

REPORT NUMBER: SCALED FROM RAB00858

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ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150NW/BL

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

LAMPS: ONE HUNDRED AND NINETY TWO LIGHT EMITTING DIODES (LEDs).

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 74.2 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	90.0	180.0	270.0	FLUX
0	3282	3282	3282	3282	
5	3264	3291	3261	3233	309
15	3110	3200	3127	2954	872
25	2804	2921	2844	2507	1275
35	2374	2471	2444	1990	1452
45	1864	1942	1949	1463	1395
55	1345	1415	1420	982	1156
65	866	946	917	550	812
75	428	542	460	180	429
85	72	196	87	0	113
90	1	65	1	0	
95	0	0	0	0	4
105	1	0	0	0	0
115	1	0	0	0	0
125	1	0	0	0	0
135	1	0	0	0	0
145	2	0	0	0	0
155	2	0	0	1	0
165	2	1	0	1	0
175	2	1	0	1	0
180	1	1	1	1	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2456	31.4
0- 40	3908	50.0
0- 60	6459	82.6
0- 90	7812	99.9
90-120	5	0.1
90-130	5	0.1
90-150	5	0.1
90-180	6	0.1
0-180	7818	100.0

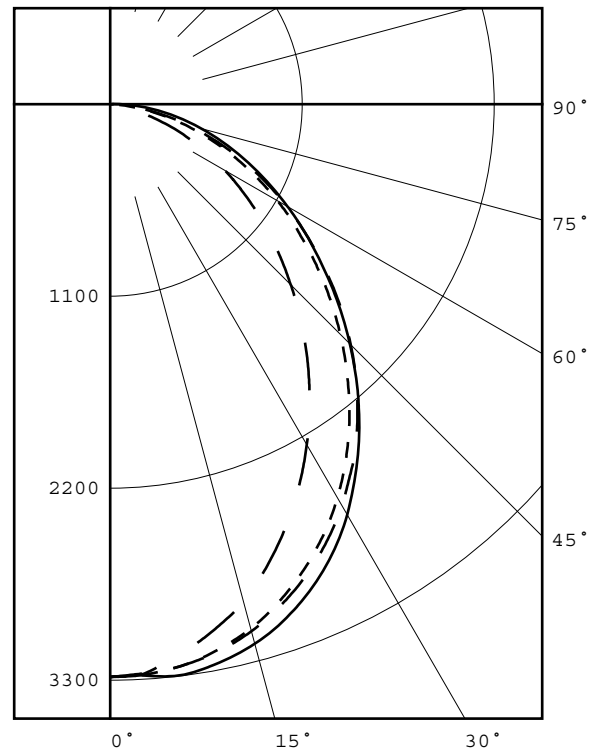
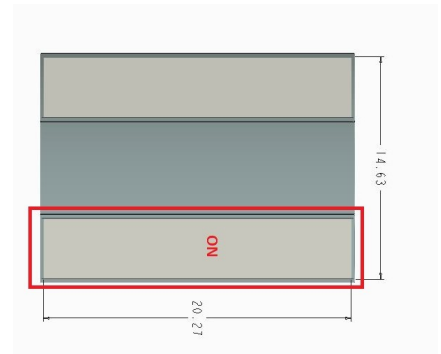
TOTAL INPUT WATTS = 74.2

EFFICACY = 105.4 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.2 1.2



LEGEND:
 0-deg: - - - - -
 90-deg: _____
 180-deg: - - - - -
 270-deg: _____

Checked X.CAO
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET
DRIVER: RD-075-A1400
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
4000
DLC

