

REPORT NUMBER: PRORATED FROM RAB02474

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ISSUE DATE: 09/16/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL95W/480/D10 (ALSO APPLIES TO 347/RCL)

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

LAMPS: TWO HUNDRED AND EIGHTY EIGHT LIGHT EMITTING DIODES (LEDs).

NOTE: THIS REPORT WAS PRORATED FROM RAB02474 WHICH WAS RAIL95NW/480/D10. ACTUAL PERFORMANCE MAY VARY.

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

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	5425	5425	5425	5425	5425	
5	5413	5404	5399	5388	5386	512
15	5160	5142	5119	5089	5081	1440
25	4637	4606	4556	4498	4488	2096
35	3925	3879	3801	3710	3689	2373
45	3086	3030	2937	2831	2801	2265
55	2236	2183	2092	1987	1974	1873
65	1444	1405	1325	1249	1231	1318
75	705	685	653	620	612	700
85	132	151	193	224	233	219
90	8	32	74	103	115	

### FLUX

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	4048	31.6
0- 40	6421	50.1
0- 60	10560	82.5
0- 90	12806	100.0
90-180	0	0.0
0-180	12806	100.0

TOTAL INPUT WATTS = 94.7

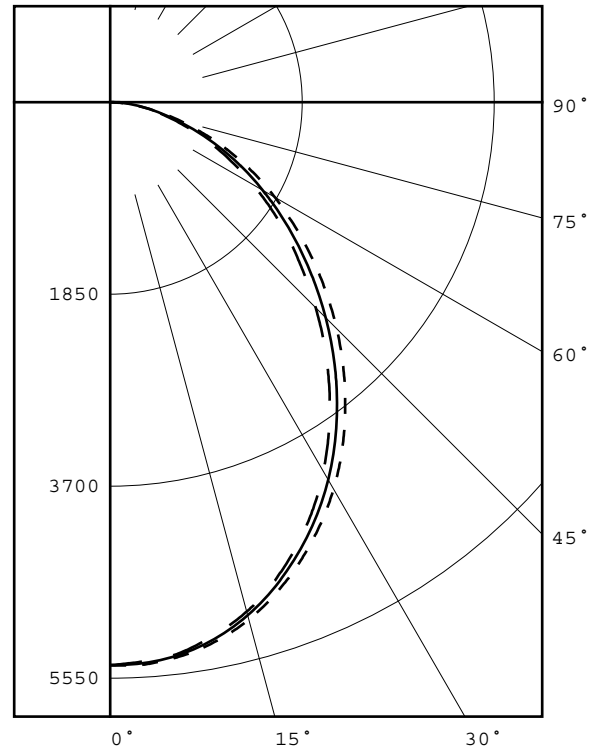
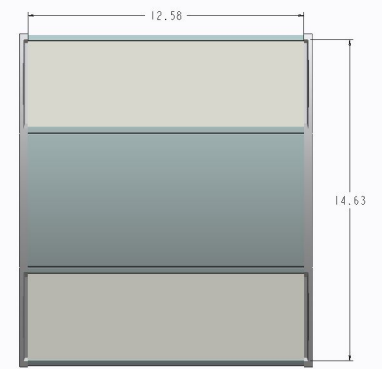
EFFICACY = 135.2 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
 SPACING CRITERIA : 1.2 1.1  
 PLANE : 0-DEG 90-DEG  
 LUMINOUS LENGTH : 14.630 12.580  
 HEIGHT OF SIDE : 0.520 0.520

### LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	35486.	33673.	32024.
55	31233.	29102.	27362.
65	26720.	24387.	22519.
75	20251.	18582.	17238.
85	9060.	12963.	15261.



#### LEGEND:

0-deg: - - - - -  
 45-deg: \_\_\_\_\_  
 90-deg: — — — — —

Checked

X.CAO

Approved

D.WANG-MUNSON

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## ADDITIONAL INFORMATION

TOTAL INPUT WATTS = 94.7 W AT 347.0 VAC.  
LED DRIVER: RDD-096-A3600-240C  
TEST PROCEDURE: IESNA LM-79-08  
TEST DISTANCE : 28.25 FEET

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 98.6 X 92.0 DEGREES  
FIELD ANGLE (10%): 154.9 X 152.8 DEGREES

