

REPORT NUMBER: SCALED FROM RAB00746

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ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCOR80W/480

LUMINAIRE: ONE LUMINAIRE CONSISTING OF TWO OPPOSING LIGHT HEADS, EACH LIGHT HEAD CONSISTING OF: CAST FINNED METAL HOUSING, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, ONE CIRCUIT BOARD WITH 16 LEDS, CLEAR FLAT PRISMATIC GLASS LENS.

LAMP: THIRTY-TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

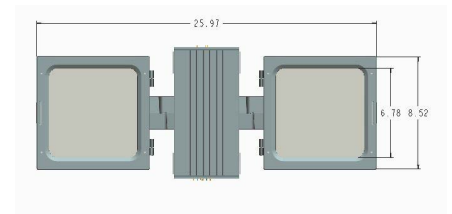
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2679	2679	2679	2679	2679
5	2701	2704	2691	2674	2684
15	2570	2565	2558	2548	2555
25	2436	2391	2350	2383	2437
35	2303	2224	2122	2149	2215
45	1898	1858	1784	1777	1807
55	1200	1269	1383	1246	1201
65	544	616	751	645	590
75	193	223	279	254	228
85	30	37	48	45	38
90	2	2	2	3	2
95	0	0	1	1	1
105	0	0	1	1	1
115	1	1	1	1	1
125	1	1	1	1	1
135	1	1	1	1	1
145	2	2	2	2	2
155	2	2	2	2	2
165	2	2	2	2	2
175	2	2	2	2	2
180	2	2	2	2	2

FLUX

255
722
1103
1364
1397
1134
650
265
53
1
1
1
1
1
1
1
1
1
1
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2080	29.9
0- 40	3444	49.6
0- 60	5975	86.0
0- 90	6943	99.9
90-120	3	0.0
90-130	4	0.1
90-150	6	0.1
90-180	7	0.1
0-180	6950	100.0

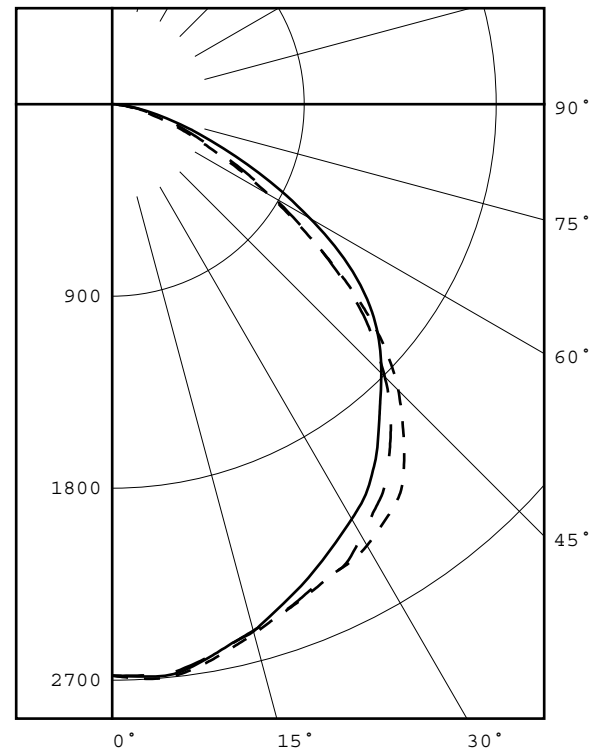
TOTAL INPUT WATTS = 77.3

EFFICACY = 89.9 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.3 1.3



LEGEND:

0-deg: - - - - -
 45-deg: _____
 90-deg: - - - - -

Checked X.CAO
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
TOTAL INPUT WATTS =77.3 AT 480.0 VAC.
LED DRIVER: RD-S075-A1400/480
TEST PROCEDURE: IESNA LM-79-08
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 106.2 X 105.6 DEGREES
FIELD ANGLE (10%) : 144.3 X 147.3 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	2679	2679	2679	2679	2679
5.0	2701	2704	2691	2674	2684
10.0	2649	2646	2631	2619	2628
15.0	2570	2565	2558	2548	2555
20.0	2497	2473	2454	2469	2494
25.0	2436	2391	2350	2383	2437
30.0	2390	2310	2246	2289	2340
35.0	2303	2224	2122	2149	2215
40.0	2129	2063	1947	1970	2031
45.0	1898	1858	1784	1777	1807
50.0	1592	1600	1613	1537	1538
55.0	1200	1269	1383	1246	1201
60.0	845	919	1073	933	875
65.0	544	616	751	645	590
70.0	341	381	478	423	381
75.0	193	223	279	254	228
80.0	97	113	137	132	118
85.0	30	37	48	45	38
90.0	2	2	2	3	2
95.0	0	0	1	1	1
100.0	0	1	1	1	1
105.0	0	0	1	1	1
110.0	1	1	1	1	1
115.0	1	1	1	1	1
120.0	1	1	1	1	1
125.0	1	1	1	1	1
130.0	1	1	1	1	2
135.0	1	1	1	1	1
140.0	1	2	1	2	2
145.0	2	2	2	2	2
150.0	2	2	2	2	2
155.0	2	2	2	2	2
160.0	2	2	2	2	2
165.0	2	2	2	2	2
170.0	2	2	2	2	2
175.0	2	2	2	2	2
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

