

REPORT NUMBER: RAB00861

ISSUE DATE: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185YNW/BL

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, THREE WHITE CIRCUIT BOARD WITH NINETY THREE 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), DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT

(SEE PAGE 2 FOR MORE INFORMATION)

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CANDELA DISTRIBUTION

	0.0	90.0	180.0	270.0	FLUX
0	4326	4326	4326	4326	
5	4282	4266	4288	4369	408
15	4105	3871	4085	4277	1150
25	3742	3259	3698	3941	1684
35	3217	2562	3171	3365	1921
45	2574	1851	2528	2659	1850
55	1891	1220	1859	1945	1543
65	1228	668	1204	1324	1094
75	629	206	605	774	587
85	122	4	119	306	169
90	11	5	8	119	
95	5	5	7	15	14
105	5	5	7	4	5
115	5	5	7	4	5
125	4	5	7	4	4
135	3	5	8	4	4
145	3	6	8	4	3
155	3	6	9	5	3
165	3	7	9	6	2
175	3	7	9	7	1
180	6	6	6	6	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3242	31.0
0- 40	5162	49.4
0- 60	8556	81.9
0- 90	10407	99.6
90-120	24	0.2
90-130	29	0.3
90-150	36	0.3
90-180	41	0.4
0-180	10448	100.0

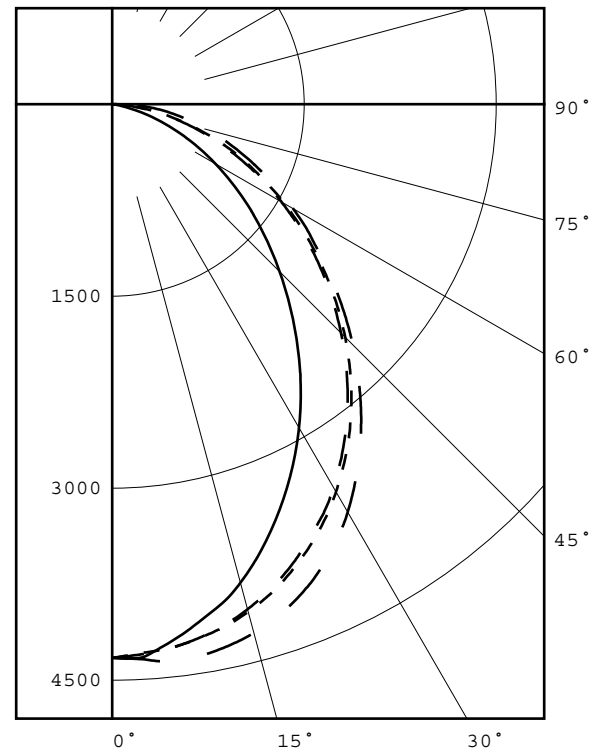
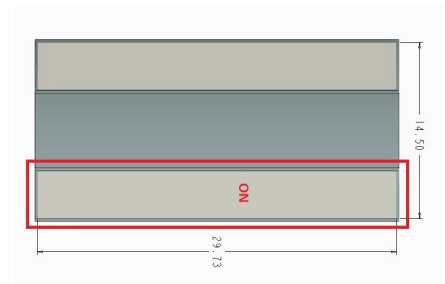
TOTAL INPUT WATTS = 93.1

EFFICACY = 112.2 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.0 1.2



LEGEND:

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

Checked

X.CAO

Approved

D.WANG-MUNSON

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ADDITIONAL INFORMATION

DRIVER: RD-085-A1750

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5
0.0	4326	4326	4326	4326	4326	4326	4326	4326
5.0	4282	4288	4280	4261	4266	4273	4283	4293
10.0	4214	4188	4148	4094	4082	4099	4139	4183
15.0	4105	4033	3955	3874	3871	3893	3939	4021
20.0	3947	3837	3716	3602	3582	3604	3691	3815
25.0	3742	3590	3435	3291	3259	3298	3419	3565
30.0	3497	3311	3121	2956	2919	2958	3106	3286
35.0	3217	3004	2787	2607	2562	2612	2780	2979
40.0	2906	2673	2441	2255	2198	2259	2435	2649
45.0	2574	2329	2092	1908	1851	1912	2086	2309
50.0	2232	1987	1751	1576	1524	1581	1753	1974
55.0	1891	1666	1429	1265	1220	1269	1430	1641
60.0	1555	1342	1121	970	933	977	1123	1334
65.0	1228	1032	830	698	668	716	835	1026
70.0	928	735	558	451	424	467	565	734
75.0	629	465	315	236	206	240	322	467
80.0	357	220	113	66	50	69	116	223
85.0	122	46	9	4	4	5	10	46
90.0	11	5	4	4	5	5	6	6
95.0	5	5	4	4	5	5	6	7
100.0	5	5	4	5	5	6	7	7
105.0	5	5	3	4	5	6	7	7
110.0	5	5	3	4	5	6	7	7
115.0	5	4	4	4	5	6	7	7
120.0	4	4	3	4	5	6	7	7
125.0	4	4	3	4	5	6	7	7
130.0	4	4	3	4	5	6	7	8
135.0	3	4	4	5	5	6	7	8
140.0	3	4	4	5	6	7	7	8
145.0	3	3	4	5	6	7	7	8
150.0	3	3	4	5	6	7	8	8
155.0	3	3	5	5	6	7	8	9
160.0	3	3	4	6	6	7	8	9
165.0	3	3	4	5	7	7	8	9
170.0	2	3	4	5	7	7	8	9
175.0	3	3	4	6	7	8	8	9
180.0	6	6	6	6	6	6	6	6

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CANDELA DISTRIBUTION

	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
0.0	4326	4326	4326	4326	4326	4326	4326	4326
5.0	4288	4292	4327	4379	4369	4348	4308	4294
10.0	4210	4246	4302	4367	4356	4339	4292	4257
15.0	4085	4151	4218	4283	4277	4265	4214	4170
20.0	3914	4005	4077	4144	4140	4130	4083	4032
25.0	3698	3807	3881	3939	3941	3941	3902	3847
30.0	3457	3567	3632	3677	3680	3685	3665	3616
35.0	3171	3289	3342	3371	3365	3385	3380	3341
40.0	2859	2980	3018	3026	3018	3052	3068	3041
45.0	2528	2648	2669	2663	2659	2694	2724	2712
50.0	2193	2307	2332	2318	2295	2349	2372	2368
55.0	1859	1965	1983	1967	1945	1984	2022	2025
60.0	1527	1643	1646	1635	1633	1665	1699	1698
65.0	1204	1320	1329	1328	1324	1352	1379	1368
70.0	894	1012	1031	1041	1037	1061	1072	1051
75.0	605	720	755	774	774	787	784	750
80.0	339	451	496	525	528	532	514	473
85.0	119	211	267	300	306	306	277	223
90.0	8	41	80	113	119	115	86	46
95.0	7	6	5	12	15	12	4	5
100.0	7	6	5	4	3	3	4	5
105.0	7	7	6	5	4	3	4	4
110.0	7	7	6	5	4	3	4	4
115.0	7	7	6	5	4	4	4	4
120.0	7	6	6	4	4	3	3	4
125.0	7	7	6	4	4	3	3	3
130.0	8	7	6	5	4	3	3	3
135.0	8	7	6	5	4	3	3	3
140.0	8	7	6	5	4	4	3	3
145.0	8	8	6	5	4	4	3	3
150.0	8	8	7	6	5	4	3	3
155.0	9	8	7	6	5	4	3	3
160.0	9	8	8	6	6	4	4	3
165.0	9	9	8	7	6	5	4	3
170.0	9	9	8	7	6	5	4	3
175.0	9	9	8	8	7	5	4	3
180.0	6	6	6	6	6	6	6	6

