

REPORT NUMBER: PRORATED FROM RAB03410

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ISSUE DATE: 05/25/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150NW/480/D10, RAILP150NW/480/D10 (Standard Distribution) (ALSO APPLIES TO 347 RCL)

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, TWO WHITE CIRCUIT BOARD WITH TWO HUNDRED AND TEN LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

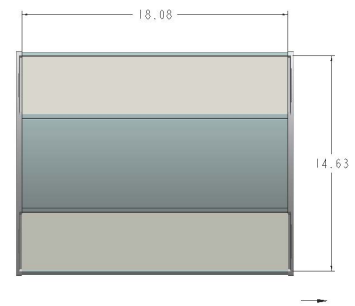
LAMPS: FOUR HUNDRED AND TWENTY LIGHT EMITTING DIODES (LEDs).

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

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	7566	7566	7566	7566	7566	
5	7529	7536	7531	7517	7523	714
15	7174	7172	7138	7101	7097	2009
25	6454	6436	6361	6291	6266	2927
35	5466	5433	5323	5226	5170	3329
45	4337	4276	4149	4041	4007	3211
55	3162	3111	3005	2888	2857	2688
65	2034	1992	1920	1838	1806	1900
75	990	970	945	911	899	1009
85	171	205	281	329	346	315
90	1	39	103	149	165	
95	0	0	10	32	40	30
105	0	0	1	1	1	1
115	1	1	1	1	1	1
125	1	1	1	1	1	1
135	2	2	2	2	2	2
145	3	3	3	3	3	2
155	3	3	4	4	4	2
165	4	4	4	4	4	1
175	4	5	5	5	5	0
180	5	5	5	5	5	

### FLUX



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	5649	31.1
0- 40	8978	49.5
0- 60	14877	82.0
0- 90	18101	99.8
90-120	31	0.2
90-130	33	0.2
90-150	36	0.2
90-180	40	0.2
0-180	18140	100.0

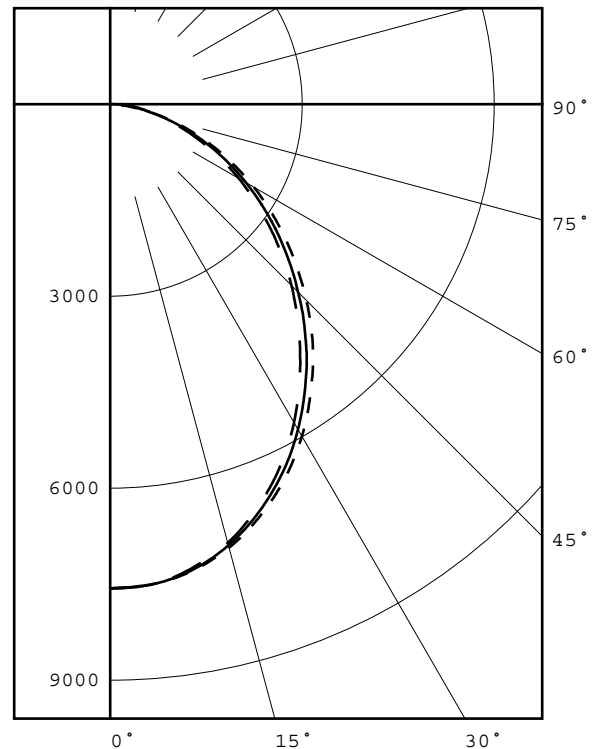
TOTAL INPUT WATTS = 135.2

EFFICACY = 134.2 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.1



LEGEND:

0-deg: - - - - -  
45-deg: ————  
90-deg: ————

Checked X.CAO  
Approved D.WANG-MUNSON

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## ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03410 WHICH WAS  
RAIL150YNW/480/D10. ACTUAL PERFORMANCE MAY VARY.  
TOTAL INPUT WATTS = 135.2 W AT 480.0 VAC.  
LED DRIVER: 2 X RDD-H65-42B-A1400  
TEST PROCEDURE: IESNA LM-79-08  
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 99.3 X 93.8 DEGREES  
FIELD ANGLE (10%): 154.9 X 154.0 DEGREES

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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH :18.080 14.630

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	35925.	34375.	33195.
55	32293.	30687.	29178.
65	28197.	26606.	25030.
75	22396.	21386.	20351.
85	11501.	18859.	23288.

