

REPORT NUMBER: SCALED FROM RAB00861

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185W/BL

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, THREE WHITE CIRCUIT BOARD WITH NINETY SIX LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

LAMPS: TWO HUNDRED AND EIGHTY EIGHT LIGHT EMITTING DIODES (LEDs),

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

PAGE: 1 OF 29
DATE SAMPLE TESTED: 05/07/15

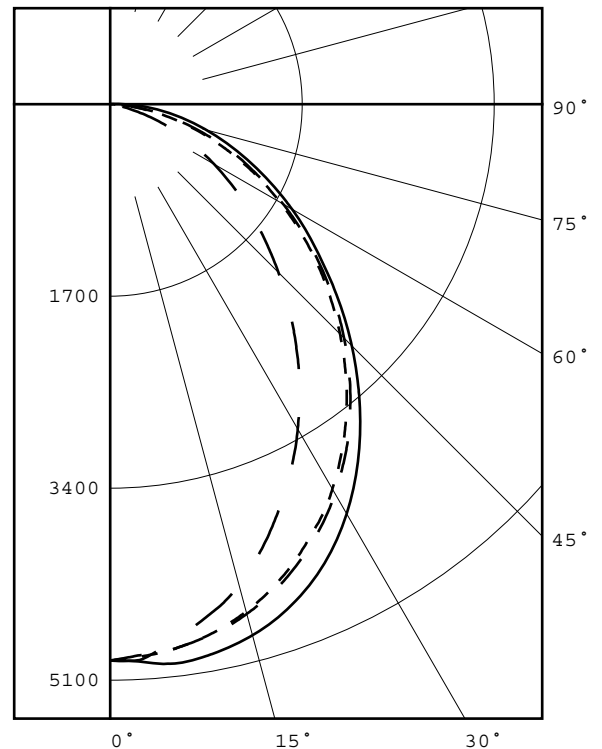
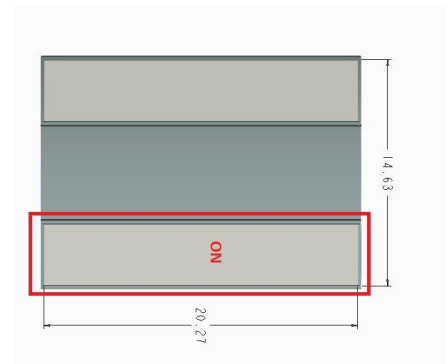
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	90.0	180.0	270.0
0	4927	4927	4927	4927
5	4881	4973	4874	4856
15	4650	4869	4673	4406
25	4210	4486	4260	3710
35	3610	3830	3662	2916
45	2878	3027	2930	2107
55	2116	2214	2153	1389
65	1371	1507	1398	760
75	689	881	716	234
85	135	348	139	5
90	9	135	13	6
95	8	17	6	6
105	8	5	6	6
115	8	5	6	6
125	8	5	5	6
135	9	5	3	6
145	9	5	3	7
155	10	6	3	7
165	10	7	3	8
175	10	8	3	8
180	7	7	7	7

FLUX

464
1309
1917
2186
2106
1757
1245
669
193
16
6
6
5
5
4
3
2
1



LEGEND:

0-deg: - - - - -
90-deg: — — — — —
180-deg: — — — — —
270-deg: — — — — —

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3690	31.0
0- 40	5877	49.4
0- 60	9739	81.9
0- 90	11846	99.6
90-120	28	0.2
90-130	33	0.3
90-150	41	0.3
90-180	47	0.4
0-180	11893	100.0

EFFICACY = 127.7 Lm/W

CIE TYPE - DIRECT

Checked X.CAO
Approved D.WANG-MUNSON

REPORT NUMBER: SCALED FROM RAB00861
ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 29
DATE SAMPLE TESTED: 05/07/15

ADDITIONAL INFORMATION

TOTAL INPUT WATTS = 93.1 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE: 28.25 FEET

DRIVER: RD-085-A1750

LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

ACCREDITED LABORATORY CODE 201058-0

LED

INDOOR, ARCHITECTURAL, COMMERCIAL DOCK, GYMNASIUM, INDUSTRIAL,
INSTITUTIONAL, MANUFACTURING, POOL, RECREATION, RETAIL, SPORTS,
DIRECT, HIGH BAY, LOW BAY, COLD STORAGE, DAMP LOCATION, WET
LOCATION

CEILING, SURFACE, SUSPENDED

5000

DLC

Luminaire test position and photometric web converted from original
test data

REPORT NUMBER: SCALED FROM RAB00861
ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

PAGE: 3 OF 29
DATE SAMPLE TESTED: 05/07/15

PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 100.6 X 91.6 DEGREES
FIELD ANGLE (10%) : 156.6 X 151.7 DEGREES

REPORT NUMBER: SCALED FROM RAB00861

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 29

DATE SAMPLE TESTED: 05/07/15

PLANE	:	0-DEG	90-DEG	180-DEG
SPACING CRITERIA	:	1.2	1.3	1.2

PAGE: 5 OF 29

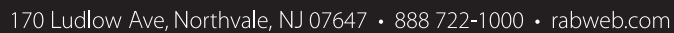
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4904	4903	4902	4899	4898	4897	4896	4894	4893	4891	4894	4896	4899	4902
5.0	4881	4881	4882	4882	4883	4883	4885	4885	4886	4886	4890	4895	4899	4904
7.5	4842	4845	4848	4850	4853	4856	4858	4861	4864	4866	4872	4878	4883	4889
10.0	4792	4797	4801	4806	4811	4815	4820	4824	4829	4833	4840	4847	4855	4862
12.5	4730	4735	4742	4748	4755	4760	4767	4773	4780	4786	4794	4801	4809	4817
15.0	4650	4658	4667	4675	4683	4692	4700	4708	4717	4725	4733	4742	4750	4759
17.5	4560	4570	4581	4590	4600	4610	4620	4630	4640	4650	4659	4668	4676	4685
20.0	4455	4467	4478	4490	4501	4513	4525	4536	4548	4559	4568	4577	4586	4595
22.5	4339	4352	4364	4377	4389	4402	4414	4427	4439	4452	4461	4470	4480	4490
25.0	4210	4223	4237	4251	4264	4279	4293	4306	4320	4334	4343	4352	4362	4377
27.5	4085	4099	4112	4125	4138	4151	4164	4178	4190	4204	4213	4222	4231	4240
30.0	3935	3949	3963	3977	3991	4005	4018	4033	4047	4060	4068	4076	4085	4093
32.5	3776	3791	3805	3819	3834	3849	3863	3877	3892	3907	3915	3922	3930	3936
35.0	3610	3624	3639	3654	3669	3685	3700	3714	3729	3744	3751	3758	3764	3771
37.5	3435	3450	3465	3481	3496	3511	3525	3541	3556	3571	3577	3582	3588	3594
40.0	3254	3269	3285	3300	3316	3331	3347	3361	3377	3392	3397	3401	3407	3412
42.5	3068	3083	3099	3113	3129	3144	3160	3175	3191	3206	3209	3212	3217	3220
45.0	2878	2892	2908	2923	2938	2954	2969	2984	2999	3014	3017	3020	3022	3025
47.5	2688	2702	2717	2732	2747	2760	2775	2790	2805	2820	2824	2828	2832	2836
50.0	2496	2511	2525	2540	2554	2568	2583	2598	2611	2626	2630	2633	2635	2639
52.5	2306	2320	2334	2348	2362	2376	2389	2404	2418	2431	2434	2436	2439	2442
55.0	2116	2130	2143	2156	2170	2183	2197	2209	2223	2237	2239	2241	2244	2246
57.5	1926	1941	1957	1972	1986	2002	2017	2032	2048	2063	2063	2063	2064	2064
60.0	1738	1753	1768	1783	1797	1811	1826	1841	1855	1870	1870	1871	1871	1871
62.5	1554	1569	1583	1597	1612	1627	1641	1655	1670	1685	1686	1686	1687	1687
65.0	1371	1385	1400	1415	1430	1443	1458	1473	1488	1503	1504	1505	1506	1507
67.5	1191	1205	1220	1235	1250	1265	1279	1294	1309	1324	1326	1327	1330	1331
70.0	1018	1032	1047	1062	1077	1093	1108	1122	1137	1152	1154	1157	1159	1161
72.5	850	865	880	895	910	924	939	954	969	984	987	990	994	997
75.0	689	703	718	732	747	762	776	790	805	820	824	829	833	838
77.5	537	551	565	578	592	606	619	633	647	660	666	672	676	682
80.0	386	400	414	428	443	456	471	485	500	513	519	525	530	536
82.5	250	264	277	290	304	316	330	344	356	370	377	384	392	398
85.0	135	147	158	171	182	194	205	217	229	240	247	254	262	269
87.5	50	59	68	76	85	94	104	112	121	130	137	142	149	155
90.0	9	14	17	22	26	30	34	39	42	47	51	57	61	66
92.5	8	8	8	8	8	9	9	9	9	9	11	14	16	18
95.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
97.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
100.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
102.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
105.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
107.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
110.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
112.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
115.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
117.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
120.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
122.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
125.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
127.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
130.0	9	9	9	9	9	8	8	8	8	8	8	8	8	8
132.5	9	9	9	9	9	8	8	8	8	8	8	8	8	8
135.0	9	9	9	9	9	8	8	8	8	8	8	8	8	8
137.5	9	9	9	9	9	8	8	8	8	8	8	8	8	8
140.0	9	9	9	9	9	8	8	8	8	8	8	8	8	8
142.5	9	9	9	9	9	8	8	8	8	8	8	8	8	8
145.0	9	9	9	9	9	9	9	9	9	9	9	9	8	8
147.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
150.0	9	9	9	9	9	9	9	9	9	9	9	9	9	9
152.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
155.0	10	10	10	10	10	9	9	9	9	9	9	9	9	9
157.5	10	10	10	10	10	9	9	9	9	9	9	9	9	9
160.0	10	10	10	10	10	9	9	9	9	9	9	9	9	9



