

REPORT NUMBER: SCALED FROM RAB00834

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185NW/D10

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, SIX WHITE CIRCUIT BOARD WITH NINETY SIX LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

LAMPS: FIVE HUNDRED AND SEVENTY SIX LIGHT EMITTING DIODES (LEDs).

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 179.5 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

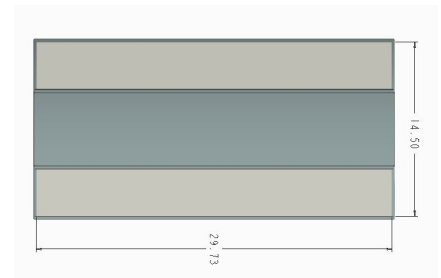
(SEE PAGE 2 FOR MORE INFORMATION)

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CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	8255	8255	8255	8255	8255	
5	8178	8209	8248	8204	8166	779
15	7830	7796	7765	7773	7792	2194
25	7130	7001	6844	6951	7064	3210
35	6118	5880	5644	5831	6035	3663
45	4897	4604	4310	4548	4833	3535
55	3606	3301	3025	3252	3538	2946
65	2345	2103	1892	2054	2277	2079
75	1182	1045	922	1004	1119	1105
85	241	267	281	247	200	309
90	12	81	109	68	6	
95	1	6	17	4	3	20
105	2	2	4	5	5	4
115	2	3	4	4	5	4
125	3	3	4	5	5	4
135	4	4	5	6	7	4
145	5	5	6	7	8	4
155	6	6	8	8	8	3
165	6	7	8	9	9	2
175	7	8	10	10	10	1
180	9	9	9	9	9	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	6183	31.1
0- 40	9846	49.6
0- 60	16328	82.2
0- 90	19820	99.8
90-120	27	0.1
90-130	30	0.2
90-150	38	0.2
90-180	45	0.2
0-180	19865	100.0

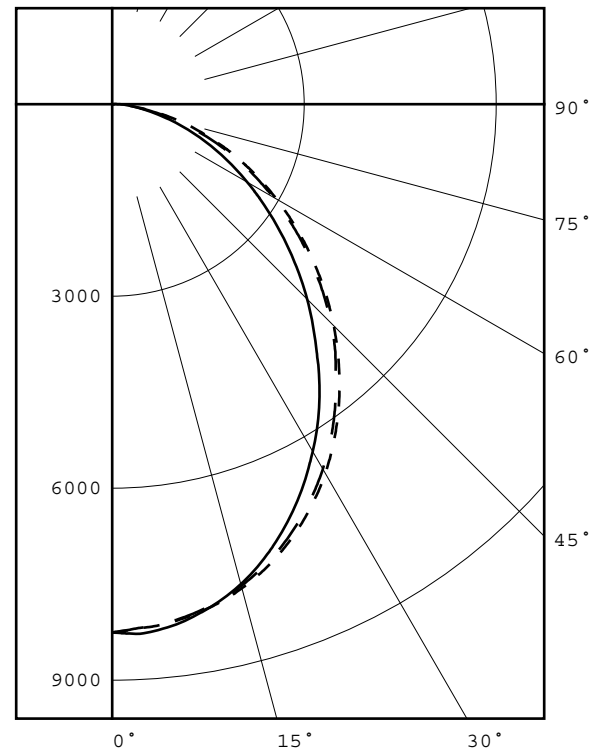
TOTAL INPUT WATTS = 179.5

EFFICACY = 110.7 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.1 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: 2 X 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%) : 101.2 X 92.5 DEGREES
FIELD ANGLE (10%) : 156.1 X 152.3 DEGREES