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5
0.0	3282	3282	3282	3282	3282	3282	3282	3282
5.0	3264	3270	3279	3289	3291	3284	3271	3265
10.0	3206	3230	3254	3271	3273	3267	3250	3235
15.0	3110	3154	3180	3193	3200	3197	3185	3163
20.0	2973	3034	3062	3081	3083	3089	3077	3060
25.0	2804	2877	2906	2921	2921	2934	2932	2916
30.0	2604	2683	2709	2718	2715	2735	2743	2735
35.0	2374	2458	2480	2480	2471	2498	2516	2518
40.0	2124	2211	2227	2219	2213	2243	2271	2279
45.0	1864	1952	1963	1952	1942	1977	2008	2025
50.0	1604	1690	1698	1686	1674	1706	1740	1759
55.0	1345	1427	1437	1425	1415	1445	1477	1493
60.0	1107	1175	1186	1182	1175	1200	1223	1231
65.0	866	935	950	954	946	971	985	984
70.0	638	708	733	742	739	766	761	750
75.0	428	493	524	544	542	554	550	524
80.0	233	299	346	370	363	371	359	324
85.0	72	135	166	198	196	201	180	146
90.0	1	21	43	64	65	65	46	23
95.0	0	0	0	1	0	0	0	0
100.0	1	0	0	0	0	0	0	0
105.0	1	0	0	0	0	0	0	0
110.0	1	0	0	0	0	0	0	0
115.0	1	0	0	0	0	0	0	0
120.0	1	1	0	0	0	0	0	0
125.0	1	1	0	0	0	0	0	0
130.0	1	1	0	0	0	0	0	0
135.0	1	1	0	0	0	0	0	0
140.0	1	1	1	0	0	0	0	0
145.0	2	1	1	0	0	0	0	0
150.0	2	2	1	0	0	0	0	0
155.0	2	2	1	1	0	0	0	0
160.0	2	2	1	1	0	0	0	0
165.0	2	2	2	1	1	0	0	0
170.0	2	2	2	1	1	0	0	0
175.0	2	2	2	2	1	0	0	0
180.0	1	1	1	1	1	1	1	1

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CANDELA DISTRIBUTION

	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
0.0	3282	3282	3282	3282	3282	3282	3282	3282
5.0	3261	3258	3246	3232	3233	3231	3249	3267
10.0	3213	3188	3152	3118	3104	3111	3147	3188
15.0	3127	3079	3015	2964	2954	2959	3003	3066
20.0	3000	2929	2837	2764	2740	2750	2814	2905
25.0	2844	2752	2643	2551	2507	2525	2603	2713
30.0	2656	2543	2414	2309	2253	2278	2376	2494
35.0	2444	2321	2165	2052	1990	2022	2127	2255
40.0	2202	2073	1906	1788	1724	1765	1863	1994
45.0	1949	1810	1644	1528	1463	1504	1596	1742
50.0	1686	1549	1384	1274	1216	1253	1342	1483
55.0	1420	1289	1132	1031	982	1011	1094	1227
60.0	1165	1037	894	804	761	787	860	983
65.0	917	797	670	590	550	575	640	751
70.0	680	571	463	393	356	380	439	531
75.0	460	363	265	210	180	200	248	332
80.0	253	175	102	67	50	62	91	155
85.0	87	36	7	0	0	0	6	29
90.0	1	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	1
105.0	0	0	0	0	0	0	0	1
110.0	0	0	0	0	0	0	1	1
115.0	0	0	0	0	0	0	0	1
120.0	0	0	0	0	0	0	1	1
125.0	0	0	0	0	0	0	1	1
130.0	0	0	0	0	0	0	1	1
135.0	0	0	0	0	0	0	1	1
140.0	0	0	0	0	0	1	1	1
145.0	0	0	0	0	0	1	1	2
150.0	0	0	0	0	0	1	2	2
155.0	0	0	0	0	1	1	2	2
160.0	0	0	0	0	0	1	2	2
165.0	0	0	0	0	1	1	2	2
170.0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	1	1	2	2
180.0	1	1	1	1	1	1	1	1

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ZONAL LUMEN SUMMARY

0- 5	78.
5- 10	231.
10- 15	374.
15- 20	498.
20- 25	600.
25- 30	675.
30- 35	719.
35- 40	733.
40- 45	717.
45- 50	677.
50- 55	616.
55- 60	540.
60- 65	453.
65- 70	359.
70- 75	262.
75- 80	167.
80- 85	84.
85- 90	29.
90- 95	4.
95-100	0.
100-105	0.
105-110	0.
110-115	0.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	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.