PAGE: 6 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 03/12/13
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

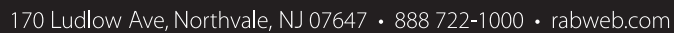
[illegible]

REPORT NUMBER: SCALED FROM RAB00861
 ISSUE DATE: 05/12/15
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 7 OF 29
 DATE SAMPLE TESTED: 05/07/15

CANDELA DISTRIBUTION

	LATERAL ANGLE													
	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4904	4906	4910	4912	4914	4919	4924	4929	4934	4939	4944	4948	4954	4959
5.0	4907	4912	4916	4921	4926	4932	4939	4945	4952	4959	4965	4971	4978	4985
7.5	4896	4902	4907	4913	4919	4927	4935	4941	4949	4957	4965	4972	4980	4988
10.0	4869	4875	4883	4890	4897	4905	4913	4922	4930	4938	4946	4955	4963	4971
12.5	4824	4832	4840	4848	4856	4865	4873	4882	4890	4899	4907	4916	4924	4934
15.0	4767	4776	4784	4794	4801	4809	4817	4827	4834	4842	4850	4860	4867	4875
17.5	4694	4704	4712	4721	4730	4738	4746	4755	4763	4771	4779	4788	4796	4804
20.0	4605	4614	4623	4632	4641	4649	4658	4666	4675	4683	4692	4700	4709	4717
22.5	4499	4508	4518	4527	4536	4544	4552	4561	4569	4577	4585	4594	4602	4610
25.0	4380	4389	4400	4409	4418	4425	4433	4439	4447	4454	4462	4469	4477	4484
27.5	4248	4257	4266	4276	4285	4292	4298	4304	4311	4318	4325	4330	4337	4344
30.0	4101	4109	4118	4126	4134	4140	4146	4151	4157	4163	4169	4174	4180	4186
32.5	3944	3951	3959	3966	3974	3978	3983	3989	3993	3998	4002	4008	4013	4017
35.0	3777	3784	3791	3797	3804	3808	3811	3816	3819	3823	3826	3830	3834	3837
37.5	3601	3606	3612	3618	3623	3626	3628	3630	3632	3635	3637	3639	3642	3644
40.0	3416	3421	3426	3431	3435	3437	3438	3439	3440	3440	3441	3442	3443	3445
42.5	3224	3227	3232	3235	3239	3239	3239	3239	3239	3240	3240	3240	3240	3240
45.0	3028	3030	3033	3036	3038	3037	3037	3036	3035	3035	3034	3033	3033	3031
47.5	2840	2844	2848	2852	2856	2853	2849	2846	2842	2838	2834	2831	2828	2824
50.0	2642	2645	2648	2651	2655	2652	2651	2649	2648	2645	2644	2642	2641	2639
52.5	2444	2446	2450	2452	2454	2452	2450	2449	2446	2444	2442	2441	2438	2436
55.0	2248	2250	2253	2255	2257	2255	2253	2252	2249	2247	2245	2244	2241	2239
57.5	2064	2064	2065	2065	2065	2063	2062	2059	2057	2056	2054	2051	2050	2048
60.0	1873	1873	1873	1874	1874	1873	1871	1869	1868	1867	1866	1863	1862	1861
62.5	1688	1688	1689	1689	1690	1689	1689	1688	1687	1687	1686	1685	1685	1684
65.0	1508	1509	1511	1512	1513	1513	1513	1513	1513	1512	1512	1512	1512	1512
67.5	1333	1334	1336	1338	1340	1341	1341	1342	1342	1343	1343	1344	1344	1346
70.0	1165	1167	1169	1171	1174	1175	1176	1177	1178	1180	1182	1183	1184	1185
72.5	1001	1004	1007	1011	1014	1015	1018	1019	1021	1022	1024	1026	1028	1029
75.0	841	846	850	855	859	862	864	866	869	872	874	877	879	881
77.5	688	693	698	703	709	713	716	718	722	725	729	731	734	738
80.0	542	548	553	559	565	568	571	576	579	583	586	591	594	598
82.5	405	412	420	427	434	437	442	445	449	453	456	460	464	468
85.0	275	282	290	297	304	308	312	316	321	324	329	334	337	341
87.5	162	167	174	180	187	191	196	200	205	208	213	217	222	227
90.0	72	76	81	87	91	96	99	104	108	112	116	121	124	129
92.5	20	23	25	27	30	33	35	39	41	44	47	50	52	56
95.0	6	6	6	6	6	7	8	8	9	10	11	11	13	14
97.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
100.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
102.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
105.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
107.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
110.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
112.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
115.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
117.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
120.0	7	7	7	7	7	7	7	6	6	6	6	5	5	5
122.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
125.0	7	7	7	7	7	7	7	6	6	6	6	5	5	5
127.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
130.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
132.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
135.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
137.5	8	8	8	8	8	8	8	7	7	7	7	6	6	6
140.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
142.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
145.0	8	8	7	7	7	7	7	7	7	6	6	6	6	6
147.5	8	8	8	8	8	8	8	8	8	7	7	7	7	7
150.0	8	8	8	8	8	8	8	8	8	7	7	7	7	7
152.5	8	8	8	8	8	8	8	8	8	7	7	7	7	7
155.0	8	8	8	8	8	8	8	8	8	7	7	7	7	7
157.5	9	9	9	9	9	9	9	8	8	8	8	7	7	7
160.0	9	9	9	9	9	9	9	8	8	8	8	7	7	7



PAGE: 8 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 03/12/13
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 9 OF 29

