

REPORT NUMBER: SCALED FROM RAB00847

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL95YNW/D10

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, FOUR WHITE
CIRCUIT BOARD WITH SIXTY FOUR LEDS ON EACH BOARD, METAL REFLECTOR
WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.
LAMPS: TWO HUNDRED AND FIFTY SIX LIGHT EMITTING DIODES (LEDs).

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 91.7 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

(SEE PAGE 2 FOR MORE INFORMATION)

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CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	4134	4134	4134	4134	4134	
5	4113	4112	4111	4111	4112	390
15	3946	3924	3898	3909	3923	1103
25	3590	3537	3470	3512	3551	1621
35	3073	2985	2873	2954	3021	1854
45	2446	2343	2203	2301	2385	1788
55	1791	1687	1560	1642	1728	1492
65	1162	1077	984	1047	1117	1055
75	582	536	484	511	542	563
85	121	146	164	135	94	166
90	8	50	69	42	3	
95	0	3	11	1	1	12
105	1	1	1	1	1	1
115	1	1	1	1	1	1
125	1	1	1	1	1	1
135	1	1	2	2	2	1
145	2	2	2	2	2	1
155	2	2	3	3	3	1
165	3	3	3	3	3	1
175	3	3	4	3	3	0
180	3	3	3	3	3	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3115	31.0
0- 40	4969	49.4
0- 60	8249	82.1
0- 90	10033	99.8
90-120	14	0.1
90-130	15	0.1
90-150	18	0.2
90-180	20	0.2
0-180	10053	100.0

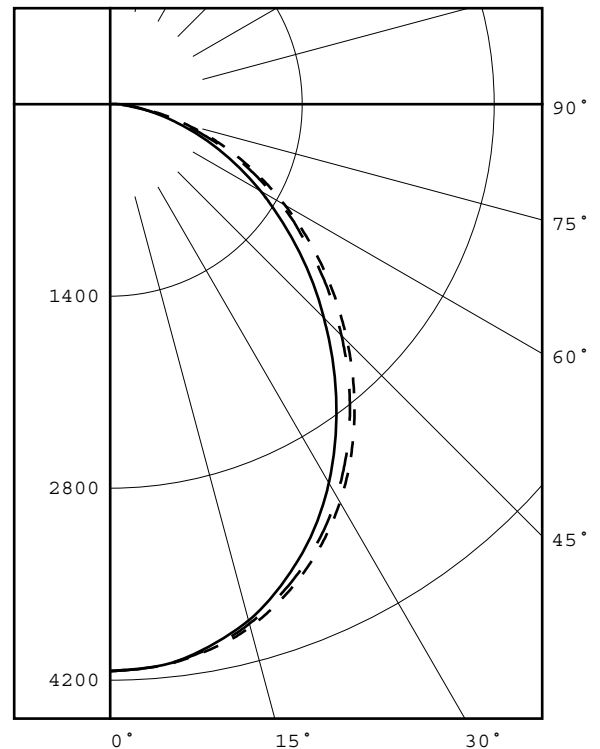
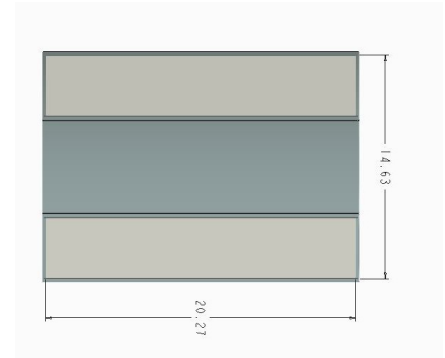
TOTAL INPUT WATTS = 91.7

EFFICACY = 109.6 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.2 1.2



LEGEND:
0-deg: - - - - -
90-deg: - - - - -
180-deg: - - - - -

Checked X.CAO
Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET

DRIVER: RDD-085-A1750

LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

ACCREDITED LABORATORY CODE 201058-0

LED

INDOOR, ARCHITECTURAL, COMMERCIAL DOCK, GYMNASIUM, INDUSTRIAL,
INSTITUTIONAL, MANUFACTURING, POOL, RECREATION, RETAIL, SPORTS,
DIRECT, HIGH BAY, LOW BAY, COLD STORAGE, DAMP LOCATION, WET
LOCATION

