

REPORT NUMBER: RAB00858

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ISSUE DATE: 05/04/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150YNW/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 = 75.054 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	3351	3351	3351	3351	
5	3332	3360	3329	3300	316
15	3175	3267	3192	3016	890
25	2862	2982	2903	2559	1301
35	2424	2523	2495	2032	1482
45	1903	1982	1990	1494	1424
55	1373	1445	1450	1002	1180
65	884	966	936	561	829
75	437	553	470	184	438
85	73	200	89	0	115
90	1	66	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	2507	31.4
0- 40	3989	50.0
0- 60	6593	82.6
0- 90	7975	99.9
90-120	5	0.1
90-130	5	0.1
90-150	5	0.1
90-180	6	0.1
0-180	7981	100.0

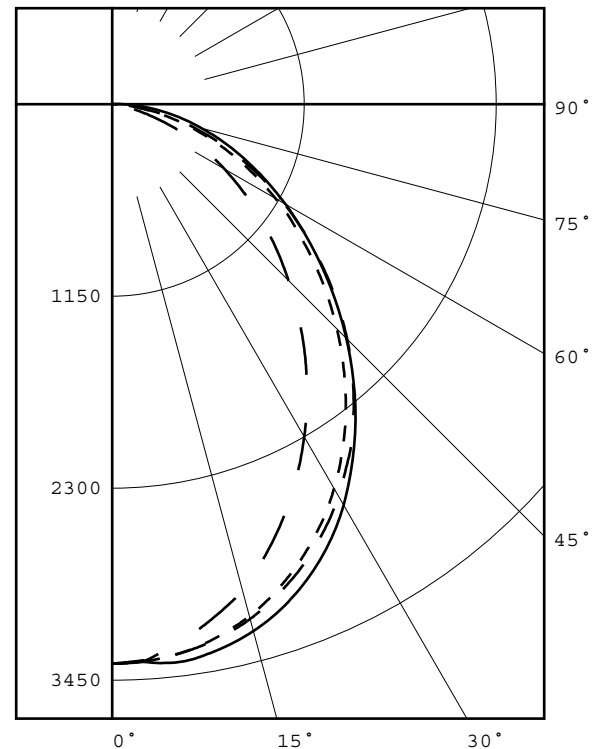
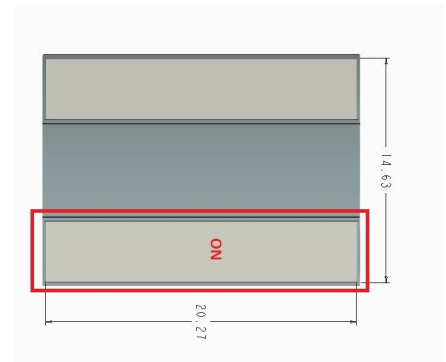
TOTAL INPUT WATTS = 75.1

