

REPORT NUMBER: PRORATED FROM RAB03216

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ISSUE DATE: 05/24/17

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL150W/D10, RAILP150W/D10 (Standard Distribution)

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).

NOTE: THIS REPORT WAS PRORATED FROM RAB03216 WHICH WAS

RAIL150NW/D10, RAILP150NW/D10. ACTUAL

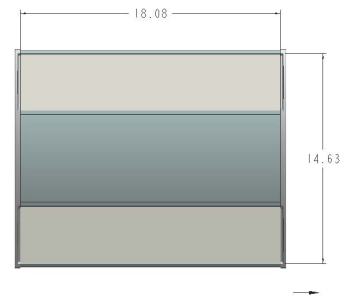
PERFORMANCE MAY VARY.

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	7880	7880	7880	7880	7880	
5	7834	7842	7836	7825	7831	743
15	7457	7452	7428	7390	7392	2090
25	6716	6695	6630	6558	6543	3049
35	5693	5652	5551	5453	5412	3469
45	4498	4450	4331	4220	4171	3343
55	3270	3232	3121	3012	2965	2793
65	2099	2074	1991	1908	1867	1974
75	1039	1016	990	949	930	1053
85	177	215	293	342	361	328
90	3	41	108	154	173	
95	0	1	11	32	42	31
105	1	1	1	1	2	1
115	1	1	1	1	2	1
125	1	1	1	1	1	1
135	2	1	2	2	2	2
145	2	2	2	3	3	2
155	2	2	3	3	3	1
165	3	3	3	3	3	1
175	3	3	4	4	4	0
180	4	4	4	4	4	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	5881	31.1
0- 40	9350	49.5
0- 60	15487	82.0
0- 90	18841	99.8
90-120	34	0.2
90-130	35	0.2
90-150	38	0.2
90-180	41	0.2
0-180	18882	100.0

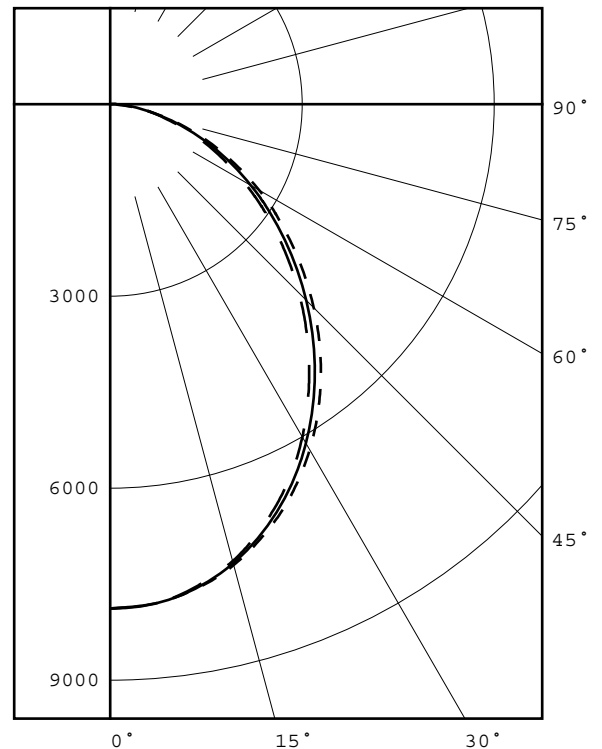
TOTAL INPUT WATTS = 132.3

EFFICACY = 142.7 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

TOTAL INPUT WATTS = 132.3 W AT 120.0 VAC.
LED DRIVER: 2 x RDD-FE075-A0142-01
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%) : 99.0 X 93.8 DEGREES
FIELD ANGLE (10%): 155.1 X 154.1 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	37261.	35883.	34556.
55	33399.	31873.	30281.
65	29093.	27594.	25875.
75	23513.	22409.	21041.
85	11898.	19665.	24296.

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	7880	7880	7880	7880	7880
5.0	7834	7842	7836	7825	7831
10.0	7691	7699	7686	7660	7662
15.0	7457	7452	7428	7390	7392
20.0	7118	7111	7069	7006	7004
25.0	6716	6695	6630	6558	6543
30.0	6235	6203	6116	6034	6005
35.0	5693	5652	5551	5453	5412
40.0	5109	5063	4949	4842	4794
45.0	4498	4450	4331	4220	4171
50.0	3879	3833	3713	3600	3559
55.0	3270	3232	3121	3012	2965
60.0	2690	2642	2541	2445	2399
65.0	2099	2074	1991	1908	1867
70.0	1555	1532	1470	1404	1374
75.0	1039	1016	990	949	930
80.0	561	558	571	584	598
85.0	177	215	293	342	361
90.0	3	41	108	154	173
95.0	0	1	11	32	42
100.0	1	1	1	1	2
105.0	1	1	1	1	2
110.0	1	1	1	2	2
115.0	1	1	1	1	2
120.0	1	1	1	1	2
125.0	1	1	1	1	1
130.0	1	1	1	2	2
135.0	2	1	2	2	2
140.0	2	2	2	2	2
145.0	2	2	2	3	3
150.0	3	3	3	3	3
155.0	2	2	3	3	3
160.0	3	3	3	3	3
165.0	3	3	3	3	3
170.0	3	3	3	4	4
175.0	3	3	4	4	4
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

