

REPORT NUMBER: SCALED FROM RAB00846

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL95NW/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 = 91.2 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	4049	4049	4049	4049	4049	
5	4023	4024	4028	4032	4034	382
15	3834	3824	3817	3847	3869	1080
25	3463	3435	3399	3470	3520	1586
35	2943	2884	2815	2931	3013	1814
45	2327	2246	2170	2297	2413	1752
55	1686	1610	1533	1657	1768	1461
65	1084	1021	966	1060	1148	1030
75	527	497	477	529	576	548
85	92	132	161	146	121	161
90	1	42	70	50	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	

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3048	31.0
0- 40	4863	49.4
0- 60	8076	82.1
0- 90	9815	99.8
90-120	14	0.1
90-130	15	0.2
90-150	17	0.2
90-180	20	0.2
0-180	9835	100.0

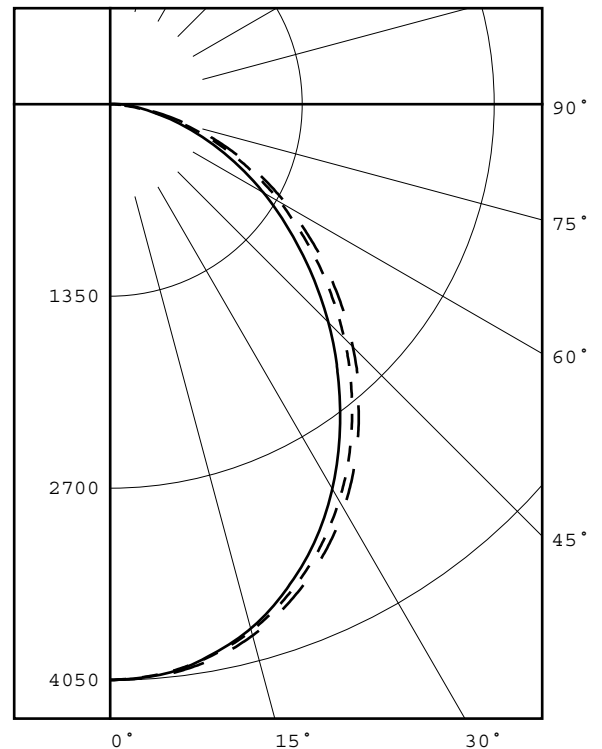
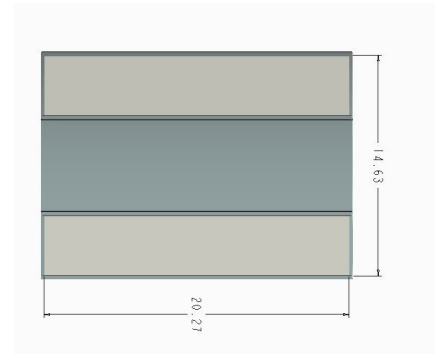
TOTAL INPUT WATTS = 91.2

EFFICACY = 107.8 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

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	97.
5- 10	286.
10- 15	462.
15- 20	618.
20- 25	746.
25- 30	841.
30- 35	898.
35- 40	917.
40- 45	900.
45- 50	852.
50- 55	778.
55- 60	684.
60- 65	575.
65- 70	456.
70- 75	333.
75- 80	215.
80- 85	114.
85- 90	46.
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	97
5- 10	286
10- 15	462
15- 20	618
20- 25	746
25- 30	841
30- 35	898
35- 40	917
40- 45	900
45- 50	852
50- 55	778
55- 60	684
60- 65	575
65- 70	456
70- 75	333
75- 80	215
80- 85	114
85- 90	46
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	382
0- 20	1462
0- 30	3048
0- 40	4863
0- 50	6615
0- 60	8076
0- 70	9107
0- 80	9654
0- 90	9815
0-100	9827
0-110	9828
0-120	9829
0-130	9830
0-140	9831
0-150	9833
0-160	9834
0-170	9835
0-180	9835

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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

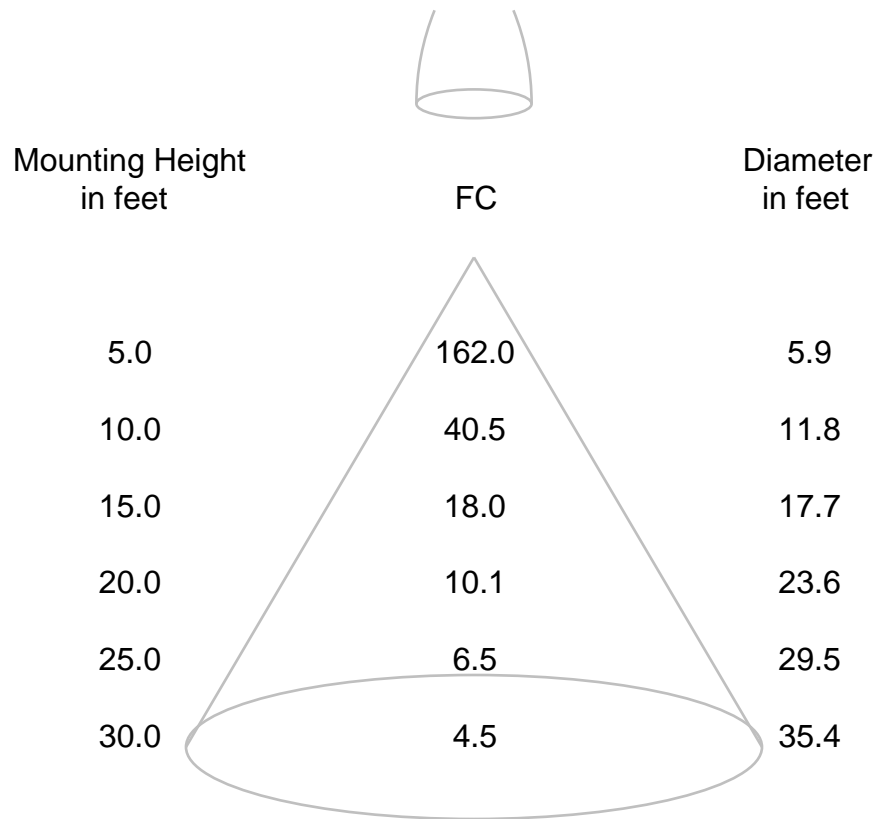
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.