EFFICACY = 106.3 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  
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 99.9 X 92.0 DEGREES  
FIELD ANGLE (10%): 155.5 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	3351	3351	3351	3351	3351	3351	3351	3351
5.0	3332	3338	3348	3358	3360	3353	3339	3333
10.0	3273	3297	3322	3339	3341	3335	3318	3302
15.0	3175	3220	3246	3260	3267	3264	3251	3229
20.0	3035	3097	3126	3145	3147	3153	3141	3124
25.0	2862	2937	2967	2982	2982	2995	2993	2977
30.0	2658	2739	2766	2775	2772	2792	2800	2792
35.0	2424	2509	2532	2532	2523	2550	2568	2571
40.0	2168	2257	2273	2265	2259	2290	2318	2327
45.0	1903	1993	2004	1993	1982	2018	2050	2067
50.0	1637	1725	1733	1721	1709	1742	1776	1796
55.0	1373	1457	1467	1455	1445	1475	1508	1524
60.0	1130	1200	1211	1207	1199	1225	1249	1257
65.0	884	955	970	974	966	991	1006	1005
70.0	651	723	748	757	754	782	777	766
75.0	437	503	535	555	553	566	561	535
80.0	238	305	353	378	371	379	366	331
85.0	73	138	169	202	200	205	184	149
90.0	1	21	44	65	66	66	47	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	3351	3351	3351	3351	3351	3351	3351	3351
5.0	3329	3326	3314	3299	3300	3298	3317	3335
10.0	3280	3254	3218	3183	3169	3176	3213	3254
15.0	3192	3143	3078	3026	3016	3021	3066	3130
20.0	3063	2990	2896	2822	2797	2807	2873	2966
25.0	2903	2809	2698	2604	2559	2578	2657	2770
30.0	2711	2596	2464	2357	2300	2326	2426	2546
35.0	2495	2369	2210	2095	2032	2064	2171	2302
40.0	2248	2116	1946	1825	1760	1802	1902	2036
45.0	1990	1848	1678	1560	1494	1535	1629	1778
50.0	1721	1581	1413	1301	1241	1279	1370	1514
55.0	1450	1316	1156	1052	1002	1032	1117	1253
60.0	1189	1059	913	821	777	803	878	1003
65.0	936	814	684	602	561	587	653	767
70.0	694	583	473	401	363	388	448	542
75.0	470	371	271	214	184	204	253	339
80.0	258	179	104	68	51	63	93	158
85.0	89	37	7	0	0	0	6	30
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	80.
5- 10	236.
10- 15	381.
15- 20	509.
20- 25	613.
25- 30	689.
30- 35	734.
35- 40	748.
40- 45	732.
45- 50	691.
50- 55	629.
55- 60	551.
60- 65	462.
65- 70	366.
70- 75	267.
75- 80	171.
80- 85	86.
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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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	80
5- 10	236
10- 15	381
15- 20	509
20- 25	613
25- 30	689
30- 35	734
35- 40	748
40- 45	732
45- 50	691
50- 55	629
55- 60	551
60- 65	462
65- 70	366
70- 75	267
75- 80	171
80- 85	86
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

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	316
0- 20	1206
0- 30	2507
0- 40	3989
0- 50	5413
0- 60	6593
0- 70	7422
0- 80	7860
0- 90	7975
0-100	7979
0-110	7980
0-120	7980
0-130	7980
0-140	7980
0-150	7981
0-160	7981
0-170	7981
0-180	7981

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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.

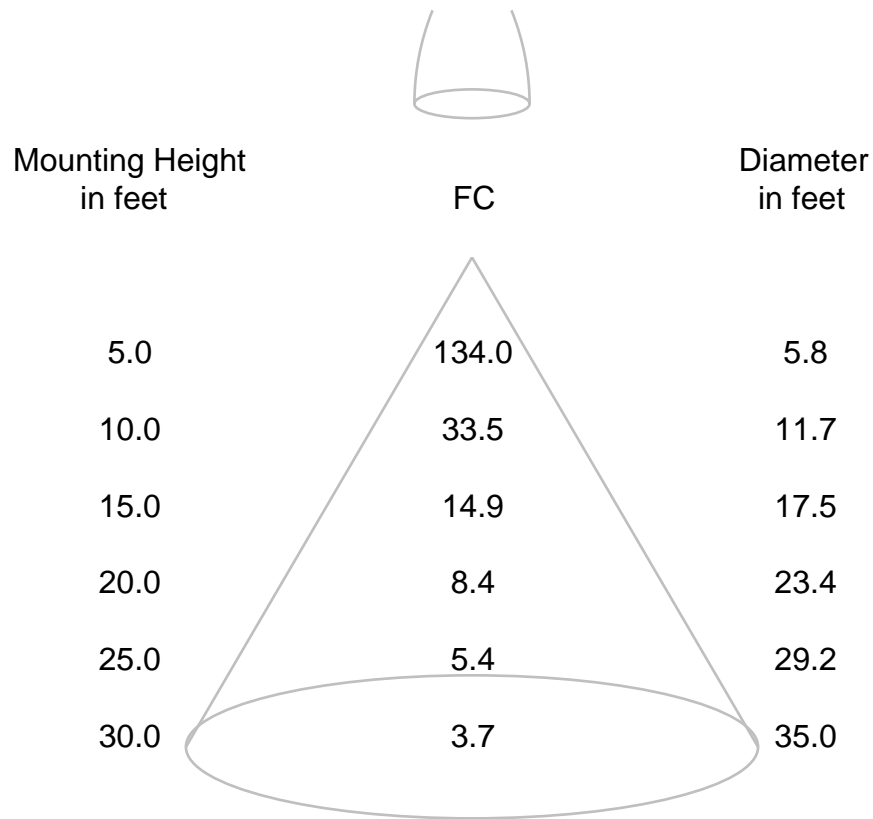


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## CONE OF LIGHT DIAGRAM

(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.