

REPORT NUMBER: SCALED FROM RAB00846

ISSUE DATE: 05/21/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL95NW/347 RCL

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 = 88.5 AT 480.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

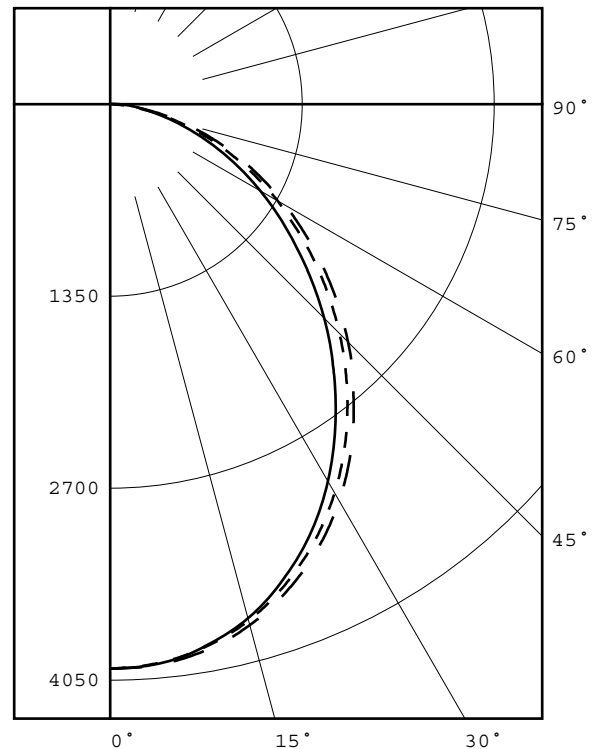
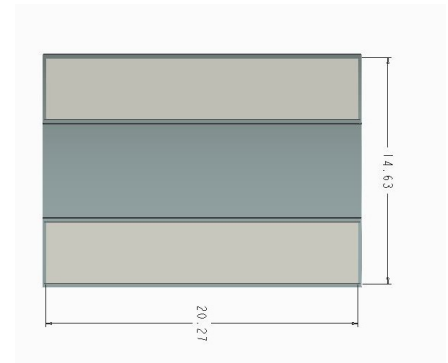
(SEE PAGE 2 FOR MORE INFORMATION)

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CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	3970	3970	3970	3970	3970	
5	3944	3945	3949	3954	3956	375
15	3759	3750	3743	3772	3793	1059
25	3395	3367	3333	3402	3451	1555
35	2885	2827	2760	2874	2954	1779
45	2281	2202	2127	2252	2366	1718
55	1653	1579	1503	1625	1734	1433
65	1063	1001	947	1040	1125	1010
75	517	487	468	519	565	537
85	90	129	158	143	118	158
90	1	41	68	49	10	
95	0	2	12	3	1	12
105	1	1	1	1	1	1
115	1	1	1	2	1	1
125	1	1	1	1	1	1
135	1	2	2	2	2	1
145	2	2	2	2	2	1
155	2	3	3	3	3	1
165	3	3	3	3	3	1
175	3	3	4	4	3	0
180	4	4	4	4	4	

FLUX



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2989	31.0
0- 40	4768	49.4
0- 60	7918	82.1
0- 90	9623	99.8
90-120	14	0.1
90-130	15	0.2
90-150	17	0.2
90-180	19	0.2
0-180	9643	100.0

TOTAL INPUT WATTS = 88.5

EFFICACY = 109.0 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.2 1.2

Checked X.CAO
Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

TEST DISTANCE: 28.25 FEET
DRIVER: RD-H100-A2000-480
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
4000
DLC

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 100.7 X 94.5 DEGREES
FIELD ANGLE (10%) : 155.9 X 153.6 DEGREES

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ZONAL LUMEN SUMMARY

0- 5	95.
5- 10	280.
10- 15	453.
15- 20	606.
20- 25	731.
25- 30	824.
30- 35	880.
35- 40	899.
40- 45	883.
45- 50	835.
50- 55	762.
55- 60	670.
60- 65	563.
65- 70	447.
70- 75	326.
75- 80	211.
80- 85	112.
85- 90	45.
90- 95	11.
95-100	1.
100-105	1.
105-110	1.
110-115	1.
115-120	1.
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	95
5- 10	280
10- 15	453
15- 20	606
20- 25	731
25- 30	824
30- 35	880
35- 40	899
40- 45	883
45- 50	835
50- 55	762
55- 60	670
60- 65	563
65- 70	447
70- 75	326
75- 80	211
80- 85	112
85- 90	45
90- 95	11
95-100	1
100-105	1
105-110	1
110-115	1
115-120	1
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	375
0- 20	1434
0- 30	2989
0- 40	4768
0- 50	6486
0- 60	7918
0- 70	8928
0- 80	9465
0- 90	9623
0-100	9635
0-110	9636
0-120	9637
0-130	9638
0-140	9639
0-150	9640
0-160	9641
0-170	9642
0-180	9643

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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	72	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	34	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	28	38	33	28	27

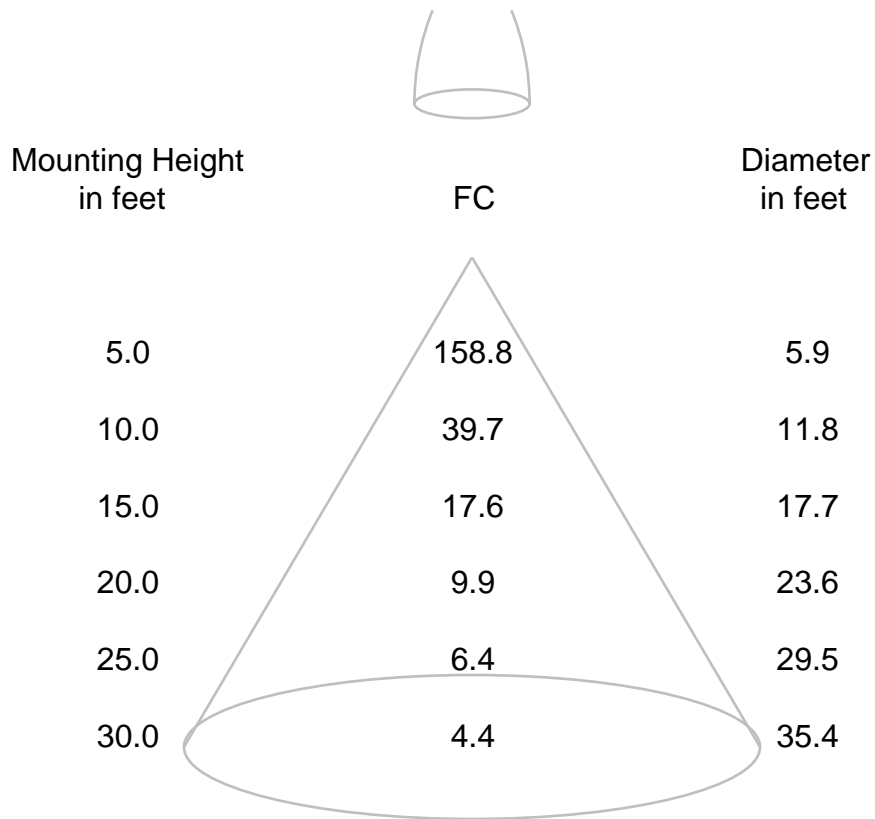
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.