0- 5	64.
5- 10	191.
10- 15	308.
15- 20	414.
20- 25	509.
25- 30	594.
30- 35	662.
35- 40	702.
40- 45	710.
45- 50	687.
50- 55	622.
55- 60	513.
60- 65	385.
65- 70	264.
70- 75	169.
75- 80	96.
80- 85	43.
85- 90	10.
90- 95	1.
95-100	0.
100-105	0.
105-110	0.
110-115	1.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	1.
145-150	1.
150-155	1.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	64
5- 10	191
10- 15	308
15- 20	414
20- 25	509
25- 30	594
30- 35	662
35- 40	702
40- 45	710
45- 50	687
50- 55	622
55- 60	513
60- 65	385
65- 70	264
70- 75	169
75- 80	96
80- 85	43
85- 90	10
90- 95	1
95-100	0
100-105	0
105-110	0
110-115	1
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	1
145-150	1
150-155	1
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	255
0- 20	977
0- 30	2080
0- 40	3444
0- 50	4841
0- 60	5975
0- 70	6625
0- 80	6889
0- 90	6943
0-100	6944
0-110	6945
0-120	6946
0-130	6946
0-140	6947
0-150	6948
0-160	6949
0-170	6950
0-180	6950

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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
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	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

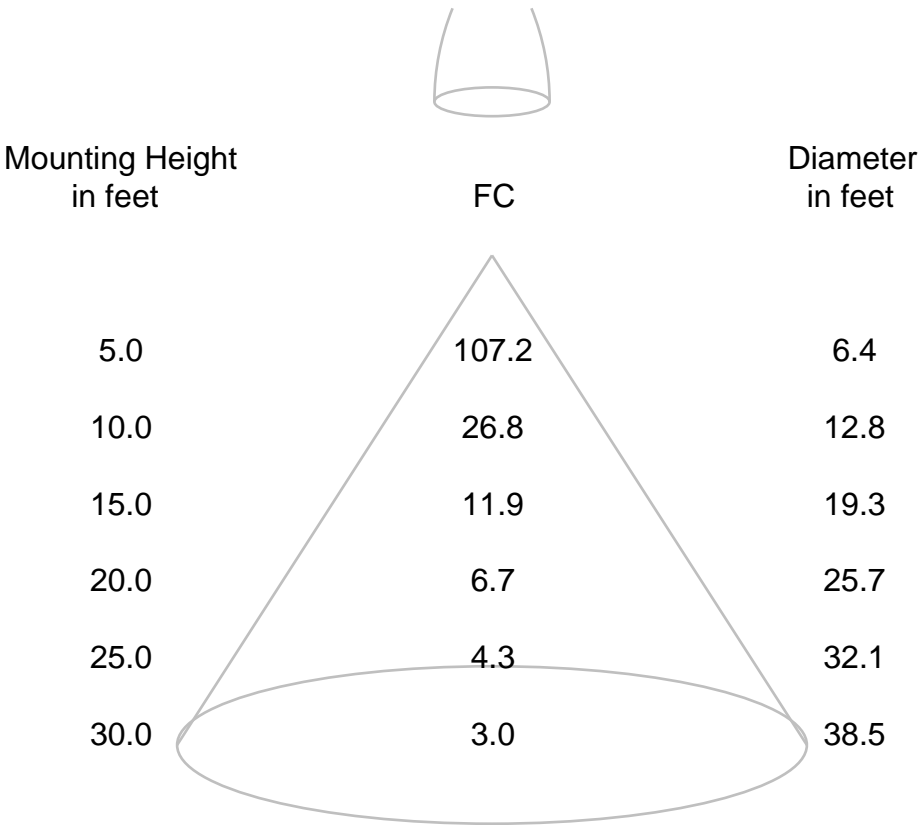
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.