CEILING, SURFACE, SUSPENDED

3500

DLC

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 100.7 X 94.3 DEGREES
FIELD ANGLE (10%) : 155.9 X 153.6 DEGREES

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ZONAL LUMEN SUMMARY

0- 5	99.
5- 10	292.
10- 15	472.
15- 20	631.
20- 25	762.
25- 30	859.
30- 35	918.
35- 40	937.
40- 45	919.
45- 50	869.
50- 55	793.
55- 60	698.
60- 65	588.
65- 70	467.
70- 75	342.
75- 80	222.
80- 85	118.
85- 90	48.
90- 95	11.
95-100	1.
100-105	1.
105-110	1.
110-115	1.
115-120	0.
120-125	0.
125-130	1.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	99
5- 10	292
10- 15	472
15- 20	631
20- 25	762
25- 30	859
30- 35	918
35- 40	937
40- 45	919
45- 50	869
50- 55	793
55- 60	698
60- 65	588
65- 70	467
70- 75	342
75- 80	222
80- 85	118
85- 90	48
90- 95	11
95-100	1
100-105	1
105-110	1
110-115	1
115-120	0
120-125	0
125-130	1
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	390
0- 20	1493
0- 30	3115
0- 40	4969
0- 50	6757
0- 60	8249
0- 70	9304
0- 80	9867
0- 90	10033
0-100	10045
0-110	10046
0-120	10047
0-130	10048
0-140	10049
0-150	10051
0-160	10052
0-170	10053
0-180	10053

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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	90	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	72	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	52	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	34	45	39	34	32
9	58	45	37	32	57	44	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	28	38	33	28	27

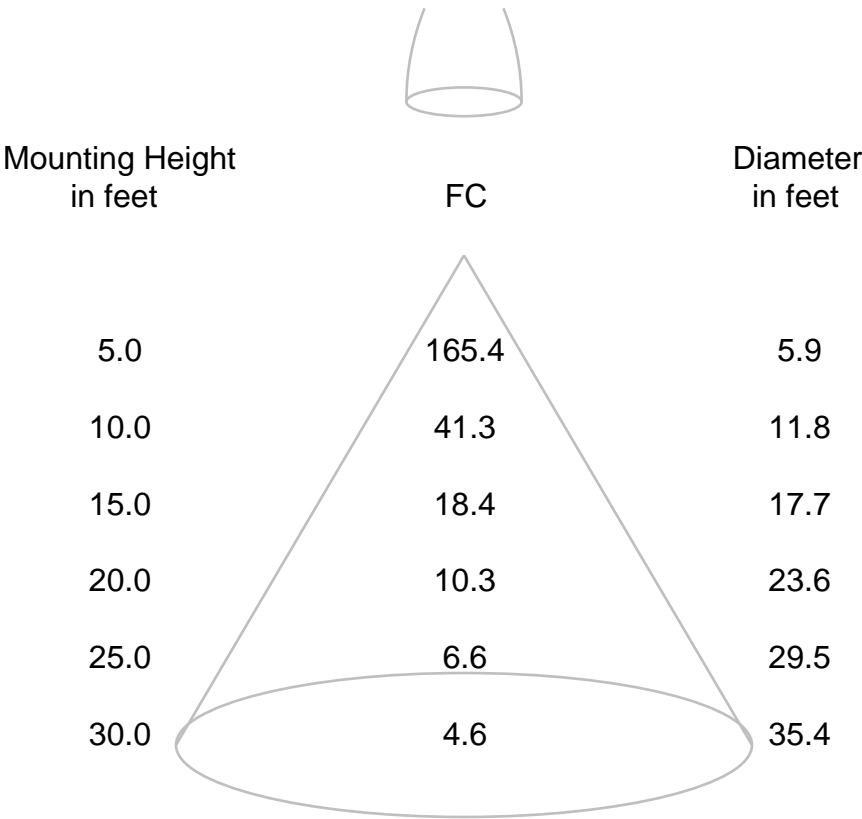
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.