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### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	5425	5425	5425	5425	5425
2.5	5431	5425	5420	5410	5405
5.0	5413	5404	5399	5388	5386
7.5	5377	5367	5359	5345	5342
10.0	5322	5312	5299	5276	5267
12.5	5253	5237	5219	5191	5182
15.0	5160	5142	5119	5089	5081
17.5	5051	5030	5000	4964	4961
20.0	4926	4901	4864	4820	4815
22.5	4788	4761	4717	4666	4659
25.0	4637	4606	4556	4498	4488
27.5	4477	4441	4388	4318	4306
30.0	4305	4264	4201	4125	4108
32.5	4121	4076	4007	3921	3903
35.0	3925	3879	3801	3710	3689
37.5	3720	3673	3589	3491	3469
40.0	3512	3462	3374	3272	3246
42.5	3300	3247	3156	3051	3023
45.0	3086	3030	2937	2831	2801
47.5	2872	2814	2720	2613	2583
50.0	2657	2600	2505	2398	2370
52.5	2444	2390	2294	2187	2173
55.0	2236	2183	2092	1987	1974
57.5	2029	1985	1892	1797	1780
60.0	1834	1783	1697	1607	1590
62.5	1641	1594	1511	1427	1405
65.0	1444	1405	1325	1249	1231
67.5	1249	1215	1145	1082	1063
70.0	1061	1027	971	918	902
72.5	870	855	809	766	751
75.0	705	685	653	620	612
77.5	541	528	511	491	489
80.0	388	384	381	383	386
82.5	248	254	274	293	302
85.0	132	151	193	224	233
87.5	50	78	129	159	168
90.0	8	32	74	103	115

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### ZONAL LUMEN SUMMARY

0- 5	129.
5- 10	383.
10- 15	618.
15- 20	823.
20- 25	988.
25- 30	1108.
30- 35	1178.
35- 40	1196.
40- 45	1167.
45- 50	1098.
50- 55	998.
55- 60	875.
60- 65	736.
65- 70	582.
70- 75	424.
75- 80	276.
80- 85	152.
85- 90	67.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	129
5- 10	383
10- 15	618
15- 20	823
20- 25	988
25- 30	1108
30- 35	1178
35- 40	1196
40- 45	1167
45- 50	1098
50- 55	998
55- 60	875
60- 65	736
65- 70	582
70- 75	424
75- 80	276
80- 85	152
85- 90	67
90- 95	9
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	512
0- 20	1952
0- 30	4048
0- 40	6421
0- 50	8686
0- 60	10560
0- 70	11878
0- 80	12577
0- 90	12797
0-100	12806
0-110	12806
0-120	12806
0-130	12806
0-140	12806
0-150	12806
0-160	12806
0-170	12806
0-180	12806

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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	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

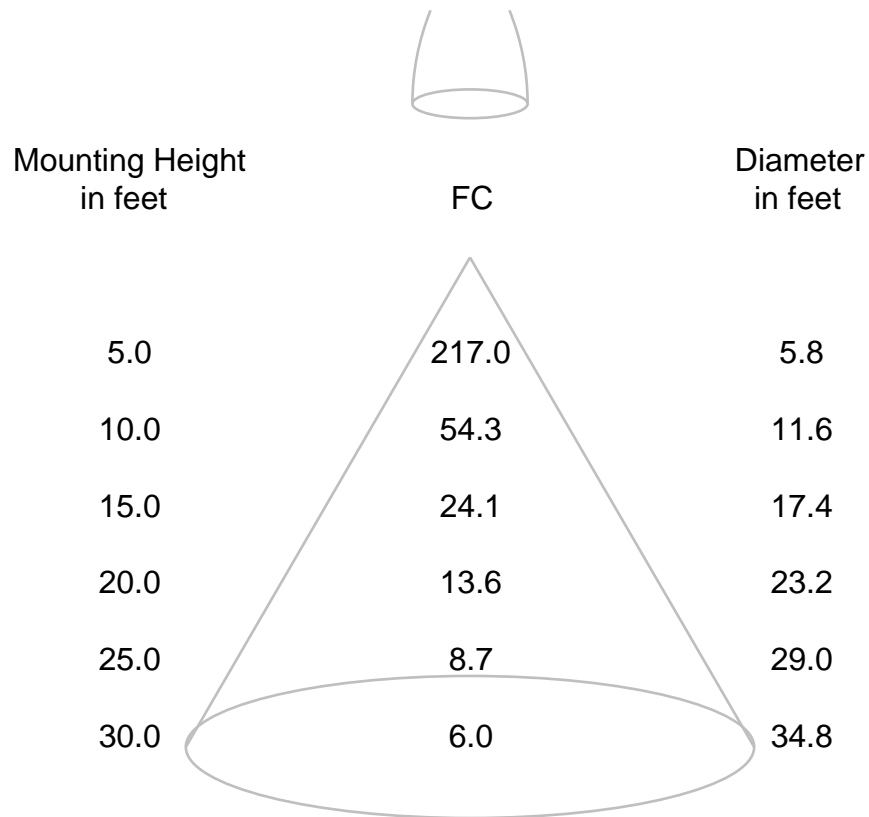
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.