

REPORT NUMBER: RAB00859

ISSUE DATE: 05/08/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL225YNW/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 = 151.23 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

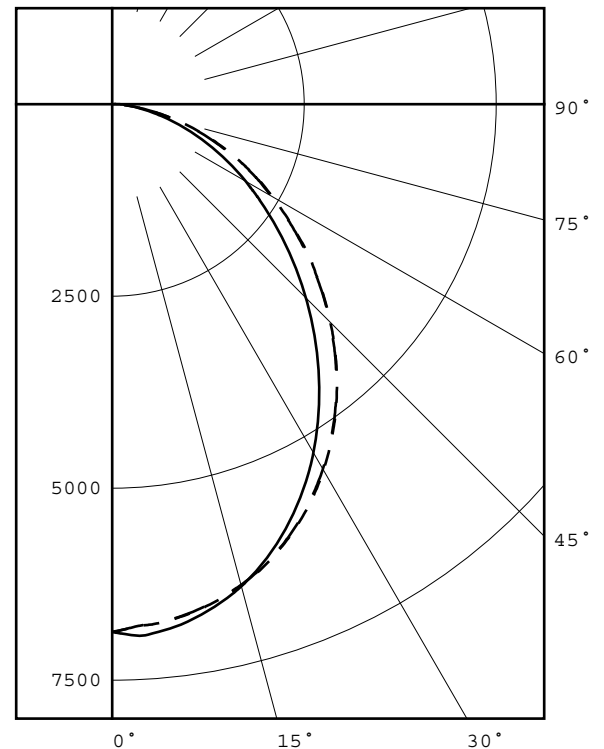
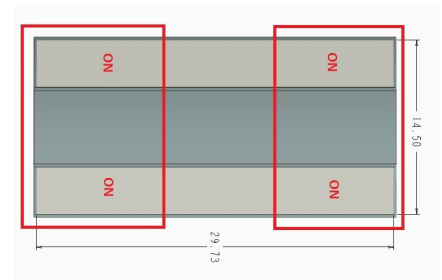
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

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### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	6873	6873	6873	6873	6873	
5	6786	6838	6897	6835	6778	649
15	6489	6493	6497	6486	6480	1829
25	5898	5817	5728	5808	5886	2676
35	5047	4875	4698	4862	5035	3047
45	4020	3783	3563	3771	4008	2925
55	2932	2692	2489	2682	2919	2422
65	1914	1712	1548	1691	1898	1707
75	955	841	760	835	942	908
85	188	214	228	207	181	255
90	10	63	88	59	10	
95	0	3	12	4	2	16
105	1	2	2	3	3	2
115	1	2	2	3	3	2
125	1	2	2	3	3	2
135	2	2	3	4	4	2
145	3	3	4	4	4	2
155	3	4	4	5	5	2
165	3	4	5	5	5	1
175	4	5	6	6	6	1
180	5	5	5	5	5	

### FLUX



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

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	5154	31.3
0- 40	8201	49.9
0- 60	13548	82.4
0- 90	16417	99.8
90-120	20	0.1
90-130	22	0.1
90-150	27	0.2
90-180	31	0.2
0-180	16447	100.0

TOTAL INPUT WATTS = 151.2

EFFICACY = 108.8 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

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 100.1 X 91.8 DEGREES  
FIELD ANGLE (10%) : 155.9 X 152.0 DEGREES



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## ZONAL LUMEN SUMMARY

0- 5	164.
5- 10	485.
10- 15	783.
15- 20	1046.
20- 25	1260.
25- 30	1416.
30- 35	1509.
35- 40	1538.
40- 45	1505.
45- 50	1420.
50- 55	1291.
55- 60	1131.
60- 65	951.
65- 70	756.
70- 75	552.
75- 80	355.
80- 85	186.
85- 90	69.
90- 95	14.
95-100	1.
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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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	164
5- 10	485
10- 15	783
15- 20	1046
20- 25	1260
25- 30	1416
30- 35	1509
35- 40	1538
40- 45	1505
45- 50	1420
50- 55	1291
55- 60	1131
60- 65	951
65- 70	756
70- 75	552
75- 80	355
80- 85	186
85- 90	69
90- 95	14
95-100	1
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

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	649
0- 20	2478
0- 30	5154
0- 40	8201
0- 50	11126
0- 60	13548
0- 70	15255
0- 80	16162
0- 90	16417
0-100	16433
0-110	16435
0-120	16437
0-130	16439
0-140	16441
0-150	16444
0-160	16446
0-170	16447
0-180	16447

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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

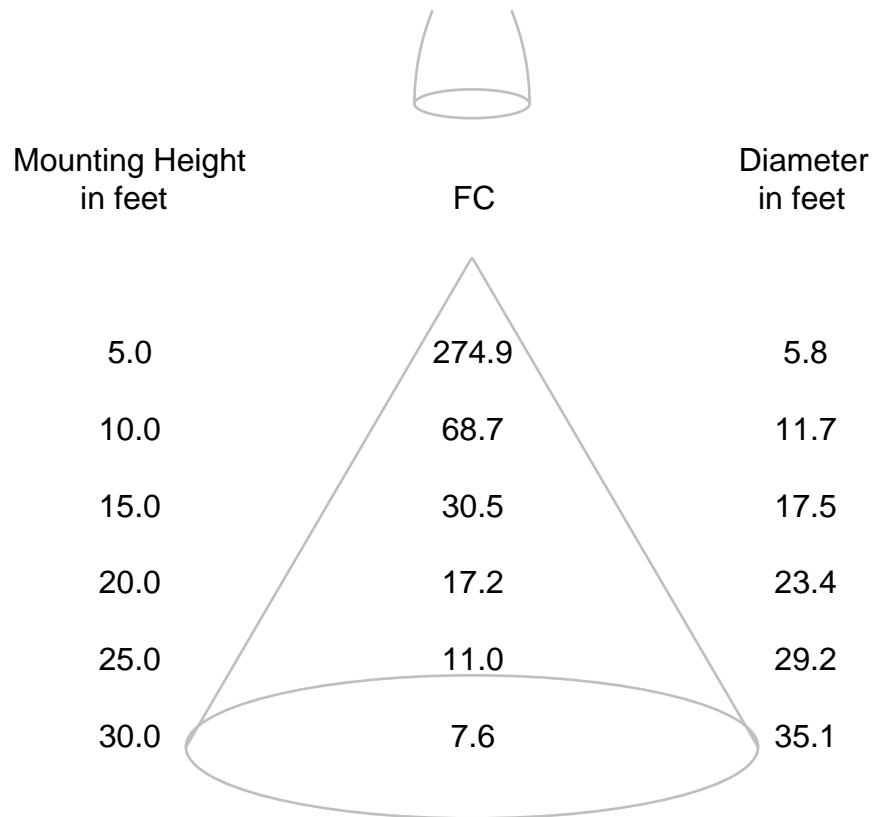
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.