

REPORT NUMBER: SCALED FROM RAB00835

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185YNW/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 = 181.9 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

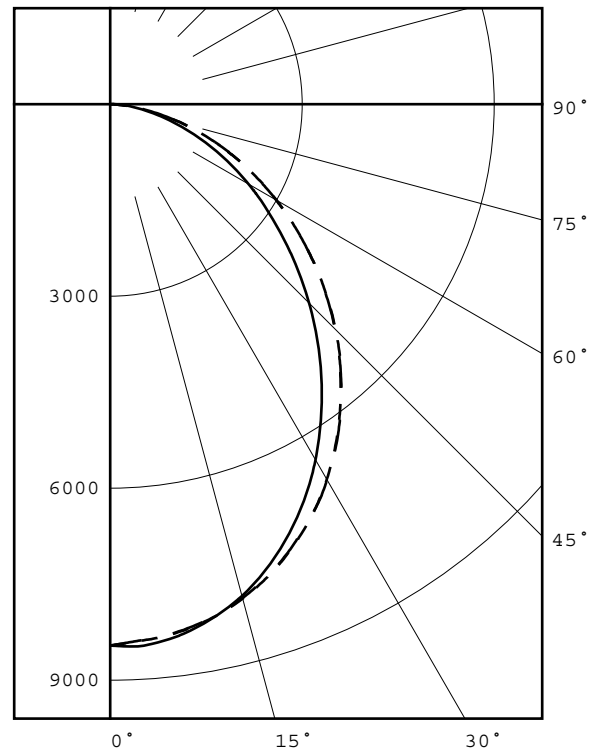
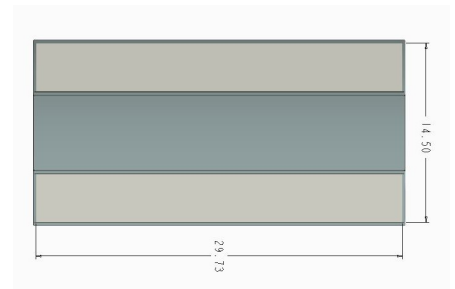
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

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### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	8459	8459	8459	8459	8459	
5	8372	8405	8445	8403	8367	798
15	7999	7975	7955	7966	7987	2246
25	7260	7141	7013	7133	7245	3283
35	6207	6003	5755	5990	6224	3744
45	4983	4676	4396	4663	4968	3608
55	3652	3341	3076	3330	3648	3002
65	2363	2132	1936	2109	2361	2121
75	1177	1055	933	1046	1177	1127
85	227	255	270	252	222	306
90	12	70	98	68	6	
95	5	4	10	2	2	17
105	5	3	2	3	3	4
115	5	4	3	3	3	3
125	5	3	3	3	3	3
135	4	4	3	4	4	3
145	4	4	4	5	5	3
155	5	5	5	5	6	2
165	5	5	6	6	6	2
175	5	6	7	7	7	1
180	7	7	7	7	7	

### FLUX



LEGEND:  
0-deg: - - - - -  
90-deg: \_\_\_\_\_  
180-deg: - - - - -

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	6327	31.2
0- 40	10071	49.7
0- 60	16682	82.3
0- 90	20236	99.8
90-120	23	0.1
90-130	26	0.1
90-150	32	0.2
90-180	37	0.2
0-180	20272	100.0

TOTAL INPUT WATTS = 181.9

EFFICACY = 111.4 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.2 1.1 1.2

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  
3500  
DLC

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 101.1 X 92.3 DEGREES  
FIELD ANGLE (10%) : 156.1 X 152.1 DEGREES



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## ZONAL LUMEN SUMMARY

0- 5	202.
5- 10	596.
10- 15	962.
15- 20	1284.
20- 25	1545.
25- 30	1738.
30- 35	1853.
35- 40	1891.
40- 45	1855.
45- 50	1754.
50- 55	1598.
55- 60	1404.
60- 65	1182.
65- 70	939.
70- 75	687.
75- 80	440.
80- 85	226.
85- 90	80.
90- 95	15.
95-100	2.
100-105	2.
105-110	2.
110-115	2.
115-120	2.
120-125	2.
125-130	1.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	1.
165-170	1.
170-175	0.
175-180	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	202
5- 10	596
10- 15	962
15- 20	1284
20- 25	1545
25- 30	1738
30- 35	1853
35- 40	1891
40- 45	1855
45- 50	1754
50- 55	1598
55- 60	1404
60- 65	1182
65- 70	939
70- 75	687
75- 80	440
80- 85	226
85- 90	80
90- 95	15
95-100	2
100-105	2
105-110	2
110-115	2
115-120	2
120-125	2
125-130	1
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	798
0- 20	3044
0- 30	6327
0- 40	10071
0- 50	13679
0- 60	16682
0- 70	18802
0- 80	19929
0- 90	20236
0-100	20252
0-110	20256
0-120	20259
0-130	20262
0-140	20265
0-150	20268
0-160	20270
0-170	20272
0-180	20272

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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	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	57	66	61	56	64	59	55	53
5	78	65	57	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	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

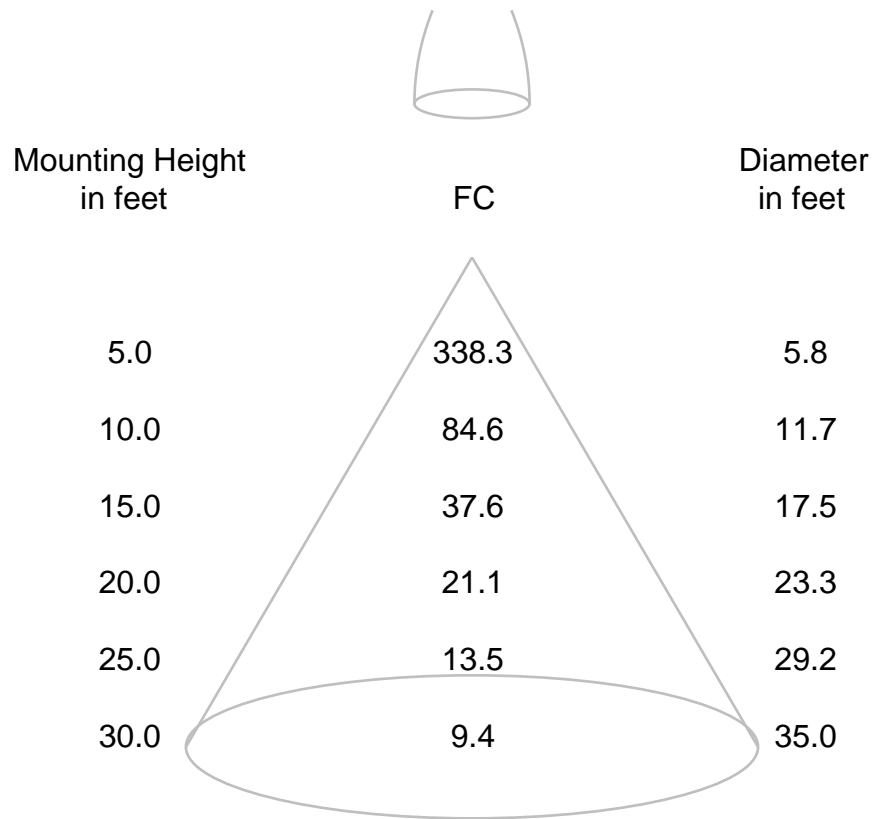
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.