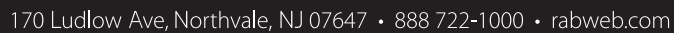
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	LATURAL ANGLE													
	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5	100.0	102.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4956	4954	4952	4949	4946	4944	4941	4939	4937	4935	4934	4931	4930	4928
5.0	4984	4982	4981	4980	4978	4977	4976	4975	4973	4971	4968	4965	4963	4960
7.5	4988	4987	4987	4987	4986	4986	4986	4985	4985	4981	4979	4976	4973	4970
10.0	4970	4969	4967	4965	4964	4963	4961	4960	4959	4956	4954	4952	4949	4948
12.5	4932	4930	4929	4928	4926	4924	4923	4921	4920	4918	4915	4914	4912	4910
15.0	4874	4874	4873	4872	4872	4871	4870	4870	4869	4867	4865	4864	4863	4861
17.5	4804	4803	4803	4803	4801	4801	4801	4800	4800	4799	4797	4796	4795	4792
20.0	4717	4716	4716	4715	4715	4714	4714	4713	4713	4712	4710	4709	4708	4706
22.5	4610	4610	4610	4610	4609	4609	4609	4609	4609	4608	4607	4606	4605	4603
25.0	4484	4484	4485	4485	4485	4485	4486	4486	4486	4486	4486	4486	4486	4486
27.5	4344	4344	4345	4345	4345	4345	4346	4346	4346	4347	4347	4348	4348	4350
30.0	4186	4187	4187	4187	4188	4188	4188	4189	4189	4190	4190	4191	4191	4192
32.5	4017	4016	4016	4016	4015	4015	4015	4014	4014	4015	4017	4018	4021	4022
35.0	3836	3836	3835	3834	3834	3833	3832	3832	3830	3833	3835	3838	3841	3843
37.5	3643	3642	3642	3640	3639	3638	3638	3637	3636	3639	3643	3646	3649	3653
40.0	3443	3442	3441	3440	3440	3439	3438	3437	3435	3440	3445	3448	3453	3457
42.5	3239	3237	3236	3235	3234	3233	3232	3231	3229	3234	3239	3244	3249	3253
45.0	3031	3030	3030	3029	3029	3028	3028	3027	3027	3031	3036	3040	3045	3048
47.5	2824	2823	2823	2822	2822	2821	2821	2820	2820	2826	2833	2840	2847	2853
50.0	2635	2633	2630	2627	2624	2622	2618	2616	2612	2619	2626	2633	2640	2647
52.5	2434	2430	2428	2425	2422	2419	2417	2413	2411	2416	2420	2425	2429	2435
55.0	2237	2233	2231	2228	2225	2222	2220	2216	2214	2219	2224	2229	2233	2239
57.5	2048	2047	2047	2047	2046	2046	2046	2044	2044	2047	2049	2052	2055	2057
60.0	1861	1861	1860	1860	1860	1860	1859	1859	1859	1863	1867	1871	1875	1879
62.5	1684	1684	1682	1682	1682	1682	1681	1681	1681	1685	1688	1692	1695	1700
65.0	1512	1511	1511	1509	1509	1508	1508	1507	1507	1511	1514	1517	1521	1525
67.5	1344	1344	1343	1342	1342	1341	1340	1340	1339	1342	1346	1349	1352	1357
70.0	1185	1184	1184	1183	1183	1182	1182	1180	1180	1184	1186	1190	1193	1195
72.5	1029	1029	1029	1029	1029	1029	1029	1029	1029	1031	1034	1036	1038	1042
75.0	881	881	881	881	881	881	881	881	881	882	884	886	888	889
77.5	738	738	738	738	738	738	738	738	738	739	740	741	742	744
80.0	598	599	599	599	600	600	600	601	601	601	602	602	603	603
82.5	469	470	470	471	472	474	474	475	476	476	476	476	476	476
85.0	343	343	344	345	345	346	347	347	348	348	348	348	348	348
87.5	228	228	229	230	230	231	232	232	233	233	233	232	232	232
90.0	130	130	131	132	132	133	134	134	135	135	134	134	133	133
92.5	56	57	57	58	58	59	59	60	60	60	59	59	58	58
95.0	14	15	15	15	16	16	16	17	17	17	16	16	16	15
97.5	5	5	5	5	3	3	3	3	3	3	3	3	3	5
100.0	5	5	5	5	3	3	3	3	3	3	3	3	3	3
102.5	5	5	5	5	3	3	3	3	3	3	3	3	3	3
105.0	6	6	6	6	5	5	5	5	5	5	5	5	5	3
107.5	5	5	5	5	3	3	3	3	3	3	3	3	3	3
110.0	6	6	6	6	5	5	5	5	5	5	5	5	5	3
112.5	6	6	6	6	5	5	5	5	5	5	5	5	5	5
115.0	6	6	6	6	5	5	5	5	5	5	5	5	5	5
117.5	6	6	6	6	5	5	5	5	5	5	5	5	5	5
120.0	5	5	5	5	5	5	5	5	5	5	5	5	5	3
122.5	6	6	6	6	5	5	5	5	5	5	5	5	5	3
125.0	5	5	5	5	5	5	5	5	5	5	5	5	5	3
127.5	6	6	6	6	5	5	5	5	5	5	5	5	5	3
130.0	6	6	6	6	5	5	5	5	5	5	5	5	5	3
132.5	6	6	6	6	5	5	5	5	5	5	5	5	5	3
135.0	6	6	6	6	5	5	5	5	5	5	5	5	5	3
137.5	6	6	6	6	5	5	5	5	5	5	5	5	5	5
140.0	6	6	6	6	5	5	5	5	5	5	5	5	5	5
142.5	6	6	6	6	5	5	5	5	5	5	5	5	5	5
145.0	6	6	6	6	5	5	5	5	5	5	5	5	5	5
147.5	7	7	7	7	6	6	6	6	6	6	6	6	6	5
150.0	7	7	7	7	6	6	6	6	6	6	6	6	6	5
152.5	7	7	7	7	6	6	6	6	6	6	6	6	6	5
155.0	7	7	7	7	6	6	6	6	6	6	6	6	6	5
157.5	7	7	7	7	6	6	6	6	6	6	6	6	6	5
160.0	7	7	7	7	7	7	7	7	7	7	7	6	6	8



PAGE: 10 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 11 OF 29

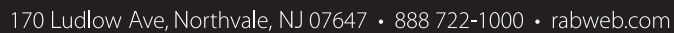
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	105.0	107.5	110.0	112.5	115.0	117.5	120.0	122.5	125.0	127.5	130.0	132.5	135.0	137.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4927	4924	4923	4921	4918	4914	4911	4907	4903	4899	4896	4893	4889	4889
5.0	4957	4955	4952	4949	4945	4939	4935	4929	4924	4919	4914	4908	4904	4902
7.5	4968	4964	4962	4959	4952	4946	4939	4932	4927	4920	4913	4907	4901	4897
10.0	4946	4944	4941	4939	4934	4928	4921	4915	4910	4904	4897	4891	4886	4881
12.5	4907	4906	4904	4902	4896	4890	4885	4879	4874	4869	4863	4857	4852	4846
15.0	4860	4858	4856	4855	4848	4842	4836	4829	4823	4816	4809	4804	4797	4791
17.5	4791	4790	4788	4787	4780	4774	4767	4760	4755	4748	4741	4735	4729	4723
20.0	4705	4704	4702	4701	4696	4690	4683	4677	4672	4666	4659	4653	4648	4641
22.5	4602	4601	4600	4599	4593	4587	4583	4577	4572	4566	4561	4556	4550	4543
25.0	4486	4486	4486	4486	4482	4476	4471	4467	4461	4457	4452	4446	4442	4435
27.5	4350	4351	4351	4352	4348	4344	4340	4336	4332	4328	4325	4320	4317	4310
30.0	4192	4194	4194	4195	4192	4190	4187	4185	4182	4180	4177	4174	4172	4166
32.5	4024	4025	4027	4029	4026	4025	4023	4022	4019	4018	4016	4015	4013	4007
35.0	3845	3849	3851	3853	3852	3852	3851	3851	3850	3850	3849	3849	3848	3843
37.5	3656	3660	3663	3667	3668	3668	3669	3670	3670	3671	3672	3672	3673	3669
40.0	3462	3465	3470	3474	3476	3479	3480	3482	3484	3487	3488	3490	3492	3489
42.5	3258	3264	3268	3273	3276	3278	3282	3285	3287	3291	3294	3297	3300	3298
45.0	3053	3058	3062	3067	3070	3075	3078	3081	3086	3089	3093	3097	3101	3100
47.5	2859	2866	2873	2880	2882	2885	2887	2889	2892	2895	2897	2899	2902	2900
50.0	2653	2660	2667	2674	2677	2680	2683	2685	2689	2691	2694	2697	2700	2700
52.5	2439	2444	2449	2453	2459	2463	2469	2475	2479	2485	2491	2495	2501	2501
55.0	2244	2248	2254	2258	2263	2268	2273	2278	2282	2287	2293	2297	2302	2302
57.5	2059	2063	2065	2067	2072	2076	2081	2085	2089	2093	2098	2102	2107	2107
60.0	1883	1887	1891	1895	1900	1904	1908	1912	1917	1922	1925	1929	1934	1934
62.5	1703	1706	1710	1713	1717	1721	1725	1729	1733	1737	1741	1745	1748	1747
65.0	1529	1532	1536	1539	1542	1546	1549	1553	1556	1560	1563	1566	1570	1569
67.5	1360	1364	1367	1371	1373	1375	1379	1381	1383	1385	1389	1391	1393	1391
70.0	1199	1202	1204	1208	1209	1210	1212	1213	1215	1216	1218	1219	1220	1218
72.5	1044	1046	1048	1051	1051	1051	1052	1052	1052	1052	1053	1053	1053	1050
75.0	891	892	895	896	896	895	895	895	894	894	894	892	892	888
77.5	746	747	748	749	748	746	744	743	741	740	739	736	735	731
80.0	604	604	606	606	603	601	599	596	594	592	590	587	585	579
82.5	476	476	476	476	472	470	467	463	461	458	454	452	449	442
85.0	348	348	348	348	345	341	337	334	330	327	322	319	315	308
87.5	232	231	231	231	228	223	220	215	212	207	204	199	196	189
90.0	132	132	131	131	127	124	120	116	113	109	105	101	98	93
92.5	57	57	56	56	54	50	48	46	42	40	38	34	32	30
95.0	15	15	14	14	13	11	10	9	9	8	7	6	5	5
97.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100.0	3	3	3	3	3	3	3	3	5	5	5	5	5	5
102.5	3	3	3	3	3	3	3	3	5	5	5	5	5	5
105.0	3	3	3	3	3	3	3	3	5	5	5	5	5	5
107.5	3	3	3	3	3	3	3	3	5	5	5	5	5	5
110.0	3	3	3	3	3	3	3	3	5	5	5	5	5	5
112.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
115.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
117.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
120.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
122.5	3	3	3	3	3	3	3	3	5	5	5	5	5	5
125.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
127.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
130.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
132.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
135.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
137.5	5	5	5	5	5	5	5	5	3	3	3	3	3	3
140.0	5	5	5	5	5	5	5	5	3	3	3	3	3	3
142.5	5	5	5	5	5	5	5	5	3	3	3	3	3	3
145.0	5	5	5	5	5	5	5	5	3	3	3	3	3	3
147.5	5	5	5	5	5	5	5	5	3	3	3	3	3	3
150.0	5	5	5	5	5	5	5	5	3	3	3	3	3	3
152.5	5	5	5	5	5	5	5	5	3	3	3	3	3	3
155.0	5	5	5	5	5	5	5	5	3	3	3	3	3	3
157.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
160.0	6	5	5	5	5	5	5	5	5	5	5	5	5	5



