

REPORT NUMBER: SCALED FROM RAB00754

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCOR80YW/D10

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)\*

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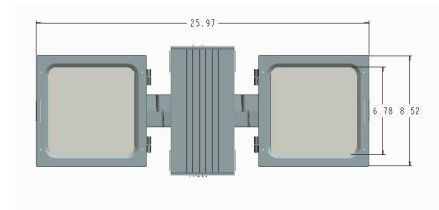
DATE SAMPLE TESTED: 03/17/15

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2553	2553	2553	2553	2553
5	2549	2549	2537	2523	2528
15	2387	2381	2371	2361	2379
25	2222	2172	2140	2177	2239
35	2095	1988	1911	1992	2080
45	1717	1739	1772	1674	1663
55	907	1000	1170	964	883
65	338	383	469	390	355
75	107	116	136	126	120
85	27	28	31	32	31
90	1	1	1	2	2
95	0	0	0	0	0
105	0	1	1	1	1
115	1	1	1	1	1
125	1	1	1	1	1
135	1	1	1	1	1
145	2	1	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

240
669
1005
1251
1308
905
407
139
34
1
1
1
1
1
1
1
1
1
0



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1915	32.1
0- 40	3166	53.1
0- 60	5379	90.2
0- 90	5959	99.9
90-120	2	0.0
90-130	3	0.1
90-150	5	0.1
90-180	7	0.1
0-180	5966	100.0

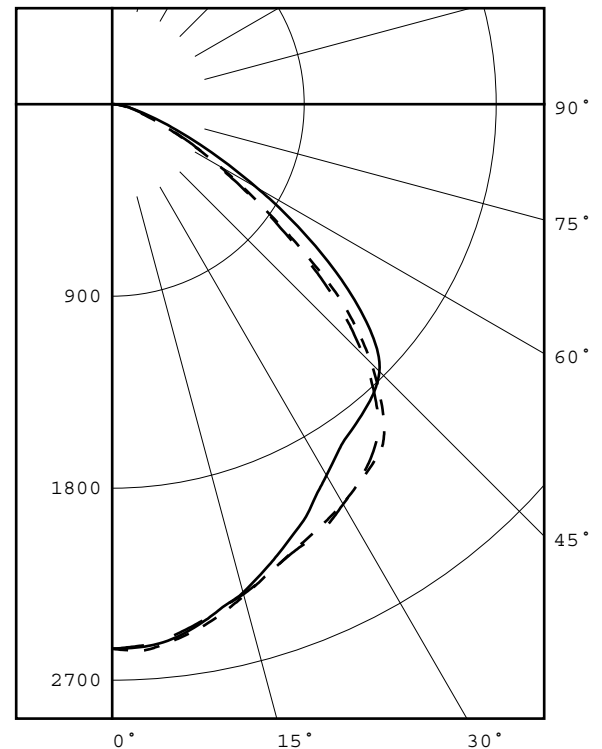
TOTAL INPUT WATTS = 83.6

EFFICACY = 71.4 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 = 83.6 AT 120.0 VAC.  
LED DRIVER: RDD-075-A1400  
TEST PROCEDURE: IESNA LM-79-08  
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 101.6 X 100.2 DEGREES  
FIELD ANGLE (10%) : 134.9 X 135.9 DEGREES

