

REPORT NUMBER: SCALED FROM RAB00901

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA160NW/D10

LUMINAIRE: ONE LUMINAIRE CONSISTING OF TWO PAIRS OF HEADS. EACH PAIR MOUNTED IN OPPOSING DIRECTIONS, 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.

(SEE PAGE 2 FOR MORE INFORMATION)

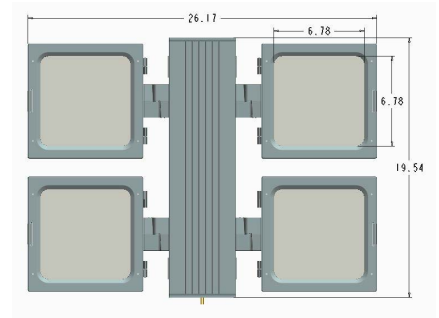
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DATE SAMPLE TESTED: 05/26/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	13606	13606	13606	13606	13606	
5	12773	12897	13118	13371	13494	1193
15	6581	7039	8604	11624	13039	2595
25	3323	3706	5047	8388	11907	2832
35	844	1192	2634	5408	9885	2309
45	241	355	975	3370	7798	1701
55	118	152	366	1924	5696	1201
65	82	98	176	860	3572	741
75	48	60	92	323	1786	377
85	12	22	50	142	642	153
90	0	11	34	91	304	
95	0	3	14	52	120	38
105	0	2	0	0	0	1
115	0	2	0	0	0	0
125	0	2	0	0	0	0
135	0	3	1	0	0	1
145	1	4	4	1	0	1
155	3	6	4	0	0	1
165	5	8	4	0	0	1
175	6	9	5	0	0	0
180	4	4	4	4	4	

FLUX



ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	6620	50.4
0- 40	8929	67.9
0- 60	11830	90.0
0- 90	13101	99.7
90-120	40	0.3
90-130	40	0.3
90-150	43	0.3
90-180	45	0.3
0-180	13147	100.0

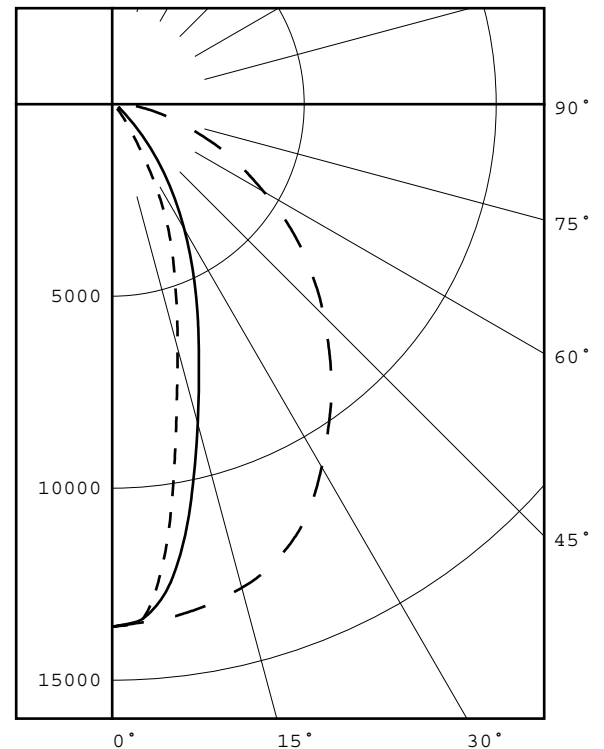
TOTAL INPUT WATTS = 158.3

EFFICACY = 83.1 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

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

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS =158.3 AT 120.0 VAC.