PAGE: 12 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 03/12/13
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 13 OF 29

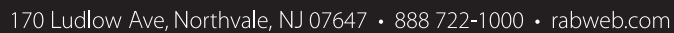
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	140.0	142.5	145.0	147.5	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4889	4889	4889	4888	4888	4888	4888	4888	4888	4889	4889	4890	4890	4891
5.0	4901	4898	4897	4895	4894	4891	4890	4888	4887	4885	4883	4882	4880	4879
7.5	4895	4891	4889	4886	4883	4880	4878	4874	4871	4867	4864	4861	4856	4853
10.0	4877	4872	4867	4864	4860	4855	4850	4846	4840	4834	4830	4824	4819	4813
12.5	4841	4836	4830	4825	4820	4814	4809	4804	4797	4790	4784	4778	4771	4764
15.0	4786	4780	4774	4770	4764	4758	4753	4747	4739	4731	4722	4714	4706	4698
17.5	4716	4710	4705	4698	4692	4687	4680	4674	4665	4656	4647	4638	4627	4618
20.0	4635	4628	4622	4616	4609	4602	4597	4590	4580	4568	4558	4546	4536	4525
22.5	4537	4531	4524	4518	4511	4504	4499	4492	4479	4467	4455	4443	4430	4418
25.0	4428	4421	4414	4406	4400	4393	4386	4379	4365	4353	4339	4326	4313	4299
27.5	4303	4296	4289	4282	4276	4269	4262	4255	4241	4227	4213	4198	4185	4170
30.0	4159	4154	4147	4141	4134	4129	4122	4116	4101	4087	4071	4056	4041	4026
32.5	4001	3997	3991	3985	3980	3975	3969	3964	3948	3933	3917	3901	3886	3870
35.0	3837	3833	3828	3823	3818	3813	3808	3803	3787	3771	3756	3741	3725	3709
37.5	3665	3661	3656	3653	3648	3644	3640	3636	3619	3603	3586	3570	3553	3537
40.0	3486	3482	3479	3475	3472	3468	3465	3462	3445	3428	3410	3393	3376	3359
42.5	3295	3292	3290	3287	3285	3282	3280	3277	3260	3243	3225	3208	3191	3174
45.0	3097	3096	3095	3093	3092	3091	3088	3087	3070	3052	3035	3018	2999	2982
47.5	2899	2898	2897	2895	2894	2892	2891	2890	2873	2856	2839	2822	2805	2788
50.0	2699	2699	2698	2698	2697	2697	2696	2696	2678	2661	2644	2627	2609	2592
52.5	2501	2501	2501	2501	2501	2501	2501	2501	2484	2467	2450	2433	2414	2397
55.0	2303	2303	2303	2304	2304	2304	2305	2305	2288	2271	2254	2237	2221	2204
57.5	2107	2107	2107	2108	2108	2108	2108	2108	2092	2075	2059	2042	2026	2009
60.0	1934	1934	1934	1933	1933	1933	1933	1933	1915	1896	1878	1860	1843	1825
62.5	1747	1746	1746	1745	1745	1744	1744	1743	1725	1707	1689	1671	1654	1636
65.0	1567	1565	1564	1563	1562	1560	1558	1557	1539	1522	1504	1487	1468	1451
67.5	1389	1386	1384	1383	1381	1379	1376	1374	1358	1343	1327	1312	1297	1282
70.0	1215	1212	1210	1207	1204	1202	1199	1196	1180	1166	1150	1134	1119	1103
72.5	1046	1043	1039	1036	1032	1029	1026	1022	1006	991	976	960	945	929
75.0	883	880	875	871	866	863	858	854	839	823	808	792	777	762
77.5	725	721	715	710	705	700	694	690	675	660	644	629	615	600
80.0	575	569	565	559	554	549	544	538	524	509	494	479	466	451
82.5	435	429	422	415	409	403	396	389	376	362	348	335	322	308
85.0	302	295	288	281	274	268	261	254	241	229	215	203	190	178
87.5	183	176	171	164	158	151	146	139	130	122	113	104	96	87
90.0	88	83	77	73	67	63	57	52	48	43	39	34	31	26
92.5	27	24	22	19	17	14	11	9	9	9	8	8	8	8
95.0	5	5	5	6	6	6	6	6	6	6	6	6	6	6
97.5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
100.0	5	5	5	6	6	6	6	6	6	6	6	6	6	6
102.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
105.0	5	5	5	5	5	5	5	5	5	5	5	5	6	6
107.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
110.0	5	5	5	5	5	5	5	5	5	5	5	5	6	6
112.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
115.0	5	5	5	5	5	5	5	5	5	5	5	5	6	6
117.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
120.0	3	3	3	5	5	5	5	5	5	5	5	5	5	5
122.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
125.0	3	3	3	3	3	3	3	3	3	3	3	3	5	5
127.5	3	3	3	3	3	3	3	3	3	3	3	3	5	5
130.0	3	3	3	3	3	3	3	3	3	3	3	3	5	5
132.5	3	3	3	3	3	3	3	3	3	3	3	3	5	5
135.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
137.5	3	3	3	3	3	3	3	3	3	3	3	3	5	5
140.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
142.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
145.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
147.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
152.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
155.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
157.5	5	5	5	3	3	3	3	3	3	3	3	3	3	3
160.0	5	5	5	3	3	3	3	3	3	3	3	3	3	3