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### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	2553	2553	2553	2553	2553
5.0	2549	2549	2537	2523	2528
10.0	2482	2480	2463	2451	2456
15.0	2387	2381	2371	2361	2379
20.0	2293	2276	2254	2267	2294
25.0	2222	2172	2140	2177	2239
30.0	2162	2071	2010	2082	2166
35.0	2095	1988	1911	1992	2080
40.0	1984	1923	1854	1880	1939
45.0	1717	1739	1772	1674	1663
50.0	1360	1426	1532	1348	1292
55.0	907	1000	1170	964	883
60.0	581	635	786	627	566
65.0	338	383	469	390	355
70.0	191	213	260	225	204
75.0	107	116	136	126	120
80.0	60	63	73	74	73
85.0	27	28	31	32	31
90.0	1	1	1	2	2
95.0	0	0	0	0	0
100.0	0	1	1	1	1
105.0	0	1	1	1	1
110.0	0	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	1
135.0	1	1	1	1	1
140.0	1	1	1	2	1
145.0	2	1	2	2	2
150.0	1	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	61.
5- 10	179.
10- 15	287.
15- 20	383.
20- 25	466.
25- 30	539.
30- 35	600.
35- 40	651.
40- 45	673.
45- 50	635.
50- 55	524.
55- 60	381.
60- 65	253.
65- 70	154.
70- 75	89.
75- 80	50.
80- 85	27.
85- 90	8.
90- 95	0.
95-100	0.
100-105	0.
105-110	0.
110-115	0.
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	61
5- 10	179
10- 15	287
15- 20	383
20- 25	466
25- 30	539
30- 35	600
35- 40	651
40- 45	673
45- 50	635
50- 55	524
55- 60	381
60- 65	253
65- 70	154
70- 75	89
75- 80	50
80- 85	27
85- 90	8
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
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	240
0- 20	909
0- 30	1915
0- 40	3166
0- 50	4473
0- 60	5379
0- 70	5786
0- 80	5925
0- 90	5959
0-100	5960
0-110	5961
0-120	5962
0-130	5963
0-140	5964
0-150	5965
0-160	5966
0-170	5966
0-180	5966

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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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

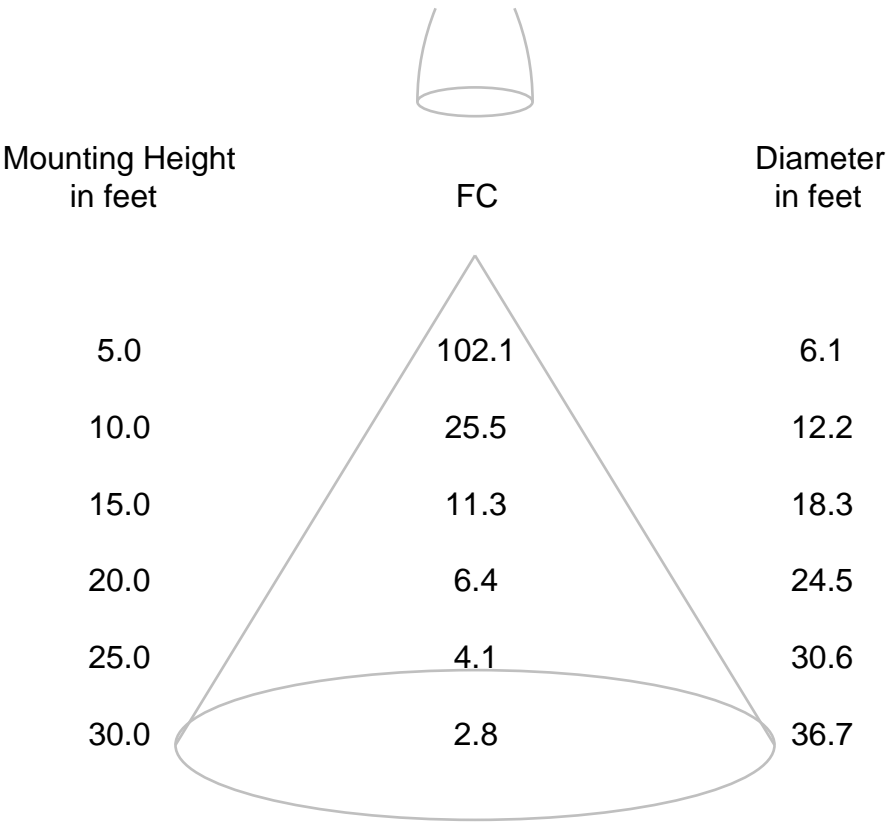
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.