

REPORT NUMBER: PRORATED FROM RAB03415

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ISSUE DATE: 05/24/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL400W/D10, RAILP400W/D10 (Standard Distribution)

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, FOUR WHITE

CIRCUIT BOARD WITH THREE HUNDRED LEDS ON EACH BOARD, METAL

REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

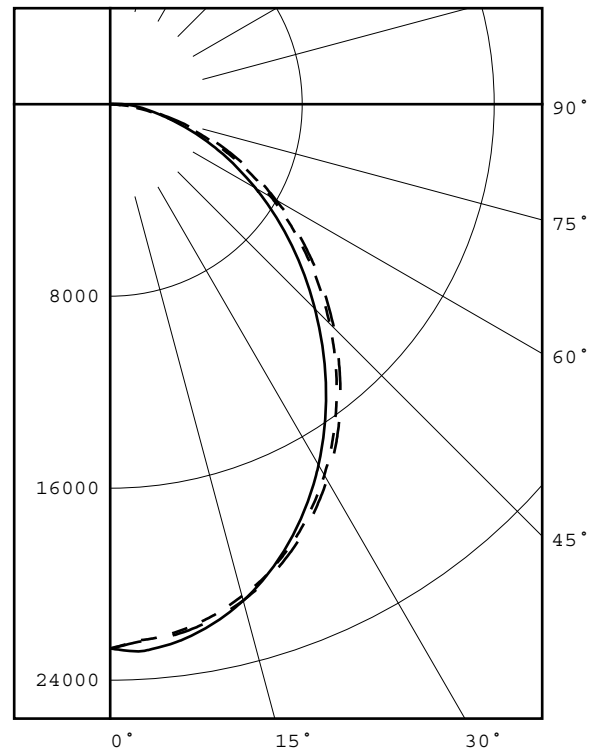
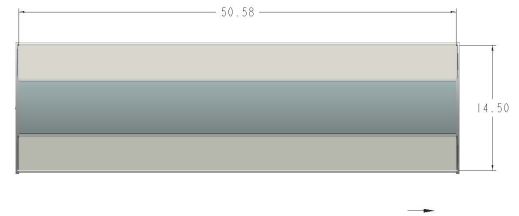
LAMPS: TWELVE HUNDRED LIGHT EMITTING DIODES (LEDs).

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

### CANDELA DISTRIBUTION

### FLUX

	0.0	45.0	90.0	135.0	180.0	
0	22680	22680	22680	22680	22680	
5	22313	22571	22729	22612	22384	2141
15	21218	21360	21414	21471	21407	6029
25	19199	19061	18922	19222	19401	8807
35	16313	15961	15650	16152	16563	10040
45	12931	12498	12050	12654	13177	9705
55	9448	8992	8620	9192	9673	8144
65	6088	5707	5472	5940	6381	5795
75	2933	2831	2772	2988	3198	3129
85	466	869	1119	951	625	1020
90	2	337	561	394	23	
95	3	40	161	58	5	116
105	6	7	7	8	8	8
115	8	7	7	10	11	8
125	10	10	8	11	13	9
135	14	13	13	15	16	11
145	18	18	18	20	20	12
155	22	22	23	24	24	11
165	27	27	28	29	29	8
175	29	30	34	32	32	3
180	32	32	32	32	32	



LEGEND:

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

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	16977	30.9
0- 40	27017	49.1
0- 60	44866	81.6
0- 90	54810	99.7
90-120	133	0.2
90-130	142	0.3
90-150	164	0.3
90-180	186	0.3
0-180	54996	100.0

TOTAL INPUT WATTS = 398.9

EFFICACY = 137.9 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

NOTE: THIS REPORT WAS PRORATED FROM RAB03415 WHICH WAS  
RAIL400NW/D10, RAILP400NW/D10. ACTUAL PERFORMANCE MAY VARY.  
TOTAL INPUT WATTS = 398.9 W AT 120.0 VAC.  
LED DRIVER: 4 x RDD-096-A2450  
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%) : 99.4 X 93.7 DEGREES  
FIELD ANGLE (10%): 155.5 X 154.6 DEGREES

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PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 50.580 14.500

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	38634.	36002.	39369.
55	34802.	31748.	35629.
65	30434.	27355.	31897.
75	23943.	22628.	26106.
85	11306.	27135.	15161.

