

REPORT NUMBER: SCALED FROM RAB00907

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA80NW/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.

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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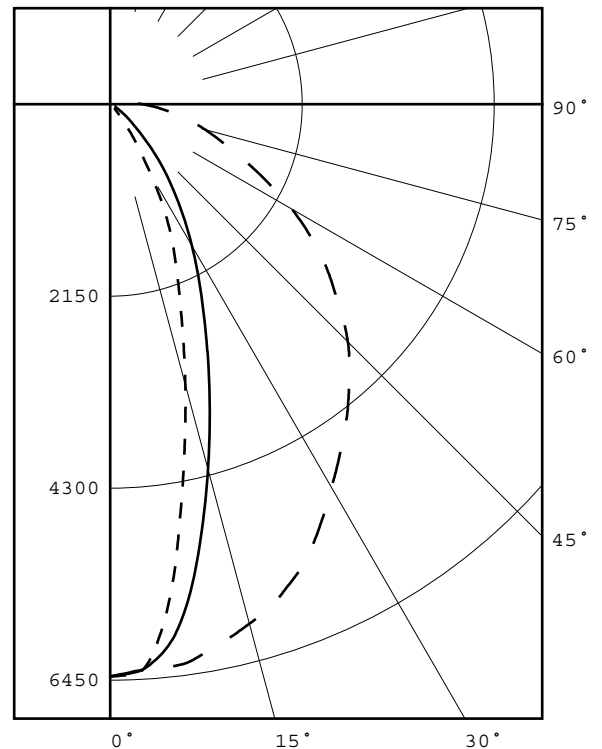
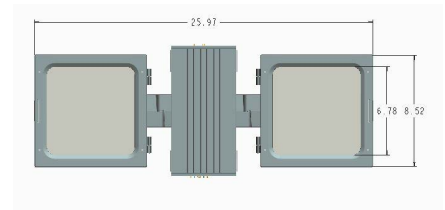
DATE SAMPLE TESTED: 05/22/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	6408	6408	6408	6408	6408
5	6053	6088	6217	6277	6338
15	3252	3467	4234	5496	6023
25	1604	1794	2441	4015	5404
35	434	617	1319	2681	4550
45	78	132	537	1710	3764
55	40	52	166	1031	2841
65	24	30	54	531	1839
75	12	16	26	223	1100
85	3	7	15	100	569
90	0	4	10	62	362
95	0	2	5	32	194
105	0	2	0	0	7
115	0	1	0	0	0
125	0	2	0	0	0
135	0	2	1	0	0
145	0	2	2	1	0
155	1	3	2	0	0
165	2	4	3	0	0
175	4	6	4	1	0
180	3	3	3	3	3

FLUX

566
1244
1346
1121
838
604
388
220
113
39
3
0
0
1
1
1
1
0



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3156	48.7
0- 40	4277	65.9
0- 60	5719	88.2
0- 90	6440	99.3
90-120	42	0.7
90-130	43	0.7
90-150	44	0.7
90-180	46	0.7
0-180	6486	100.0

TOTAL INPUT WATTS = 81.4

EFFICACY = 79.7 lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 0.5 1.2

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 =81.4 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%) : 30.4 X 102.0 DEGREES
FIELD ANGLE (10%): 64.9 X 167.0 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	6408	6408	6408	6408	6408
5.0	6053	6088	6217	6277	6338
10.0	4570	4795	5389	6010	6228
15.0	3252	3467	4234	5496	6023
20.0	2269	2476	3235	4780	5766
25.0	1604	1794	2441	4015	5404
30.0	917	1171	1834	3291	4959
35.0	434	617	1319	2681	4550
40.0	173	299	899	2162	4160
45.0	78	132	537	1710	3764
50.0	54	72	303	1332	3288
55.0	40	52	166	1031	2841
60.0	31	39	90	764	2351
65.0	24	30	54	531	1839
70.0	18	23	37	342	1416
75.0	12	16	26	223	1100
80.0	7	11	20	151	816
85.0	3	7	15	100	569
90.0	0	4	10	62	362
95.0	0	2	5	32	194
100.0	0	1	1	9	68
105.0	0	2	0	0	7
110.0	0	1	0	0	0
115.0	0	1	0	0	0
120.0	0	2	0	0	0
125.0	0	2	0	0	0
130.0	0	2	1	0	0
135.0	0	2	1	0	0
140.0	0	2	2	1	1
145.0	0	2	2	1	0
150.0	1	3	2	1	0
155.0	1	3	2	0	0
160.0	2	4	3	0	0
165.0	2	4	3	0	0
170.0	3	5	3	0	0
175.0	4	6	4	1	0
180.0	3	3	3	3	3

