

REPORT NUMBER: PRORATED FROM RAB03412

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ISSUE DATE: 05/25/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185W/480/D10, RAILP185W/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 FIFTY TWO LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

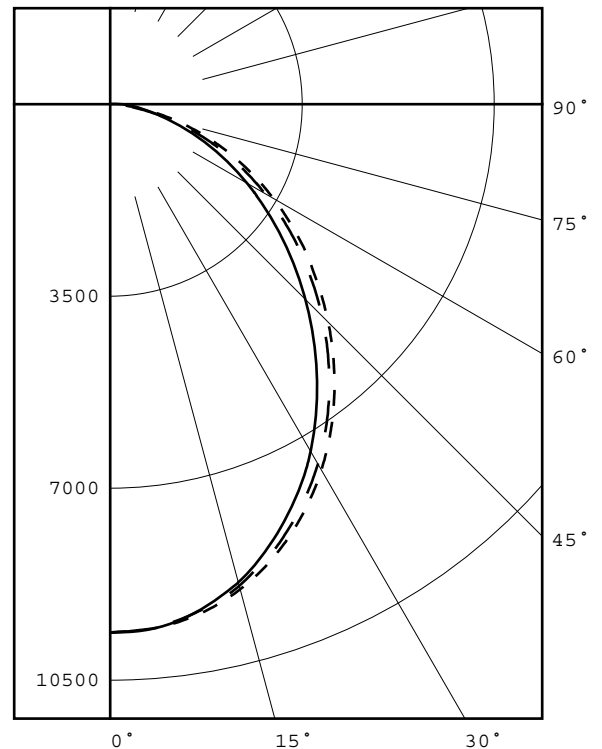
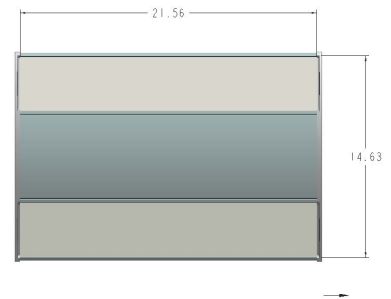
LAMPS: FIVE HUNDRED AND FOUR LIGHT EMITTING DIODES (LEDs).

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	9632	9632	9632	9632	9632	
5	9583	9582	9583	9572	9564	908
15	9157	9091	9024	9048	9090	2554
25	8275	8123	7958	8042	8160	3722
35	7054	6808	6569	6721	6913	4237
45	5622	5333	5030	5220	5456	4082
55	4167	3858	3560	3738	3974	3412
65	2720	2474	2238	2367	2549	2412
75	1359	1227	1110	1144	1210	1281
85	267	367	425	330	184	396
90	11	137	198	113	1	
95	0	17	50	11	2	38
105	2	2	3	3	3	3
115	2	2	3	3	3	3
125	2	2	3	3	3	3
135	3	3	4	4	4	3
145	4	4	5	5	5	3
155	5	6	6	6	6	3
165	6	6	7	7	7	2
175	7	8	10	8	8	1
180	8	8	8	8	8	

FLUX



LEGEND:
 0-deg: - - - - -
 90-deg: _____
 180-deg: - . - . - .

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	7184	31.2
0- 40	11421	49.5
0- 60	18914	82.0
0- 90	23004	99.7
90-120	44	0.2
90-130	47	0.2
90-150	53	0.2
90-180	59	0.3
0-180	23062	100.0

TOTAL INPUT WATTS = 169.6

EFFICACY = 136.0 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 RAB03412 WHICH WAS
RAIL185NW/480/D10. ACTUAL PERFORMANCE MAY VARY.
TOTAL INPUT WATTS = 169.6 W AT 347.0 VAC.
LED DRIVER: 2 x RDD-096-A3600-240C
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%) : 99.7 X 92.8 DEGREES
FIELD ANGLE (10%): 155.3 X 153.3 DEGREES

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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH :21.560 14.630

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	39053.	34944.	37904.
55	35689.	30487.	34036.
65	31618.	26011.	29634.
75	25794.	21065.	22957.
85	15057.	23959.	10396.