PAGE: 14 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 09/12/19
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 15 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	LAT/Long ANGLE													
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5	200.0	202.5	205.0	207.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4891	4893	4893	4896	4898	4902	4904	4907	4910	4913	4915	4919	4920	4921
5.0	4878	4875	4874	4875	4875	4877	4878	4878	4879	4880	4880	4881	4880	4879
7.5	4849	4846	4842	4841	4840	4839	4838	4838	4837	4836	4834	4833	4830	4827
10.0	4808	4803	4797	4794	4790	4787	4783	4781	4778	4774	4771	4767	4763	4757
12.5	4758	4751	4745	4738	4732	4725	4718	4713	4706	4699	4693	4687	4679	4672
15.0	4689	4681	4673	4664	4655	4646	4636	4627	4618	4609	4600	4591	4581	4572
17.5	4609	4600	4591	4580	4567	4556	4544	4532	4520	4509	4496	4485	4472	4460
20.0	4515	4503	4493	4479	4466	4451	4437	4424	4410	4395	4381	4368	4353	4337
22.5	4406	4394	4381	4365	4348	4332	4315	4299	4282	4266	4249	4233	4216	4198
25.0	4286	4273	4260	4240	4221	4202	4182	4164	4145	4125	4106	4087	4067	4048
27.5	4156	4141	4128	4106	4084	4063	4041	4019	3998	3976	3955	3933	3911	3890
30.0	4010	3996	3981	3957	3934	3910	3886	3863	3840	3816	3793	3769	3745	3721
32.5	3854	3840	3824	3799	3774	3747	3722	3697	3672	3646	3621	3596	3570	3544
35.0	3694	3678	3662	3635	3609	3581	3554	3528	3500	3473	3447	3420	3392	3365
37.5	3520	3504	3487	3458	3430	3402	3374	3346	3317	3290	3261	3233	3204	3176
40.0	3342	3325	3308	3278	3249	3219	3190	3161	3132	3102	3072	3043	3013	2984
42.5	3155	3138	3121	3091	3060	3030	2999	2969	2938	2908	2878	2847	2817	2788
45.0	2965	2947	2930	2899	2869	2837	2806	2775	2745	2713	2682	2651	2622	2591
47.5	2771	2754	2737	2705	2674	2642	2611	2579	2549	2517	2486	2454	2425	2395
50.0	2575	2558	2541	2510	2478	2447	2417	2385	2354	2323	2291	2261	2231	2202
52.5	2380	2363	2346	2315	2285	2253	2222	2191	2161	2129	2098	2067	2039	2010
55.0	2187	2170	2153	2124	2096	2067	2039	2010	1982	1953	1925	1896	1867	1836
57.5	1993	1976	1960	1933	1904	1877	1850	1821	1794	1767	1738	1711	1682	1653
60.0	1807	1788	1770	1743	1717	1689	1662	1636	1608	1581	1555	1528	1499	1472
62.5	1618	1600	1582	1556	1530	1505	1479	1453	1426	1401	1375	1349	1323	1295
65.0	1433	1416	1398	1373	1348	1324	1299	1274	1249	1225	1200	1175	1150	1124
67.5	1266	1251	1235	1209	1184	1158	1132	1106	1080	1054	1029	1003	979	955
70.0	1087	1072	1056	1032	1007	984	958	935	910	886	861	837	814	792
72.5	913	898	882	859	837	814	791	767	744	722	699	676	656	636
75.0	747	731	716	696	675	653	633	612	592	570	550	529	510	492
77.5	584	569	554	535	517	497	478	460	441	421	403	384	367	351
80.0	436	421	406	389	372	354	337	320	303	285	268	250	237	223
82.5	295	281	268	253	238	223	208	195	180	165	150	135	126	117
85.0	164	151	139	130	120	110	100	91	81	72	61	52	48	43
87.5	77	69	60	55	49	43	38	33	27	22	16	10	9	9
90.0	22	17	13	11	11	10	9	9	8	7	7	6	6	6
92.5	7	7	7	7	7	7	7	6	6	6	6	6	6	6
95.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
97.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
100.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
102.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
105.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
107.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
110.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
112.5	6	6	6	6	6	6	6	5	5	5	5	5	5	5
115.0	6	6	6	6	6	6	6	5	5	5	5	5	5	5
117.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
120.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
122.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
125.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
127.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
130.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
132.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
135.0	3	3	3	3	3	3	3	5	5	5	5	5	5	5
137.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
140.0	3	3	3	3	3	3	3	5	5	5	5	5	5	5
142.5	3	3	3	3	3	3	3	5	5	5	5	5	5	5
145.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
147.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
152.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
155.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
157.5	3	3	3	3	3	3	3	5	5	5	5	5	5	5
160.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3



170 Ludlow Ave, Northvale, NJ 07647 • 888 722-1000 • rabweb.com

REPORT NUMBER: SCALED FROM RAB00861 PAGE: 16 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

REPORT NUMBER: SCALED FROM RAB00861

PAGE: 17 OF 29

ISSUE DATE: 05/12/15

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	210.0	212.5	215.0	217.5	220.0	222.5	225.0	227.5	230.0	232.5	235.0	237.5	240.0	242.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4922	4923	4923	4924	4926	4927	4928	4927	4926	4924	4923	4921	4920	4919
5.0	4878	4877	4877	4875	4874	4873	4872	4870	4867	4865	4863	4860	4857	4855
7.5	4822	4819	4815	4812	4807	4804	4800	4796	4792	4788	4784	4780	4776	4772
10.0	4753	4747	4742	4737	4732	4726	4722	4715	4708	4701	4694	4688	4681	4674
12.5	4664	4657	4649	4642	4634	4627	4619	4611	4602	4594	4585	4577	4568	4560
15.0	4561	4551	4542	4532	4521	4512	4502	4492	4482	4471	4461	4451	4441	4430
17.5	4447	4435	4422	4410	4397	4385	4372	4360	4348	4336	4323	4312	4299	4287
20.0	4322	4306	4292	4276	4261	4245	4230	4215	4202	4187	4172	4158	4144	4129
22.5	4181	4163	4146	4128	4111	4092	4075	4058	4042	4025	4009	3992	3976	3959
25.0	4027	4008	3989	3969	3949	3930	3910	3892	3874	3856	3837	3819	3801	3783
27.5	3867	3845	3824	3802	3779	3758	3736	3717	3697	3678	3659	3638	3619	3599
30.0	3697	3673	3648	3624	3601	3577	3553	3532	3511	3490	3470	3448	3428	3407
32.5	3519	3492	3466	3440	3415	3389	3363	3341	3319	3298	3276	3253	3232	3210
35.0	3338	3310	3282	3254	3227	3200	3173	3150	3127	3104	3081	3059	3036	3013
37.5	3147	3119	3089	3061	3033	3004	2976	2953	2929	2906	2883	2859	2837	2814
40.0	2955	2926	2896	2866	2838	2808	2779	2755	2732	2708	2684	2661	2638	2614
42.5	2757	2727	2698	2668	2638	2608	2578	2554	2532	2508	2485	2461	2438	2414
45.0	2561	2532	2501	2471	2442	2411	2381	2359	2335	2312	2288	2265	2241	2219
47.5	2364	2335	2305	2276	2245	2215	2186	2163	2140	2117	2095	2073	2050	2027
50.0	2172	2142	2112	2082	2052	2023	1993	1972	1949	1927	1904	1883	1860	1838
52.5	1981	1952	1924	1895	1866	1837	1809	1787	1766	1744	1722	1701	1679	1657
55.0	1807	1777	1746	1717	1687	1656	1627	1606	1586	1564	1544	1523	1503	1481
57.5	1624	1595	1566	1537	1508	1479	1450	1430	1410	1390	1369	1350	1330	1309
60.0	1443	1416	1388	1360	1332	1305	1276	1257	1237	1219	1200	1180	1161	1143
62.5	1269	1242	1216	1188	1162	1135	1109	1091	1072	1054	1036	1019	1001	982
65.0	1098	1072	1047	1021	996	970	945	928	912	895	878	862	845	828
67.5	931	907	883	859	836	812	788	772	757	741	725	710	694	678
70.0	770	747	725	702	680	658	635	622	608	594	581	568	554	541
72.5	616	596	576	557	536	517	496	484	470	458	444	431	418	405
75.0	472	453	435	415	396	378	359	348	338	329	319	308	298	289
77.5	334	318	301	285	268	252	234	227	219	209	201	194	186	176
80.0	209	196	183	170	156	142	129	123	117	110	105	99	93	87
82.5	107	98	89	80	69	60	51	48	44	42	39	35	32	30
85.0	39	34	28	24	19	15	10	9	9	8	8	7	7	6
87.5	8	8	7	7	6	6	5	5	5	5	5	5	5	5
90.0	6	6	5	5	5	5	5	5	5	5	5	5	5	5
92.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
95.0	6	6	5	5	5	5	5	5	5	5	5	5	5	5
97.5	6	6	5	5	5	5	5	5	5	5	5	5	5	5
100.0	6	6	5	5	5	5	5	5	5	5	5	6	6	6
102.5	6	6	5	5	5	5	5	5	5	5	5	5	5	5
105.0	5	5	5	5	3	3	3	3	3	3	3	3	5	5
107.5	5	5	5	5	3	3	3	3	3	3	3	3	5	5
110.0	5	5	5	5	3	3	3	3	3	3	3	3	5	5
112.5	5	5	3	3	3	3	3	3	3	3	3	3	5	5
115.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
117.5	5	5	3	3	3	3	3	3	3	3	3	3	5	5
120.0	5	5	3	3	3	3	3	3	3	3	3	3	5	5
122.5	5	5	3	3	3	3	3	3	3	3	3	3	5	5
125.0	5	5	3	3	3	3	3	3	3	3	3	3	5	5
127.5	5	5	3	3	3	3	3	3	3	3	3	3	5	5
130.0	5	5	3	3	3	3	3	3	3	3	3	3	5	5
132.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
135.0	5	5	5	5	5	5	5	5	5	5	5	5	6	6
137.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
140.0	5	5	5	5	5	5	5	5	5	5	5	5	6	6
142.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
145.0	3	3	5	5	5	5	5	5	5	5	5	5	6	6
147.5	3	3	5	5	5	5	5	5	5	5	5	5	6	6
150.0	3	3	5	5	5	5	5	5	5	5	5	5	6	6
152.5	3	3	5	5	5	5	5	5	5	5	5	5	6	6
155.0	5	5	5	5	6	6	6	6	6	6	6	6	6	6
157.5	5	5	5	5	5	5	5	5	5	5	5	5	6	6
160.0	3	3	5	5	5	5	5	5	5	6	6	6	6	7