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ZONAL LUMEN SUMMARY

0- 5	151.
5- 10	415.
10- 15	581.
15- 20	663.
20- 25	685.
25- 30	662.
30- 35	598.
35- 40	523.
40- 45	452.
45- 50	386.
50- 55	329.
55- 60	275.
60- 65	220.
65- 70	168.
70- 75	126.
75- 80	94.
80- 85	68.
85- 90	45.
90- 95	27.
95-100	12.
100-105	3.
105-110	0.
110-115	0.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
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	151
5- 10	415
10- 15	581
15- 20	663
20- 25	685
25- 30	662
30- 35	598
35- 40	523
40- 45	452
45- 50	386
50- 55	329
55- 60	275
60- 65	220
65- 70	168
70- 75	126
75- 80	94
80- 85	68
85- 90	45
90- 95	27
95-100	12
100-105	3
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
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	566
0- 20	1810
0- 30	3156
0- 40	4277
0- 50	5115
0- 60	5719
0- 70	6107
0- 80	6327
0- 90	6440
0-100	6479
0-110	6482
0-120	6483
0-130	6483
0-140	6484
0-150	6484
0-160	6485
0-170	6486
0-180	6486

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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	101	99	100	98	95	96	94	92	93	91	89	87
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	90	80	73	67	87	78	72	67	76	70	66	74	69	65	72	67	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	79	68	60	55	77	67	60	55	65	59	54	63	58	54	62	57	53	51
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	39	38

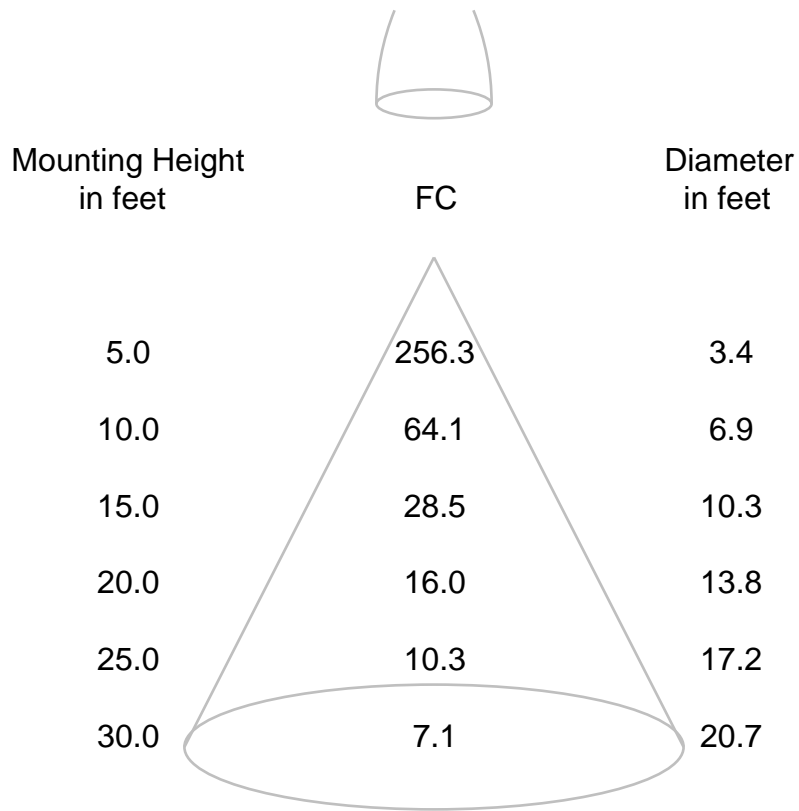
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.