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ZONAL LUMEN SUMMARY

0- 5	230.
5- 10	679.
10- 15	1095.
15- 20	1458.
20- 25	1753.
25- 30	1969.
30- 35	2098.
35- 40	2139.
40- 45	2098.
45- 50	1984.
50- 55	1814.
55- 60	1598.
60- 65	1345.
65- 70	1067.
70- 75	778.
75- 80	502.
80- 85	276.
85- 90	121.
90- 95	34.
95-100	4.
100-105	1.
105-110	1.
110-115	1.
115-120	1.
120-125	1.
125-130	1.
130-135	2.
135-140	2.
140-145	2.
145-150	2.
150-155	2.
155-160	1.
160-165	1.
165-170	1.
170-175	1.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	230
5- 10	679
10- 15	1095
15- 20	1458
20- 25	1753
25- 30	1969
30- 35	2098
35- 40	2139
40- 45	2098
45- 50	1984
50- 55	1814
55- 60	1598
60- 65	1345
65- 70	1067
70- 75	778
75- 80	502
80- 85	276
85- 90	121
90- 95	34
95-100	4
100-105	1
105-110	1
110-115	1
115-120	1
120-125	1
125-130	1
130-135	2
135-140	2
140-145	2
145-150	2
150-155	2
155-160	1
160-165	1
165-170	1
170-175	1
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	908
0- 20	3462
0- 30	7184
0- 40	11421
0- 50	15503
0- 60	18914
0- 70	21327
0- 80	22607
0- 90	23004
0-100	23042
0-110	23045
0-120	23047
0-130	23050
0-140	23053
0-150	23056
0-160	23059
0-170	23061
0-180	23062

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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	86	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

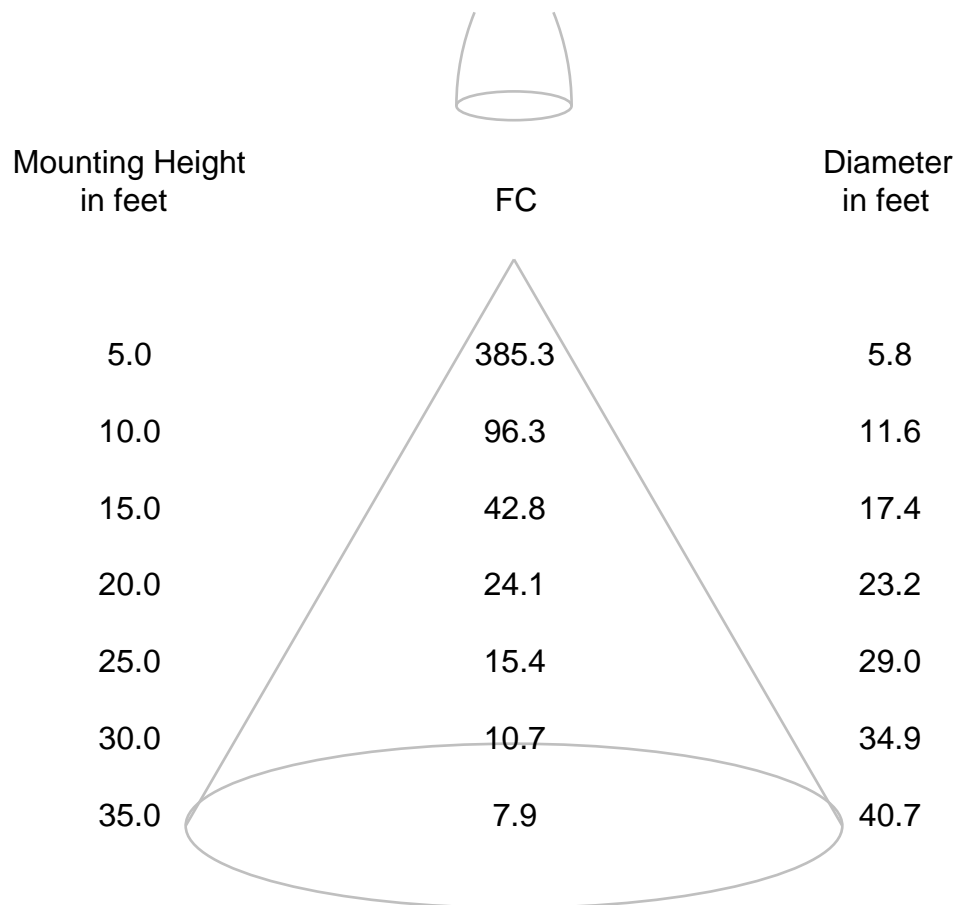
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.