

REPORT NUMBER: SCALED FROM RAB00905

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA80W/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.

LAMPS: THIRTY TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), TILTED 15-DEGREES FROM VERTICAL BASE-UP POSITION.

(SEE PAGE 2 FOR MORE INFORMATION)

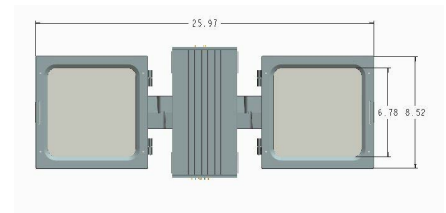
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DATE SAMPLE TESTED: 05/22/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	6780	6780	6780	6780	6780	
5	6407	6435	6574	6649	6709	596
15	3364	3577	4400	5767	6384	1300
25	1685	1876	2542	4167	5763	1410
35	416	611	1380	2776	4855	1169
45	77	121	537	1766	3952	867
55	42	54	155	1045	2948	618
65	27	32	56	530	1897	396
75	14	18	29	223	1119	224
85	3	7	16	94	576	113
90	0	4	10	57	361	
95	0	2	5	28	186	36
105	0	2	0	0	1	2
115	0	2	0	0	0	0
125	0	2	1	0	0	1
135	0	2	1	1	1	1
145	1	3	3	1	1	1
155	1	4	3	1	0	1
165	3	5	3	0	0	1
175	4	6	4	1	0	0
180	4	4	4	4	4	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3306	49.1
0- 40	4474	66.4
0- 60	5960	88.5
0- 90	6692	99.4
90-120	39	0.6
90-130	40	0.6
90-150	42	0.6
90-180	44	0.6
0-180	6736	100.0

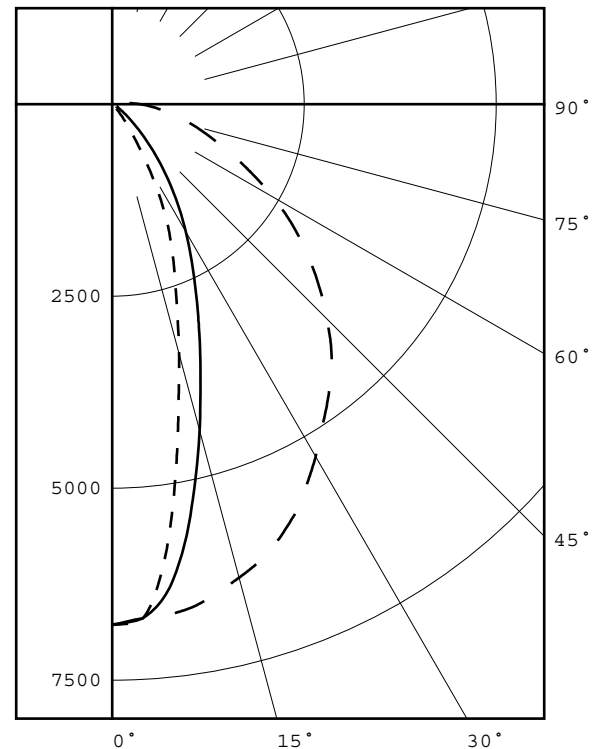
TOTAL INPUT WATTS = 77.3

EFFICACY = 87.1 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 0.5 1.2



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%) : 29.8 X 101.3 DEGREES
FIELD ANGLE (10%): 64.0 X 165.9 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	6780	6780	6780	6780	6780
5.0	6407	6435	6574	6649	6709
10.0	4797	4984	5649	6351	6600
15.0	3364	3577	4400	5767	6384
20.0	2386	2580	3343	4982	6129
25.0	1685	1876	2542	4167	5763
30.0	930	1213	1913	3424	5299
35.0	416	611	1380	2776	4855
40.0	154	279	917	2254	4442
45.0	77	121	537	1766	3952
50.0	57	73	291	1368	3454
55.0	42	54	155	1045	2948
60.0	33	41	86	773	2419
65.0	27	32	56	530	1897
70.0	20	25	40	345	1461
75.0	14	18	29	223	1119
80.0	8	12	21	146	827
85.0	3	7	16	94	576
90.0	0	4	10	57	361
95.0	0	2	5	28	186
100.0	0	2	0	7	55
105.0	0	2	0	0	1
110.0	0	2	0	0	0
115.0	0	2	0	0	0
120.0	0	2	0	0	0
125.0	0	2	1	0	0
130.0	0	2	1	0	0
135.0	0	2	1	1	1
140.0	0	2	2	1	1
145.0	1	3	3	1	1
150.0	1	3	3	1	0
155.0	1	4	3	1	0
160.0	2	4	3	0	0
165.0	3	5	3	0	0
170.0	3	5	3	0	0
175.0	4	6	4	1	0
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

