

REPORT NUMBER: SCALED FROM RAB00907

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA80NW/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)

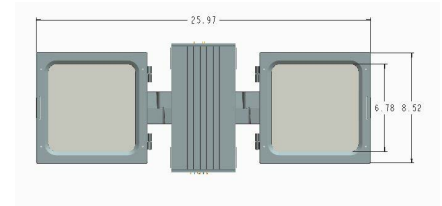
PAGE: 1 OF 8
DATE SAMPLE TESTED: 05/22/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	6330	6330	6330	6330	6330
5	5979	6014	6141	6201	6261
15	3212	3425	4182	5430	5949
25	1585	1772	2411	3966	5338
35	429	610	1303	2648	4495
45	77	131	531	1689	3718
55	40	51	164	1019	2806
65	24	30	53	525	1816
75	12	16	26	221	1087
85	3	7	15	99	562
90	0	4	10	61	357
95	0	2	5	32	192
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

559
1229
1330
1108
828
597
383
218
111
38
3
0
0
1
1
1
1
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3118	48.7
0- 40	4225	65.9
0- 60	5650	88.2
0- 90	6362	99.3
90-120	42	0.7
90-130	42	0.7
90-150	44	0.7
90-180	45	0.7
0-180	6407	100.0

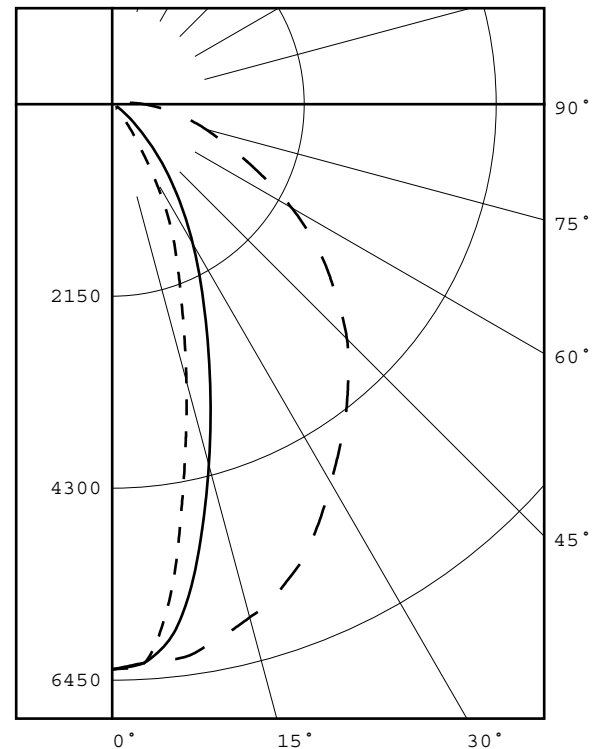
TOTAL INPUT WATTS = 78.4

EFFICACY = 81.7 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

REPORT NUMBER: SCALED FROM RAB00907
ISSUE DATE: 01/05/16
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PAGE: 2 OF 8
DATE SAMPLE TESTED: 05/22/15

ADDITIONAL INFORMATION

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
TOTAL INPUT WATTS =78.4 AT 480.0 VAC.
LED DRIVER: RD-S075-A1400/480
TEST PROCEDURE: IESNA LM-79-08
ACCREDITED LABORATORY CODE 201058-0

REPORT NUMBER: SCALED FROM RAB00907
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PAGE: 3 OF 8
DATE SAMPLE TESTED: 05/22/15

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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 ISSUE DATE: 01/05/16
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PAGE: 4 OF 8
 DATE SAMPLE TESTED: 05/22/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	6330	6330	6330	6330	6330
5.0	5979	6014	6141	6201	6261
10.0	4514	4737	5324	5937	6152
15.0	3212	3425	4182	5430	5949
20.0	2241	2446	3195	4722	5696
25.0	1585	1772	2411	3966	5338
30.0	906	1157	1811	3251	4899
35.0	429	610	1303	2648	4495
40.0	171	295	888	2136	4109
45.0	77	131	531	1689	3718
50.0	53	71	299	1316	3248
55.0	40	51	164	1019	2806
60.0	31	39	89	754	2322
65.0	24	30	53	525	1816
70.0	18	23	37	338	1399
75.0	12	16	26	221	1087
80.0	7	11	20	149	806
85.0	3	7	15	99	562
90.0	0	4	10	61	357
95.0	0	2	5	32	192
100.0	0	1	1	9	67
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