LED DRIVER: RD-144-Q0700-C

TEST PROCEDURE: IESNA LM-79-08

ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 29.1 X 99.4 DEGREES
FIELD ANGLE (10%): 64.0 X 156.5 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	13606	13606	13606	13606	13606
5.0	12773	12897	13118	13371	13494
10.0	9382	9888	11188	12737	13314
15.0	6581	7039	8604	11624	13039
20.0	4746	5161	6586	10083	12601
25.0	3323	3706	5047	8388	11907
30.0	1842	2346	3762	6785	10911
35.0	844	1192	2634	5408	9885
40.0	433	619	1690	4303	8849
45.0	241	355	975	3370	7798
50.0	156	216	568	2595	6737
55.0	118	152	366	1924	5696
60.0	98	119	247	1351	4567
65.0	82	98	176	860	3572
70.0	65	80	132	523	2612
75.0	48	60	92	323	1786
80.0	29	39	64	212	1148
85.0	12	22	50	142	642
90.0	0	11	34	91	304
95.0	0	3	14	52	120
100.0	0	2	0	9	29
105.0	0	2	0	0	0
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	0	0	0
130.0	0	2	0	0	0
135.0	0	3	1	0	0
140.0	0	3	3	1	0
145.0	1	4	4	1	0
150.0	2	5	4	1	0
155.0	3	6	4	0	0
160.0	4	7	4	0	0
165.0	5	8	4	0	0
170.0	5	8	4	0	0
175.0	6	9	5	0	0
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

0- 5	320.
5- 10	873.
10- 15	1210.
15- 20	1385.
20- 25	1444.
25- 30	1389.
30- 35	1238.
35- 40	1071.
40- 45	920.
45- 50	781.
50- 55	659.
55- 60	541.
60- 65	424.
65- 70	317.
70- 75	224.
75- 80	152.
80- 85	97.
85- 90	56.
90- 95	28.
95-100	10.
100-105	1.
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	1.
160-165	1.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	320
5- 10	873
10- 15	1210
15- 20	1385
20- 25	1444
25- 30	1389
30- 35	1238
35- 40	1071
40- 45	920
45- 50	781
50- 55	659
55- 60	541
60- 65	424
65- 70	317
70- 75	224
75- 80	152
80- 85	97
85- 90	56
90- 95	28
95-100	10
100-105	1
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	1
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	1193
0- 20	3788
0- 30	6620
0- 40	8929
0- 50	10630
0- 60	11830
0- 70	12572
0- 80	12948
0- 90	13101
0-100	13139
0-110	13141
0-120	13141
0-130	13142
0-140	13143
0-150	13144
0-160	13145
0-170	13146
0-180	13147

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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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	64	57	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

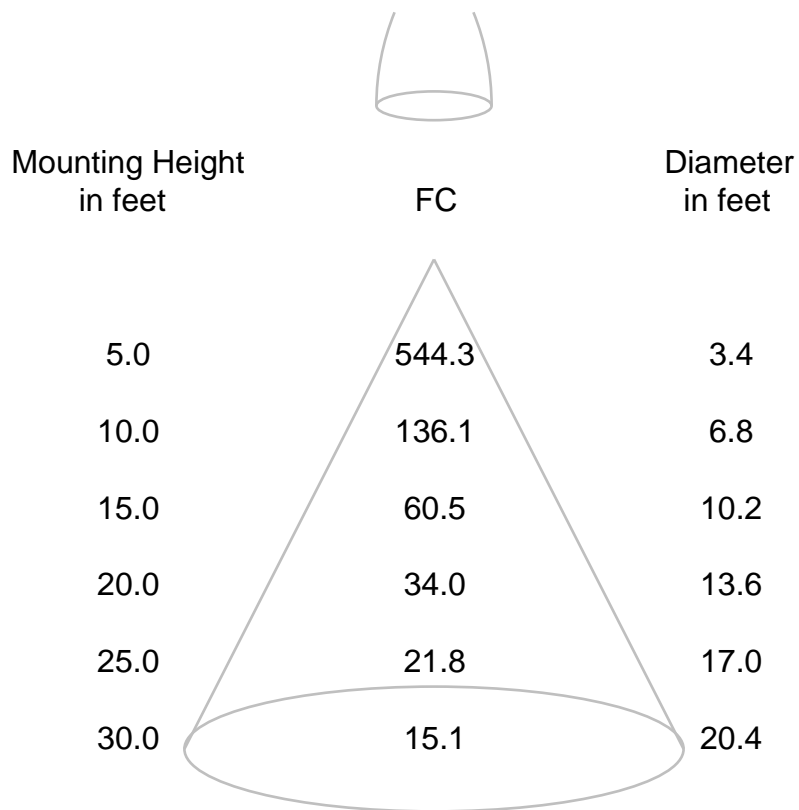
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.