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ZONAL LUMEN SUMMARY

0- 5	197.
5- 10	582.
10- 15	940.
15- 20	1254.
20- 25	1511.
25- 30	1699.
30- 35	1813.
35- 40	1850.
40- 45	1816.
45- 50	1719.
50- 55	1568.
55- 60	1378.
60- 65	1159.
65- 70	920.
70- 75	673.
75- 80	432.
80- 85	225.
85- 90	84.
90- 95	17.
95-100	2.
100-105	2.
105-110	2.
110-115	2.
115-120	2.
120-125	2.
125-130	2.
130-135	2.
135-140	2.
140-145	2.
145-150	2.
150-155	2.
155-160	2.
160-165	1.
165-170	1.
170-175	1.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	197
5- 10	582
10- 15	940
15- 20	1254
20- 25	1511
25- 30	1699
30- 35	1813
35- 40	1850
40- 45	1816
45- 50	1719
50- 55	1568
55- 60	1378
60- 65	1159
65- 70	920
70- 75	673
75- 80	432
80- 85	225
85- 90	84
90- 95	17
95-100	2
100-105	2
105-110	2
110-115	2
115-120	2
120-125	2
125-130	2
130-135	2
135-140	2
140-145	2
145-150	2
150-155	2
155-160	2
160-165	1
165-170	1
170-175	1
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	779
0- 20	2973
0- 30	6183
0- 40	9846
0- 50	13381
0- 60	16328
0- 70	18407
0- 80	19511
0- 90	19820
0-100	19840
0-110	19843
0-120	19847
0-130	19850
0-140	19854
0-150	19858
0-160	19862
0-170	19864
0-180	19865

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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	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	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	76	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

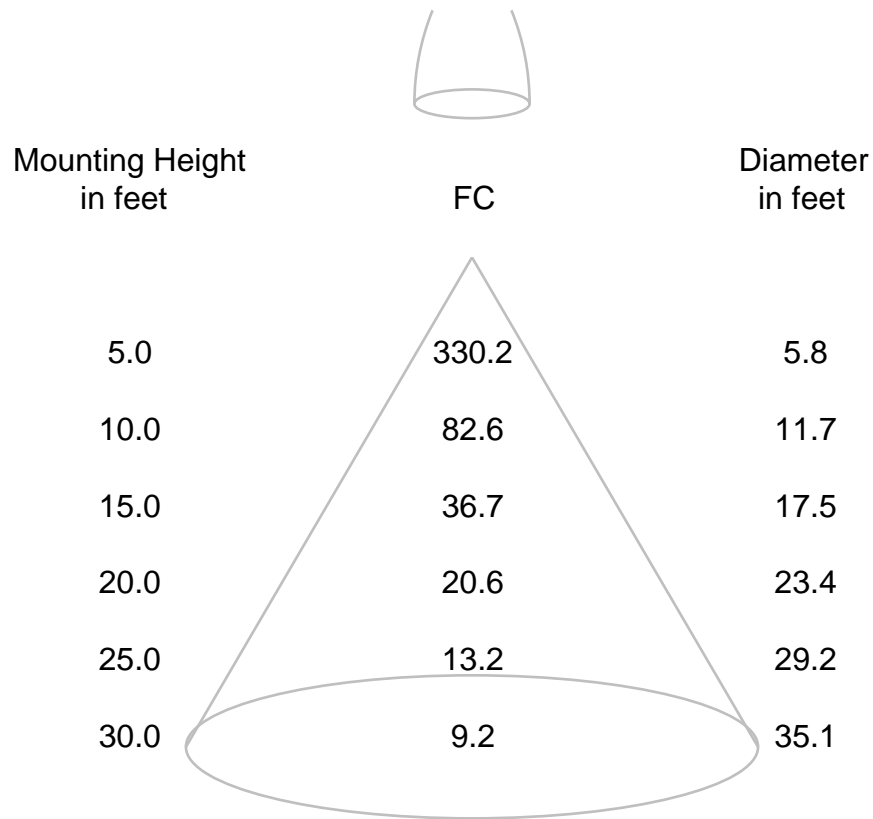
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.