0- 5	160.
5- 10	437.
10- 15	608.
15- 20	692.
20- 25	717.
25- 30	693.
30- 35	624.
35- 40	545.
40- 45	468.
45- 50	398.
50- 55	338.
55- 60	281.
60- 65	224.
65- 70	172.
70- 75	129.
75- 80	95.
80- 85	68.
85- 90	45.
90- 95	26.
95-100	11.
100-105	2.
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	0.
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	160
5- 10	437
10- 15	608
15- 20	692
20- 25	717
25- 30	693
30- 35	624
35- 40	545
40- 45	468
45- 50	398
50- 55	338
55- 60	281
60- 65	224
65- 70	172
70- 75	129
75- 80	95
80- 85	68
85- 90	45
90- 95	26
95-100	11
100-105	2
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	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	596
0- 20	1896
0- 30	3306
0- 40	4474
0- 50	5341
0- 60	5960
0- 70	6355
0- 80	6580
0- 90	6692
0-100	6729
0-110	6731
0-120	6731
0-130	6732
0-140	6733
0-150	6734
0-160	6735
0-170	6735
0-180	6736

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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	101	101	101	99
1	111	107	103	100	108	105	102	99	100	98	95	96	94	92	93	91	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	84	81	85	82	80	78
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	66	61	82	72	66	60	70	64	60	69	63	59	67	62	58	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	56	51	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

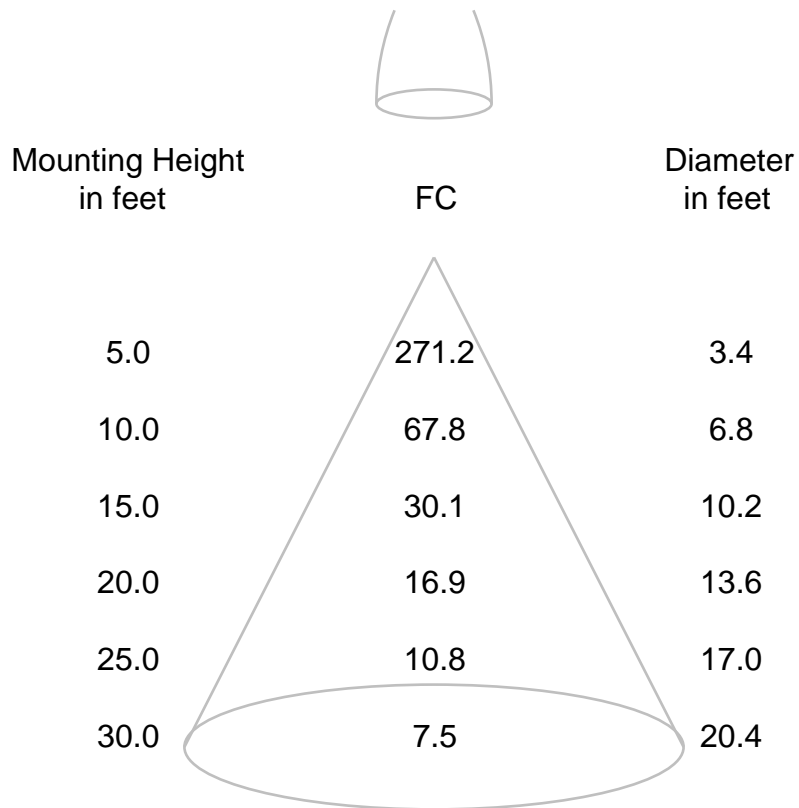
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.