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ZONAL LUMEN SUMMARY

0- 5	103.
5- 10	305.
10- 15	493.
15- 20	658.
20- 25	792.
25- 30	891.
30- 35	951.
35- 40	970.
40- 45	951.
45- 50	899.
50- 55	821.
55- 60	722.
60- 65	609.
65- 70	485.
70- 75	356.
75- 80	231.
80- 85	122.
85- 90	47.
90- 95	11.
95-100	3.
100-105	3.
105-110	3.
110-115	3.
115-120	2.
120-125	2.
125-130	2.
130-135	2.
135-140	2.
140-145	2.
145-150	2.
150-155	1.
155-160	1.
160-165	1.
165-170	1.
170-175	0.
175-180	0.

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	103
5- 10	305
10- 15	493
15- 20	658
20- 25	792
25- 30	891
30- 35	951
35- 40	970
40- 45	951
45- 50	899
50- 55	821
55- 60	722
60- 65	609
65- 70	485
70- 75	356
75- 80	231
80- 85	122
85- 90	47
90- 95	11
95-100	3
100-105	3
105-110	3
110-115	3
115-120	2
120-125	2
125-130	2
130-135	2
135-140	2
140-145	2
145-150	2
150-155	1
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	408
0- 20	1558
0- 30	3242
0- 40	5162
0- 50	7013
0- 60	8556
0- 70	9650
0- 80	10237
0- 90	10407
0-100	10421
0-110	10426
0-120	10431
0-130	10435
0-140	10439
0-150	10443
0-160	10445
0-170	10447
0-180	10448

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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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

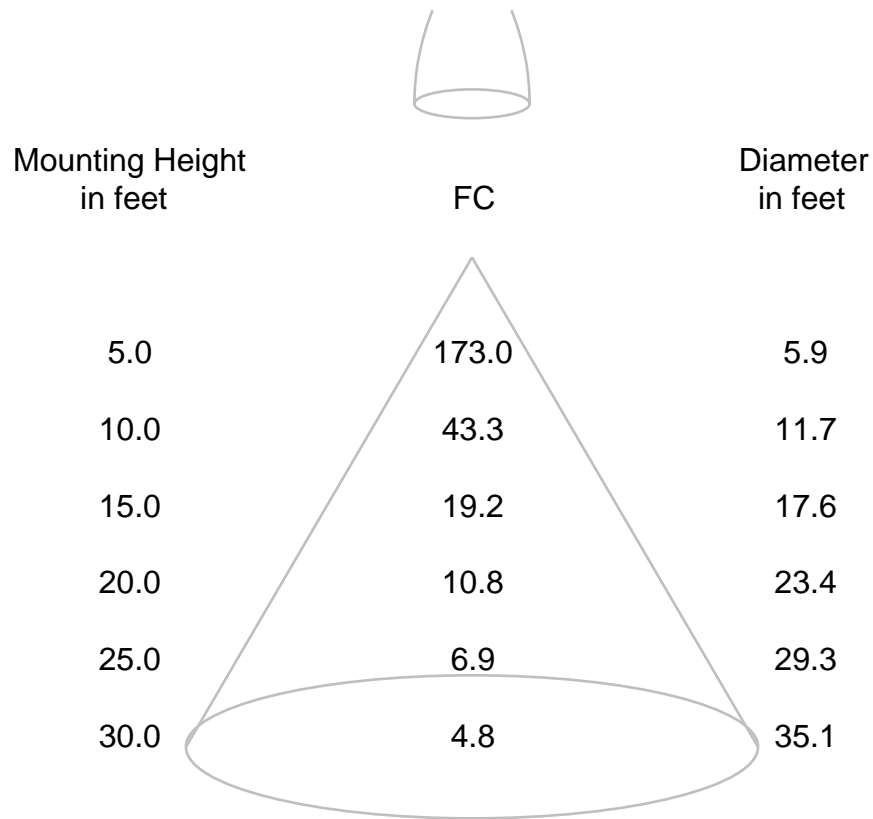
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.