

REPORT NUMBER: SCALED FROM RAB00835

ISSUE DATE: 05/21/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185YNW/480

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 = 176.5 AT 480.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

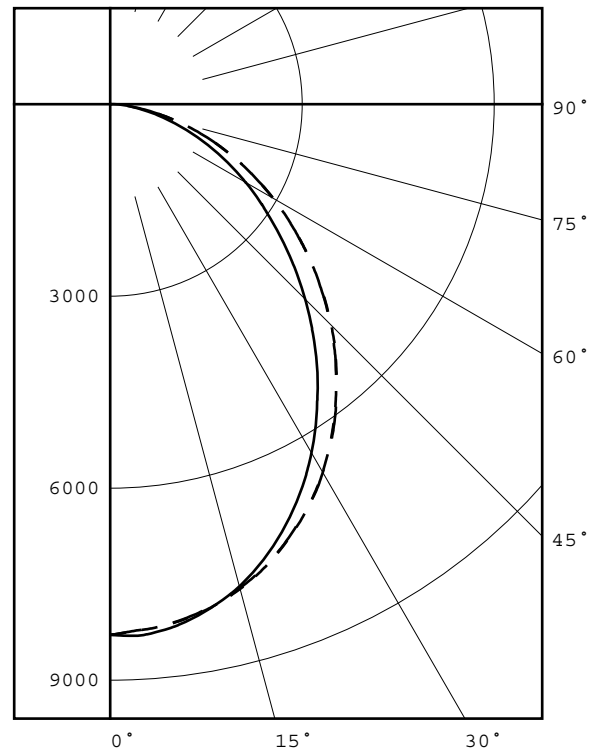
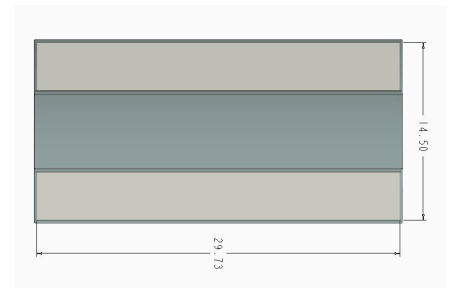
(SEE PAGE 2 FOR MORE INFORMATION)

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CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	
0	8293	8293	8293	8293	8293	
5	8208	8240	8279	8238	8203	782
15	7842	7819	7799	7810	7831	2202
25	7118	7001	6876	6993	7103	3219
35	6086	5885	5642	5873	6102	3671
45	4885	4584	4310	4571	4871	3538
55	3581	3276	3016	3265	3576	2944
65	2317	2090	1898	2068	2315	2079
75	1154	1035	914	1025	1154	1105
85	222	250	265	247	218	300
90	12	68	96	66	6	
95	5	4	10	2	2	16
105	5	3	2	3	3	3
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	6203	31.2
0- 40	9874	49.7
0- 60	16355	82.3
0- 90	19839	99.8
90-120	23	0.1
90-130	26	0.1
90-150	31	0.2
90-180	36	0.2
0-180	19875	100.0

TOTAL INPUT WATTS = 176.5

EFFICACY = 112.6 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 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
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	198.
5- 10	584.
10- 15	944.
15- 20	1259.
20- 25	1515.
25- 30	1704.
30- 35	1817.
35- 40	1854.
40- 45	1818.
45- 50	1719.
50- 55	1567.
55- 60	1376.
60- 65	1159.
65- 70	921.
70- 75	673.
75- 80	431.
80- 85	222.
85- 90	79.
90- 95	14.
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	198
5- 10	584
10- 15	944
15- 20	1259
20- 25	1515
25- 30	1704
30- 35	1817
35- 40	1854
40- 45	1818
45- 50	1719
50- 55	1567
55- 60	1376
60- 65	1159
65- 70	921
70- 75	673
75- 80	431
80- 85	222
85- 90	79
90- 95	14
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	782
0- 20	2984
0- 30	6203
0- 40	9874
0- 50	13411
0- 60	16355
0- 70	18434
0- 80	19539
0- 90	19839
0-100	19856
0-110	19859
0-120	19862
0-130	19865
0-140	19868
0-150	19871
0-160	19873
0-170	19875
0-180	19875

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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	65	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

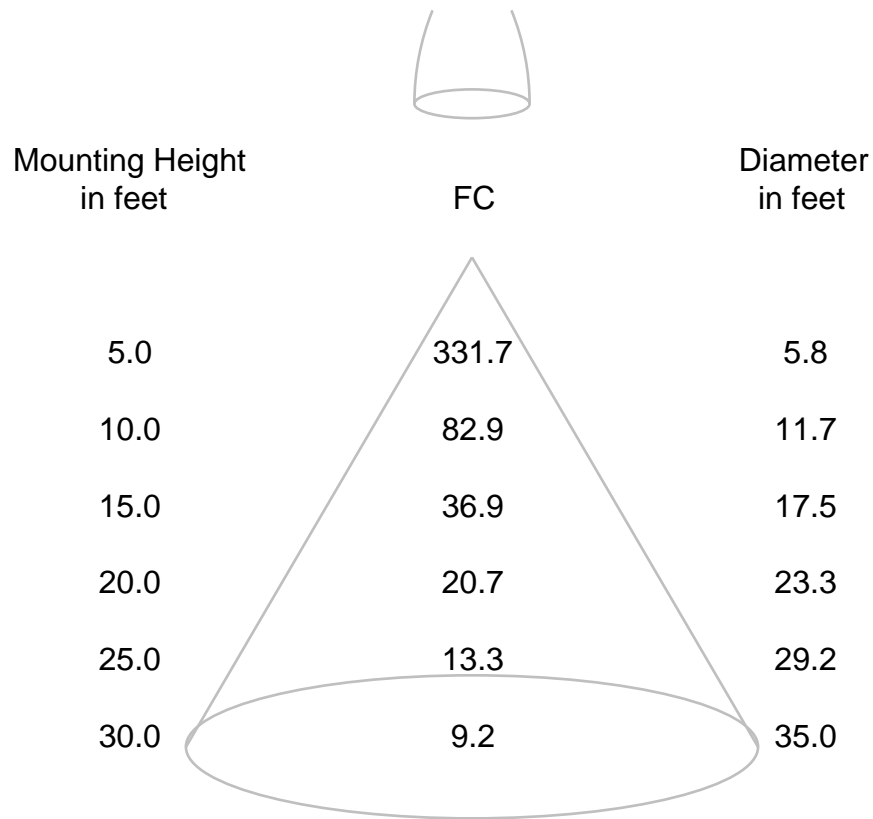
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.