170 Ludlow Ave, Northvale, NJ 07647 • 888 722-1000 • rabweb.com

PAGE: 18 OF 29

DATE SAMPLE TESTED: 05/07/15

REPORT NUMBER: SCALED FROM RAB00861
ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 19 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	LATERAL ANGLE													
	245.0	247.5	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5	275.0	277.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4918	4916	4919	4920	4922	4924	4926	4928	4930	4931	4934	4935	4935	4936
5.0	4853	4850	4852	4852	4853	4853	4854	4854	4855	4855	4856	4857	4858	4858
7.5	4768	4764	4763	4763	4762	4762	4760	4760	4759	4758	4758	4757	4759	4760
10.0	4667	4660	4659	4657	4656	4655	4652	4651	4650	4648	4647	4649	4651	4653
12.5	4551	4543	4543	4543	4543	4543	4542	4542	4542	4542	4542	4544	4546	4548
15.0	4420	4410	4410	4409	4409	4409	4408	4408	4408	4406	4406	4409	4412	4414
17.5	4276	4263	4262	4260	4258	4256	4255	4253	4252	4249	4248	4252	4254	4257
20.0	4115	4100	4098	4096	4092	4090	4088	4085	4082	4080	4077	4080	4083	4085
22.5	3943	3926	3923	3919	3916	3912	3909	3906	3902	3899	3895	3900	3904	3908
25.0	3764	3746	3742	3738	3734	3730	3726	3722	3718	3714	3710	3714	3720	3725
27.5	3580	3561	3556	3552	3547	3542	3539	3535	3530	3525	3521	3525	3530	3536
30.0	3385	3365	3360	3356	3351	3347	3341	3336	3332	3327	3323	3327	3333	3338
32.5	3188	3167	3161	3157	3151	3145	3141	3135	3129	3125	3119	3125	3130	3136
35.0	2990	2968	2962	2956	2951	2945	2939	2933	2928	2922	2916	2923	2929	2936
37.5	2790	2767	2760	2754	2747	2740	2734	2727	2721	2714	2707	2714	2722	2729
40.0	2591	2567	2560	2552	2545	2538	2531	2524	2517	2509	2502	2510	2518	2525
42.5	2392	2368	2361	2353	2346	2338	2331	2323	2317	2309	2302	2310	2318	2324
45.0	2195	2172	2165	2157	2150	2143	2136	2129	2122	2114	2107	2115	2123	2130
47.5	2005	1982	1975	1967	1960	1952	1945	1937	1931	1923	1916	1924	1932	1939
50.0	1816	1794	1787	1780	1775	1768	1761	1754	1748	1742	1735	1742	1750	1756
52.5	1636	1614	1608	1602	1596	1590	1583	1578	1572	1565	1560	1566	1573	1580
55.0	1460	1440	1434	1429	1423	1417	1412	1406	1400	1394	1389	1394	1401	1407
57.5	1290	1269	1264	1259	1253	1248	1243	1237	1232	1227	1221	1227	1234	1240
60.0	1124	1104	1100	1095	1091	1086	1080	1076	1071	1067	1062	1068	1073	1079
62.5	964	946	941	938	933	930	925	922	917	914	910	916	923	930
65.0	812	795	791	787	783	780	775	772	768	764	760	766	773	779
67.5	664	648	644	641	636	633	629	626	622	618	615	620	626	632
70.0	527	513	510	507	503	500	496	493	489	486	483	488	494	499
72.5	392	379	376	373	370	367	364	361	357	355	352	356	362	367
75.0	279	269	265	261	257	254	249	246	242	238	234	239	244	247
77.5	168	161	157	155	151	148	146	142	139	137	133	137	140	143
80.0	81	75	73	71	69	67	65	63	61	59	57	59	61	64
82.5	26	23	22	20	19	18	18	17	16	15	14	15	16	17
85.0	6	5	5	5	5	5	5	5	5	5	5	5	5	5
87.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
90.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
92.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
95.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
97.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
100.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
102.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
105.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
107.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
110.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
112.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
115.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
117.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
120.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
122.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
125.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
127.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
130.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
132.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
135.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
137.5	6	6	6	6	6	6	6	7	7	7	7	7	7	7
140.0	6	6	6	6	6	6	6	7	7	7	7	7	7	7
142.5	6	6	6	6	6	6	6	7	7	7	7	7	7	7
145.0	6	6	6	6	6	6	6	7	7	7	7	7	7	7
147.5	6	6	6	6	6	6	6	7	7	7	7	7	7	7
150.0	6	6	6	6	6	6	6	7	7	7	7	7	7	7
152.5	6	6	6	6	6	6	6	7	7	7	7	7	7	7
155.0	6	6	6	6	6	6	6	7	7	7	7	7	7	7
157.5	6	6	6	6	6	6	6	7	7	7	7	7	7	7
160.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7