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[illegible]

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### ZONAL LUMEN SUMMARY

0- 5	541.
5- 10	1600.
10- 15	2583.
15- 20	3446.
20- 25	4147.
25- 30	4660.
30- 35	4968.
35- 40	5072.
40- 45	4982.
45- 50	4723.
50- 55	4325.
55- 60	3819.
60- 65	3224.
65- 70	2571.
70- 75	1889.
75- 80	1240.
80- 85	699.
85- 90	321.
90- 95	101.
95-100	15.
100-105	4.
105-110	4.
110-115	4.
115-120	4.
120-125	4.
125-130	5.
130-135	5.
135-140	6.
140-145	6.
145-150	6.
150-155	6.
155-160	5.
160-165	4.
165-170	3.
170-175	2.
175-180	1.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	541
5- 10	1600
10- 15	2583
15- 20	3446
20- 25	4147
25- 30	4660
30- 35	4968
35- 40	5072
40- 45	4982
45- 50	4723
50- 55	4325
55- 60	3819
60- 65	3224
65- 70	2571
70- 75	1889
75- 80	1240
80- 85	699
85- 90	321
90- 95	101
95-100	15
100-105	4
105-110	4
110-115	4
115-120	4
120-125	4
125-130	5
130-135	5
135-140	6
140-145	6
145-150	6
150-155	6
155-160	5
160-165	4
165-170	3
170-175	2
175-180	1

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	2141
0- 20	8170
0- 30	16977
0- 40	27017
0- 50	36722
0- 60	44866
0- 70	50661
0- 80	53790
0- 90	54810
0-100	54926
0-110	54934
0-120	54943
0-130	54952
0-140	54962
0-150	54974
0-160	54985
0-170	54993
0-180	54996

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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	100	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	80	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	38	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	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.

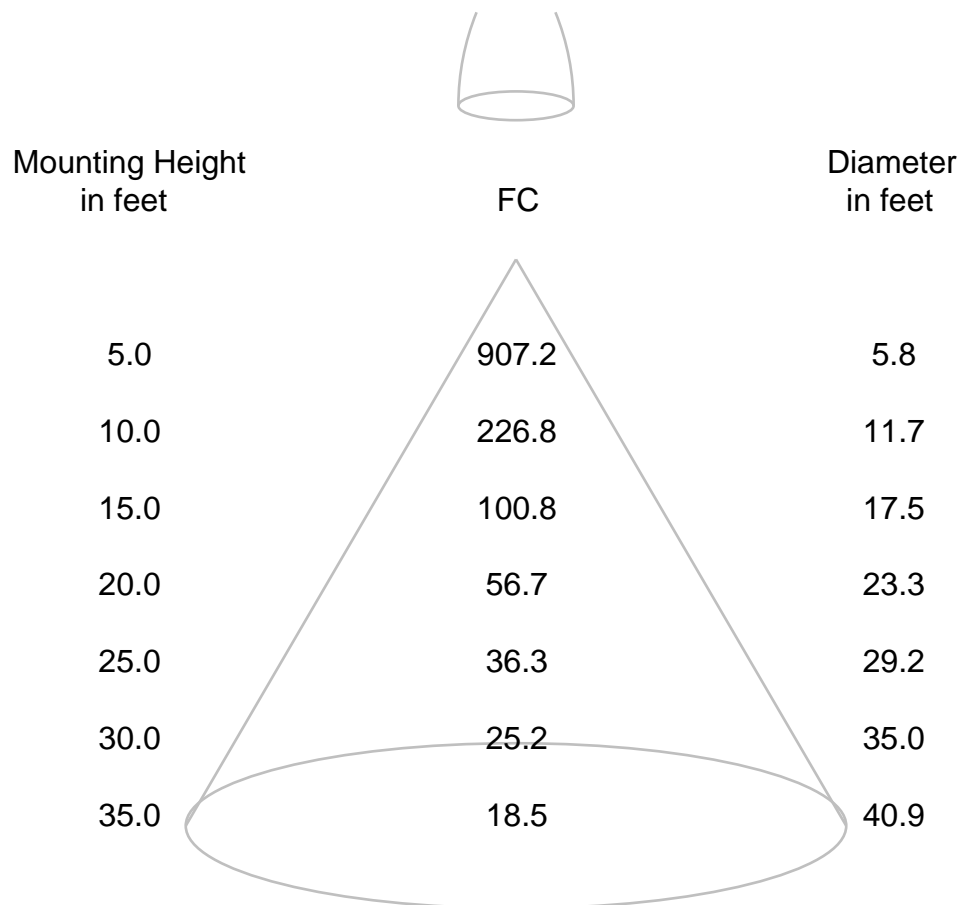


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## CONE OF LIGHT DIAGRAM

(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.