REPORT NUMBER: SCALED FROM RAB00907
ISSUE DATE: 01/05/16
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PAGE: 5 OF 8
DATE SAMPLE TESTED: 05/22/15

ZONAL LUMEN SUMMARY

0- 5	149.
5- 10	410.
10- 15	574.
15- 20	655.
20- 25	676.
25- 30	654.
30- 35	591.
35- 40	517.
40- 45	447.
45- 50	381.
50- 55	325.
55- 60	272.
60- 65	217.
65- 70	166.
70- 75	124.
75- 80	93.
80- 85	67.
85- 90	45.
90- 95	26.
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.

REPORT NUMBER: SCALED FROM RAB00907
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PAGE: 6 OF 8
 DATE SAMPLE TESTED: 05/22/15

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	149
5- 10	410
10- 15	574
15- 20	655
20- 25	676
25- 30	654
30- 35	591
35- 40	517
40- 45	447
45- 50	381
50- 55	325
55- 60	272
60- 65	217
65- 70	166
70- 75	124
75- 80	93
80- 85	67
85- 90	45
90- 95	26
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	559
0- 20	1788
0- 30	3118
0- 40	4225
0- 50	5053
0- 60	5650
0- 70	6033
0- 80	6250
0- 90	6362
0-100	6400
0-110	6403
0-120	6404
0-130	6404
0-140	6405
0-150	6406
0-160	6406
0-170	6407
0-180	6407

REPORT NUMBER: SCALED FROM RAB00907
ISSUE DATE: 01/05/16

PAGE: 7 OF 8
DATE SAMPLE TESTED: 05/22/15

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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

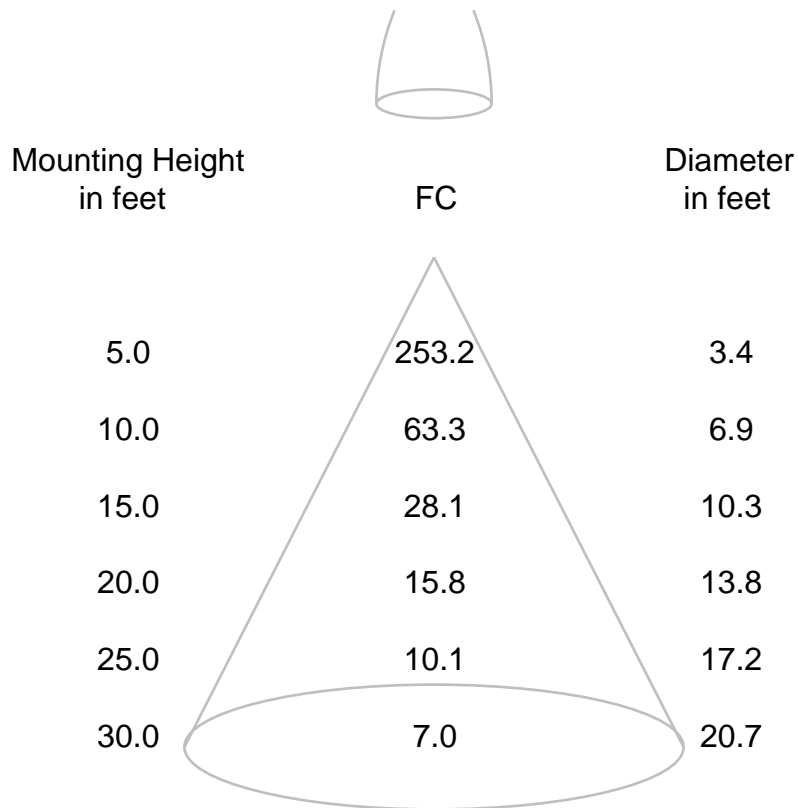
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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PAGE: 8 OF 8
DATE SAMPLE TESTED: 05/22/15

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.