PAGE: 20 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

REPORT NUMBER: SCALED FROM RAB00861

PAGE: 21 OF 29

ISSUE DATE: 05/12/15

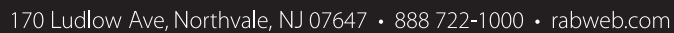
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5	300.0	302.5	305.0	307.5	310.0	312.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4937	4937	4938	4939	4939	4940	4939	4939	4938	4938	4937	4937	4936	4936
5.0	4860	4861	4862	4862	4863	4864	4865	4866	4867	4869	4871	4872	4873	4874
7.5	4764	4766	4767	4770	4771	4773	4776	4779	4782	4786	4788	4791	4795	4797
10.0	4656	4657	4659	4661	4664	4666	4671	4676	4681	4687	4691	4697	4701	4707
12.5	4550	4552	4554	4556	4558	4560	4565	4570	4575	4581	4585	4591	4595	4601
15.0	4418	4420	4424	4426	4429	4432	4437	4443	4449	4454	4461	4467	4472	4478
17.5	4260	4263	4265	4269	4271	4274	4282	4292	4299	4309	4317	4326	4334	4343
20.0	4089	4091	4095	4097	4100	4103	4114	4124	4136	4147	4157	4169	4180	4190
22.5	3912	3917	3922	3925	3930	3934	3948	3961	3975	3989	4002	4016	4030	4043
25.0	3729	3735	3739	3744	3750	3754	3769	3785	3800	3816	3830	3846	3861	3877
27.5	3540	3545	3549	3555	3560	3564	3581	3598	3615	3632	3649	3667	3684	3701
30.0	3342	3348	3352	3357	3363	3367	3385	3405	3423	3442	3461	3480	3498	3517
32.5	3142	3147	3153	3159	3165	3170	3191	3210	3231	3251	3270	3291	3311	3331
35.0	2941	2948	2954	2961	2966	2973	2995	3015	3037	3059	3079	3101	3122	3143
37.5	2735	2743	2750	2757	2765	2772	2793	2816	2838	2859	2882	2904	2926	2948
40.0	2533	2541	2549	2556	2564	2571	2594	2616	2639	2660	2683	2705	2727	2749
42.5	2332	2340	2348	2355	2363	2371	2393	2416	2437	2460	2482	2504	2526	2549
45.0	2138	2146	2154	2161	2169	2176	2198	2221	2243	2264	2287	2309	2330	2353
47.5	1947	1955	1962	1969	1977	1985	2007	2030	2051	2073	2096	2117	2139	2162
50.0	1763	1771	1778	1785	1793	1800	1821	1843	1865	1886	1909	1931	1952	1974
52.5	1587	1593	1599	1606	1613	1620	1641	1662	1684	1704	1726	1746	1768	1788
55.0	1414	1419	1426	1432	1439	1445	1465	1486	1506	1527	1546	1566	1587	1607
57.5	1245	1252	1258	1264	1270	1276	1295	1315	1335	1355	1374	1393	1414	1433
60.0	1085	1089	1095	1101	1106	1112	1130	1149	1168	1186	1204	1223	1242	1260
62.5	937	943	949	956	963	970	986	1002	1018	1034	1050	1065	1081	1097
65.0	784	791	797	803	809	815	830	845	861	875	890	905	921	936
67.5	637	644	650	656	661	667	681	696	709	724	738	752	766	781
70.0	504	510	516	520	526	532	544	557	569	582	593	606	618	631
72.5	372	377	382	387	393	397	409	421	433	445	456	469	480	493
75.0	252	256	261	264	269	273	283	294	304	314	326	336	346	356
77.5	147	150	154	157	161	164	172	181	189	198	206	215	223	232
80.0	66	69	72	74	76	79	84	90	97	102	108	114	121	126
82.5	18	19	20	22	23	24	27	31	33	36	40	43	46	49
85.0	5	6	6	6	6	6	7	7	8	8	9	9	10	10
87.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7
90.0	6	6	6	6	6	6	6	6	6	6	7	7	7	7
92.5	6	7	7	7	7	7	7	7	7	7	7	7	7	7
95.0	6	6	6	6	6	6	6	6	6	6	7	7	7	7
97.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
100.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
102.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
105.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
107.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
110.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
112.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
115.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
117.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
120.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
122.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
125.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
127.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
130.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
132.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8
135.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8
137.5	7	8	8	8	8	8	8	8	8	8	9	9	9	9
140.0	7	8	8	8	8	8	8	8	8	8	8	8	8	8
142.5	7	8	8	8	8	8	8	8	8	8	9	9	9	9
145.0	7	8	8	8	8	8	8	8	8	8	8	8	8	8
147.5	7	8	8	8	8	8	8	8	8	8	9	9	9	9
150.0	7	8	8	8	8	8	8	8	8	8	9	9	9	9
152.5	7	8	8	8	8	8	8	8	8	8	9	9	9	9
155.0	7	8	8	8	8	8	8	8	8	8	9	9	9	9
157.5	7	8	8	8	8	8	8	8	8	8	9	9	9	9
160.0	7	8	8	8	8	8	8	8	8	8	9	9	9	9



PAGE: 22 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 09/12/19
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 23 OF 29

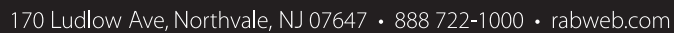
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	315.0	317.5	320.0	322.5	325.0	327.5	330.0	332.5	335.0	337.5	340.0	342.5	345.0	347.5
0.0	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927	4927
2.5	4935	4934	4934	4932	4932	4931	4931	4930	4930	4929	4927	4923	4921	4918
5.0	4875	4877	4878	4879	4880	4882	4883	4885	4886	4887	4886	4886	4885	4885
7.5	4800	4804	4808	4812	4815	4820	4823	4827	4831	4834	4836	4837	4837	4838
10.0	4712	4717	4723	4729	4734	4739	4745	4750	4756	4762	4765	4768	4772	4775
12.5	4606	4614	4622	4630	4638	4644	4652	4660	4668	4676	4682	4688	4694	4700
15.0	4484	4494	4504	4515	4525	4536	4546	4557	4567	4577	4585	4593	4601	4609
17.5	4351	4363	4376	4389	4402	4414	4427	4441	4453	4466	4476	4486	4498	4508
20.0	4202	4218	4233	4248	4264	4280	4296	4311	4327	4343	4355	4368	4380	4393
22.5	4057	4074	4090	4107	4123	4140	4156	4173	4189	4206	4221	4236	4251	4265
25.0	3892	3910	3928	3948	3966	3984	4002	4022	4040	4058	4075	4092	4108	4125
27.5	3718	3738	3760	3780	3801	3823	3843	3863	3885	3906	3926	3945	3966	3985
30.0	3536	3558	3581	3604	3627	3649	3672	3695	3718	3741	3762	3784	3805	3827
32.5	3351	3375	3399	3424	3448	3472	3496	3521	3545	3569	3591	3614	3638	3661
35.0	3165	3190	3215	3240	3265	3291	3316	3341	3366	3391	3415	3440	3464	3488
37.5	2970	2996	3022	3048	3075	3102	3128	3154	3180	3207	3232	3258	3283	3308
40.0	2772	2799	2826	2853	2880	2907	2935	2961	2988	3015	3042	3069	3095	3121
42.5	2570	2599	2626	2655	2682	2710	2738	2766	2793	2822	2849	2877	2904	2931
45.0	2375	2403	2431	2459	2487	2516	2544	2571	2600	2628	2656	2684	2712	2739
47.5	2183	2212	2240	2268	2296	2324	2353	2380	2409	2437	2464	2493	2520	2549
50.0	1995	2024	2051	2080	2107	2136	2163	2191	2219	2247	2274	2303	2330	2357
52.5	1810	1837	1865	1892	1919	1947	1974	2001	2029	2056	2083	2112	2139	2167
55.0	1628	1654	1681	1707	1735	1761	1788	1814	1842	1868	1895	1923	1951	1978
57.5	1453	1480	1508	1536	1563	1591	1619	1646	1674	1702	1727	1752	1777	1802
60.0	1278	1305	1332	1358	1384	1412	1438	1464	1491	1517	1542	1566	1591	1615
62.5	1113	1138	1163	1190	1215	1240	1265	1291	1316	1341	1365	1389	1412	1435
65.0	951	974	998	1023	1047	1071	1095	1120	1144	1168	1191	1213	1235	1258
67.5	795	817	840	863	886	908	931	954	977	999	1021	1042	1063	1085
70.0	643	665	686	707	729	750	772	792	814	836	856	877	896	916
72.5	504	524	543	562	582	600	619	639	658	677	697	716	735	755
75.0	367	385	403	421	439	459	477	495	513	532	549	567	584	601
77.5	240	256	273	289	305	322	338	354	371	387	404	420	437	454
80.0	132	146	159	173	187	199	213	227	240	254	269	283	298	313
82.5	52	61	72	81	91	100	110	120	130	139	151	164	176	189
85.0	11	16	20	25	30	34	39	43	48	52	61	71	80	89
87.5	7	7	8	8	8	9	9	9	10	10	15	19	24	28
90.0	7	7	7	7	7	7	7	7	7	7	7	7	8	8
92.5	7	7	7	7	7	7	8	8	8	8	8	8	8	8
95.0	7	7	7	7	7	7	8	8	8	8	8	8	8	8
97.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
100.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
102.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
105.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
107.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
110.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
112.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
115.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
117.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
120.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
122.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
125.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
127.5	8	8	8	8	8	9	9	9	9	9	9	9	9	9
130.0	8	8	8	8	8	9	9	9	9	9	9	9	9	9
132.5	8	8	8	8	8	9	9	9	9	9	9	9	9	9
135.0	8	8	8	8	8	9	9	9	9	9	9	9	9	9
137.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
140.0	8	8	8	8	8	9	9	9	9	9	9	9	9	9
142.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
145.0	8	8	8	8	8	9	9	9	9	9	9	9	9	9
147.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
150.0	9	9	9	9	9	9	9	9	9	9	9	9	9	9
152.5	9	9	9	9	9	9	9	9	9	9	9	9	9	9
155.0	9	9	9	9	9	10	10	10	10	10	10	10	10	10
157.5	9	9	9	9	9	10	10	10	10	10	10	10	10	10
160.0	9	9	9	9	9	10	10	10	10	10	10	10	10	10



