

REPORT NUMBER: SCALED FROM RAB00858

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ISSUE DATE: 05/11/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150W/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 = 75.4 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	3783	3783	3783	3783	
5	3763	3794	3759	3727	357
15	3585	3689	3605	3406	1005
25	3232	3367	3278	2890	1470
35	2737	2849	2817	2295	1673
45	2149	2238	2247	1687	1608
55	1550	1632	1637	1132	1333
65	998	1091	1057	634	936
75	493	624	531	208	494
85	82	226	101	0	130
90	1	75	1	0	
95	0	0	0	0	5
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	2832	31.4
0- 40	4505	50.0
0- 60	7445	82.6
0- 90	9006	99.9
90-120	5	0.1
90-130	6	0.1
90-150	6	0.1
90-180	7	0.1
0-180	9013	100.0

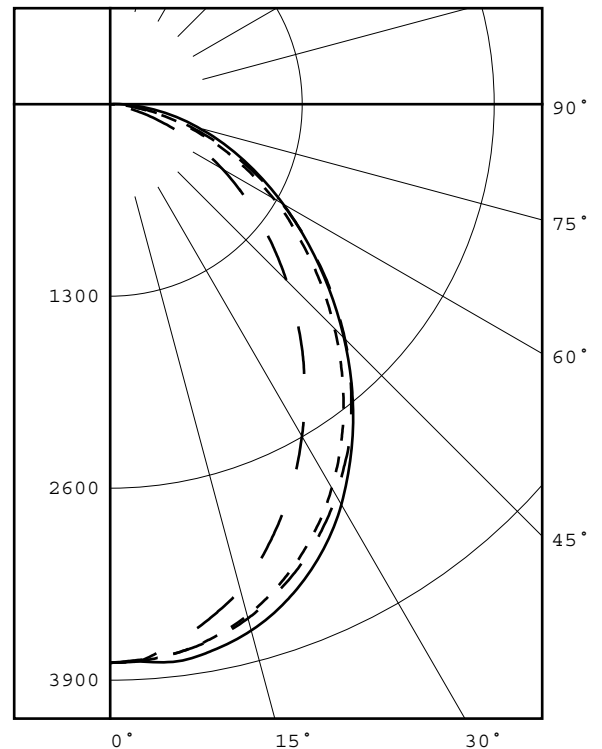
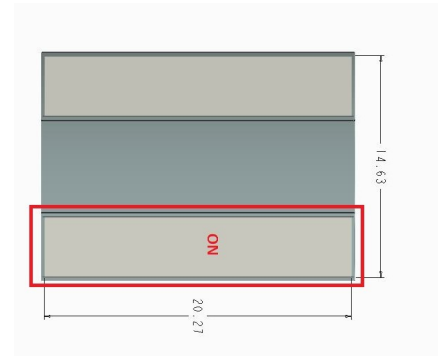
TOTAL INPUT WATTS = 75.4

EFFICACY = 119.5 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  
5000  
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	3783	3783	3783	3783	3783	3783	3783	3783
5.0	3763	3769	3780	3792	3794	3786	3771	3764
10.0	3696	3723	3751	3771	3773	3766	3747	3729
15.0	3585	3636	3666	3681	3689	3686	3671	3646
20.0	3427	3497	3530	3551	3554	3561	3547	3528
25.0	3232	3317	3350	3367	3367	3382	3380	3362
30.0	3002	3093	3124	3134	3130	3153	3162	3153
35.0	2737	2833	2859	2859	2849	2880	2900	2903
40.0	2448	2549	2567	2558	2551	2586	2618	2628
45.0	2149	2251	2263	2251	2238	2279	2315	2334
50.0	1849	1948	1957	1943	1930	1967	2006	2028
55.0	1550	1645	1657	1643	1632	1666	1703	1721
60.0	1276	1355	1368	1363	1354	1383	1410	1419
65.0	998	1078	1095	1100	1091	1119	1136	1135
70.0	735	816	845	855	851	883	877	865
75.0	493	568	604	627	624	639	634	604
80.0	269	344	399	427	419	428	413	374
85.0	82	156	191	228	226	231	208	168
90.0	1	24	50	73	75	75	53	26
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	3783	3783	3783	3783	3783	3783	3783	3783
5.0	3759	3756	3742	3725	3727	3724	3746	3766
10.0	3704	3675	3634	3594	3579	3586	3628	3675
15.0	3605	3549	3476	3417	3406	3411	3462	3535
20.0	3459	3376	3270	3187	3159	3170	3244	3349
25.0	3278	3172	3047	2941	2890	2911	3000	3128
30.0	3061	2932	2782	2662	2597	2627	2740	2875
35.0	2817	2675	2496	2366	2295	2331	2452	2600
40.0	2539	2389	2198	2061	1987	2035	2148	2299
45.0	2247	2087	1895	1762	1687	1733	1840	2008
50.0	1943	1785	1596	1469	1401	1444	1547	1710
55.0	1637	1486	1305	1188	1132	1165	1261	1415
60.0	1343	1196	1031	927	877	907	991	1133
65.0	1057	919	772	680	634	663	737	866
70.0	784	658	534	453	410	438	506	612
75.0	531	419	306	242	208	230	286	383
80.0	291	202	117	77	58	71	105	178
85.0	101	42	8	0	0	0	7	34
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	90.
5- 10	267.
10- 15	431.
15- 20	574.
20- 25	692.
25- 30	778.
30- 35	829.
35- 40	845.
40- 45	827.
45- 50	781.
50- 55	710.
55- 60	623.
60- 65	522.
65- 70	414.
70- 75	302.
75- 80	193.
80- 85	97.
85- 90	33.
90- 95	5.
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.