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### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	7566	7566	7566	7566	7566
5.0	7529	7536	7531	7517	7523
10.0	7402	7404	7390	7363	7360
15.0	7174	7172	7138	7101	7097
20.0	6848	6840	6785	6730	6715
25.0	6454	6436	6361	6291	6266
30.0	5991	5964	5868	5787	5745
35.0	5466	5433	5323	5226	5170
40.0	4925	4868	4747	4642	4590
45.0	4337	4276	4149	4041	4007
50.0	3742	3682	3572	3455	3421
55.0	3162	3111	3005	2888	2857
60.0	2592	2545	2450	2342	2320
65.0	2034	1992	1920	1838	1806
70.0	1495	1463	1413	1351	1320
75.0	990	970	945	911	899
80.0	534	535	550	565	569
85.0	171	205	281	329	346
90.0	1	39	103	149	165
95.0	0	0	10	32	40
100.0	0	0	1	1	1
105.0	0	0	1	1	1
110.0	1	1	1	1	1
115.0	1	1	1	1	1
120.0	1	1	1	1	1
125.0	1	1	1	1	1
130.0	1	1	2	2	2
135.0	2	2	2	2	2
140.0	2	2	2	3	3
145.0	3	3	3	3	3
150.0	3	3	3	3	4
155.0	3	3	4	4	4
160.0	4	4	4	4	4
165.0	4	4	4	4	4
170.0	4	4	4	5	5
175.0	4	5	5	5	5
180.0	5	5	5	5	5

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### ZONAL LUMEN SUMMARY

0- 5	180.
5- 10	534.
10- 15	861.
15- 20	1147.
20- 25	1378.
25- 30	1548.
30- 35	1648.
35- 40	1681.
40- 45	1649.
45- 50	1561.
50- 55	1429.
55- 60	1259.
60- 65	1060.
65- 70	841.
70- 75	612.
75- 80	397.
80- 85	219.
85- 90	96.
90- 95	27.
95-100	3.
100-105	0.
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	180
5- 10	534
10- 15	861
15- 20	1147
20- 25	1378
25- 30	1548
30- 35	1648
35- 40	1681
40- 45	1649
45- 50	1561
50- 55	1429
55- 60	1259
60- 65	1060
65- 70	841
70- 75	612
75- 80	397
80- 85	219
85- 90	96
90- 95	27
95-100	3
100-105	0
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	714
0- 20	2723
0- 30	5649
0- 40	8978
0- 50	12189
0- 60	14877
0- 70	16777
0- 80	17786
0- 90	18101
0-100	18130
0-110	18131
0-120	18132
0-130	18133
0-140	18135
0-150	18137
0-160	18139
0-170	18140
0-180	18140

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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	82	77	83	79	75	80	77	74	72
3	91	81	74	67	89	80	73	67	77	71	65	74	69	64	71	67	63	61
4	84	73	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	53	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	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	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	29	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.

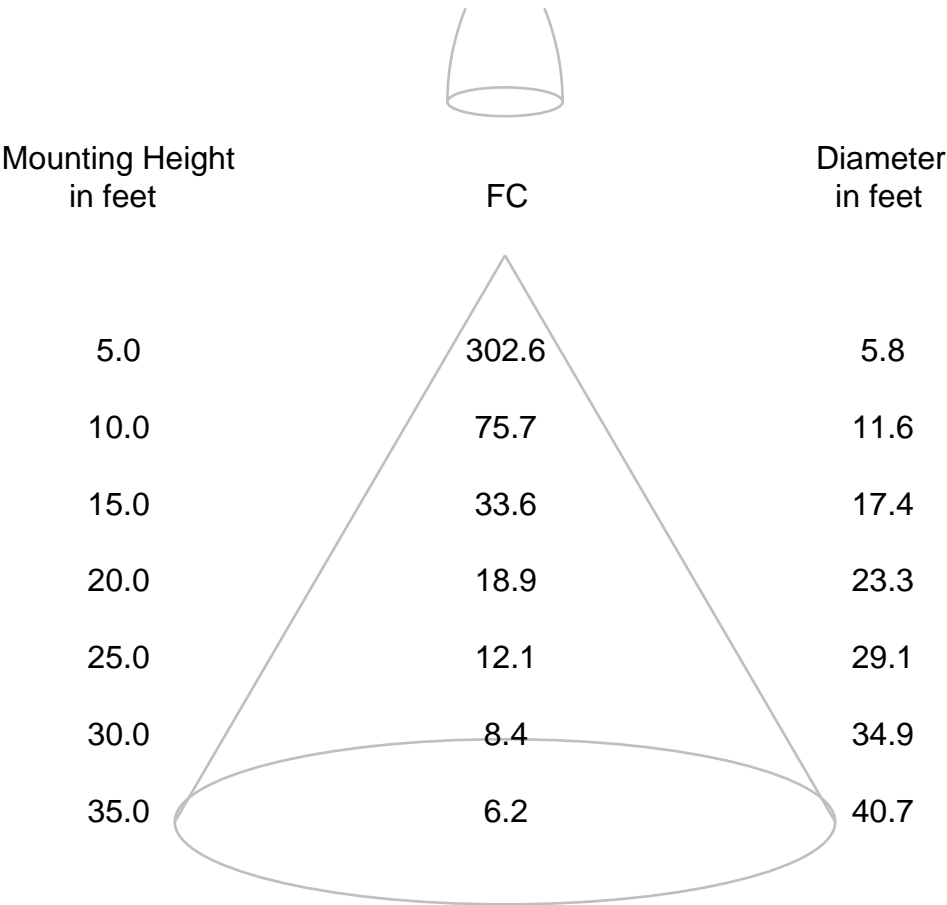


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# CONE OF LIGHT DIAGRAM

(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.