

REPORT NUMBER: SCALED FROM RAB00859

ISSUE DATE: 05/12/15

PAGE: 1 OF 5  
DATE SAMPLE TESTED: 05/08/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL225W/BL/4 ON

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, FOUR WHITE  
CIRCUIT BOARD WITH NINETY SIX LEDS ON EACH BOARD, METAL REFLECTOR  
WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.  
LAMPS: THREE HUNDRED AND EIGHTY FOUR LIGHT EMITTING DIODES (LEDs).

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 150.2 AT 120.0 VAC.

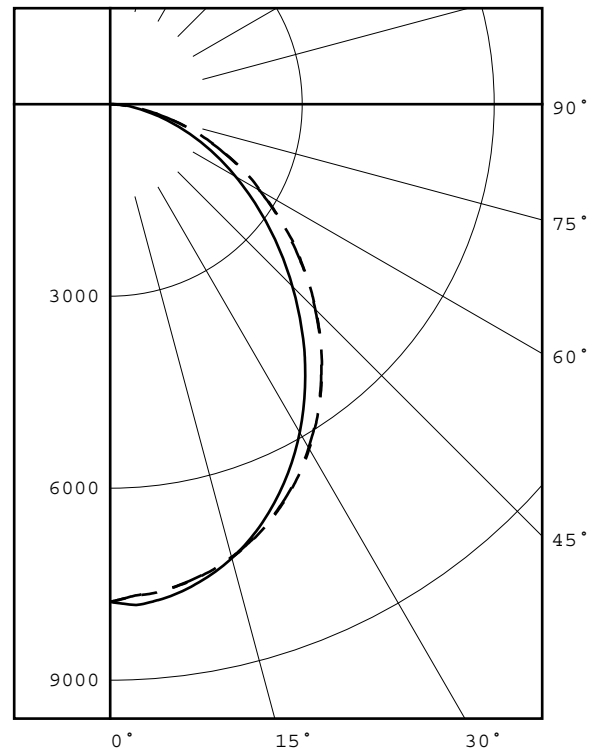
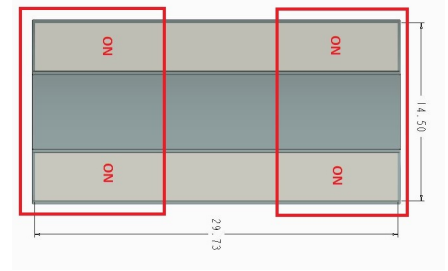
TEST PROCEDURE: IESNA LM-79-08

\*(SEE PAGE 2 FOR MORE INFORMATION)\*

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	7777	7777	7777	7777	7777	
5	7671	7730	7797	7727	7662	734
15	7335	7340	7345	7332	7325	2068
25	6667	6576	6475	6566	6654	3025
35	5705	5511	5311	5496	5692	3444
45	4544	4276	4028	4263	4531	3307
55	3314	3043	2814	3032	3300	2738
65	2164	1935	1750	1912	2146	1929
75	1080	951	859	944	1065	1026
85	213	242	258	234	205	288
90	11	71	99	67	11	
95	0	3	14	5	2	18
105	1	2	2	3	3	3
115	1	2	2	3	3	2
125	1	2	2	3	3	2
135	2	2	3	5	5	3
145	3	3	5	5	5	3
155	3	5	5	6	6	2
165	3	5	6	6	6	1
175	5	6	7	7	7	1
180	7	7	7	7	7	

### FLUX



LEGEND:  
0-deg: - - - - -  
90-deg: \_\_\_\_\_  
180-deg: - - - - -

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	5826	31.3
0- 40	9270	49.9
0- 60	15315	82.4
0- 90	18559	99.8
90-120	23	0.1
90-130	25	0.1
90-150	30	0.2
90-180	35	0.2
0-180	18593	100.0

TOTAL INPUT WATTS = 150.2

EFFICACY = 123.8 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.1 1.2

Checked X.CAO  
Approved D.WANG-MUNSON

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## ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET  
DRIVER: RD-144-Q0700-R  
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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PAGE: 4 OF 5  
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## ZONAL LUMEN SUMMARY

0- 5	185.
5- 10	548.
10- 15	886.
15- 20	1182.
20- 25	1424.
25- 30	1601.
30- 35	1705.
35- 40	1739.
40- 45	1702.
45- 50	1605.
50- 55	1460.
55- 60	1278.
60- 65	1075.
65- 70	855.
70- 75	624.
75- 80	402.
80- 85	210.
85- 90	78.
90- 95	16.
95-100	2.
100-105	1.
105-110	1.
110-115	1.
115-120	1.
120-125	1.
125-130	1.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	1.
165-170	1.
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	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	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	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	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.