0- 5	188.
5- 10	555.
10- 15	896.
15- 20	1194.
20- 25	1436.
25- 30	1613.
30- 35	1718.
35- 40	1752.
40- 45	1718.
45- 50	1625.
50- 55	1485.
55- 60	1308.
60- 65	1100.
65- 70	874.
70- 75	639.
75- 80	414.
80- 85	228.
85- 90	100.
90- 95	28.
95-100	3.
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	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	188
5- 10	555
10- 15	896
15- 20	1194
20- 25	1436
25- 30	1613
30- 35	1718
35- 40	1752
40- 45	1718
45- 50	1625
50- 55	1485
55- 60	1308
60- 65	1100
65- 70	874
70- 75	639
75- 80	414
80- 85	228
85- 90	100
90- 95	28
95-100	3
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	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	743
0- 20	2833
0- 30	5881
0- 40	9350
0- 50	12694
0- 60	15487
0- 70	17461
0- 80	18514
0- 90	18841
0-100	18872
0-110	18874
0-120	18875
0-130	18876
0-140	18877
0-150	18879
0-160	18880
0-170	18881
0-180	18882

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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

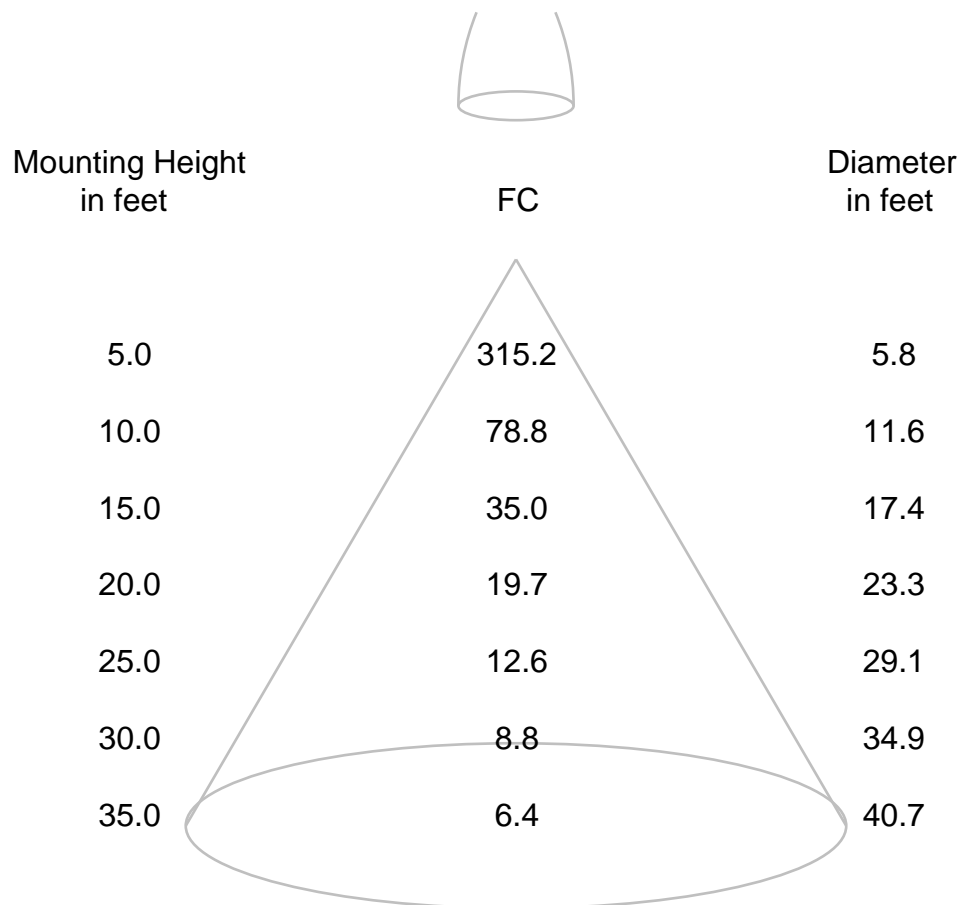
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.