PAGE: 24 OF 29

DATE SAMPLE TESTED: 05/07/15

ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

REPORT NUMBER: SCALED FROM RAB00861
 ISSUE DATE: 05/12/15
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 25 OF 29
 DATE SAMPLE TESTED: 05/07/15

CANDELA DISTRIBUTION LATERAL ANGLE

	350.0	352.5	355.0	357.5	360.0
0.0	4927	4927	4927	4927	4927
2.5	4915	4912	4910	4906	4904
5.0	4883	4883	4882	4882	4881
7.5	4839	4840	4840	4841	4842
10.0	4779	4782	4786	4789	4792
12.5	4706	4712	4718	4724	4730
15.0	4618	4626	4634	4642	4650
17.5	4518	4528	4540	4550	4560
20.0	4405	4418	4430	4443	4455
22.5	4280	4295	4310	4325	4339
25.0	4142	4159	4175	4192	4210
27.5	4006	4025	4046	4065	4085
30.0	3849	3870	3892	3914	3935
32.5	3684	3706	3730	3753	3776
35.0	3513	3537	3561	3586	3610
37.5	3334	3359	3384	3410	3435
40.0	3149	3175	3201	3228	3254
42.5	2959	2986	3013	3040	3068
45.0	2767	2795	2822	2850	2878
47.5	2576	2604	2632	2660	2688
50.0	2386	2413	2441	2469	2496
52.5	2195	2223	2250	2279	2306
55.0	2006	2033	2062	2089	2116
57.5	1826	1851	1876	1901	1926
60.0	1640	1664	1689	1713	1738
62.5	1459	1483	1506	1530	1554
65.0	1281	1303	1325	1348	1371
67.5	1105	1127	1149	1169	1191
70.0	937	957	977	997	1018
72.5	773	792	812	831	850
75.0	619	636	653	672	689
77.5	470	487	504	520	537
80.0	327	341	356	371	386
82.5	200	213	225	238	250
85.0	99	108	117	126	135
87.5	32	36	41	46	50
90.0	8	8	9	9	9
92.5	8	8	8	8	8
95.0	8	8	8	8	8
97.5	8	8	8	8	8
100.0	8	8	8	8	8
102.5	8	8	8	8	8
105.0	8	8	8	8	8
107.5	8	8	8	8	8
110.0	8	8	8	8	8
112.5	8	8	8	8	8
115.0	8	8	8	8	8
117.5	8	8	8	8	8
120.0	8	8	8	8	8
122.5	8	8	8	8	8
125.0	8	8	8	8	8
127.5	8	8	8	8	8
130.0	9	9	9	9	9
132.5	9	9	9	9	9
135.0	9	9	9	9	9
137.5	9	9	9	9	9
140.0	9	9	9	9	9
142.5	9	9	9	9	9
145.0	9	9	9	9	9
147.5	9	9	9	9	9
150.0	9	9	9	9	9
152.5	9	9	9	9	9
155.0	10	10	10	10	10
157.5	10	10	10	10	10
160.0	10	10	10	10	10

REPORT NUMBER: SCALED FROM RAB00861

PAGE: 26 OF 29

ISSUE DATE: 05/12/15

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	350.0	352.5	355.0	357.5	360.0
162.5	10	10	10	10	10
165.0	10	10	10	10	10
167.5	10	10	10	10	10
170.0	10	10	10	10	10
172.5	10	10	10	10	10
175.0	10	10	10	10	10
177.5	10	10	10	10	10
180.0	7	7	7	7	7

REPORT NUMBER: SCALED FROM RAB00861
 ISSUE DATE: 05/12/15
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 27 OF 29
 DATE SAMPLE TESTED: 05/07/15

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	117
5- 10	347
10- 15	561
15- 20	749
20- 25	902
25- 30	1015
30- 35	1082
35- 40	1104
40- 45	1082
45- 50	1024
50- 55	934
55- 60	822
60- 65	693
65- 70	552
70- 75	406
75- 80	263
80- 85	139
85- 90	54
90- 95	13
95-100	3
100-105	3
105-110	3
110-115	3
115-120	3
120-125	3
125-130	2
130-135	2
135-140	2
140-145	2
145-150	2
150-155	2
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	464
0- 20	1774
0- 30	3690
0- 40	5877
0- 50	7983
0- 60	9739
0- 70	10985
0- 80	11653
0- 90	11846
0-100	11862
0-110	11868
0-120	11874
0-130	11879
0-140	11884
0-150	11887
0-160	11890
0-170	11892
0-180	11893

REPORT NUMBER: SCALED FROM RAB00861
ISSUE DATE: 05/12/15

PAGE: 28 OF 29
DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	74	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

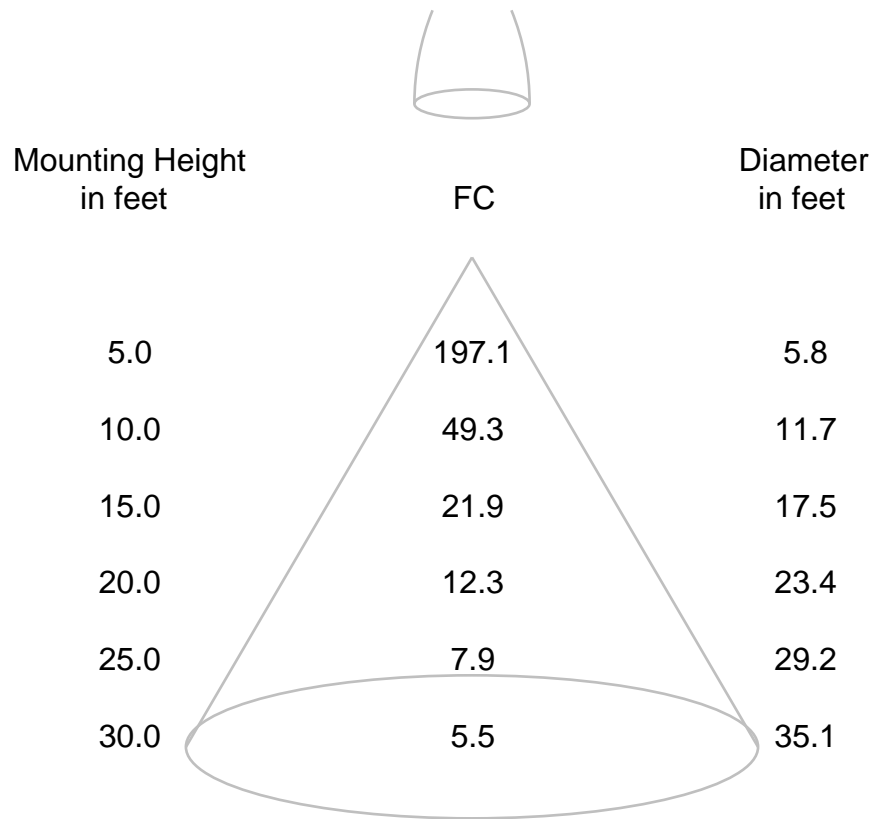
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

REPORT NUMBER: SCALED FROM RAB00861
ISSUE DATE: 05/12/15
PREPARED FOR: RAB LIGHTING INC.

PAGE: 29 OF 29
DATE SAMPLE TESTED: 05/07/15

CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.