

REPORT NUMBER: SCALED FROM RAB00899

ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA160W/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)

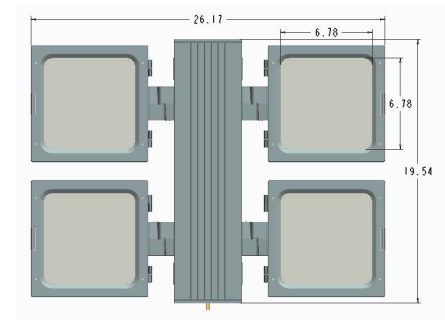
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	13576	13576	13576	13576	13576	
5	12811	12905	13104	13314	13413	1202
15	6892	7490	9117	11748	12838	2665
25	3368	3752	5197	8741	11611	2892
35	1027	1443	2790	5841	9737	2433
45	209	349	1205	3646	7915	1805
55	101	127	406	2181	5911	1282
65	61	76	138	1115	3693	804
75	31	40	65	464	2095	440
85	6	14	34	204	1030	214
90	0	7	20	122	612	
95	0	3	7	57	291	62
105	0	2	0	0	0	2
115	0	2	0	0	0	0
125	0	2	0	0	0	1
135	0	3	1	0	0	1
145	1	4	3	1	0	1
155	2	6	4	0	0	1
165	5	7	4	0	0	1
175	6	9	5	0	0	0
180	5	5	5	5	5	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	6759	49.0
0- 40	9191	66.6
0- 60	12278	88.9
0- 90	13736	99.5
90-120	65	0.5
90-130	65	0.5
90-150	67	0.5
90-180	70	0.5
0-180	13806	100.0

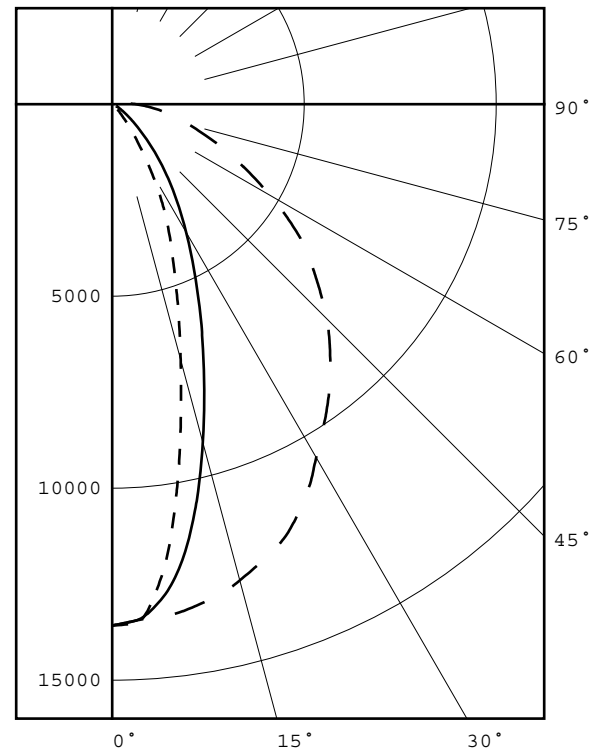
TOTAL INPUT WATTS = 155.7

EFFICACY = 88.7 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

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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 =155.7 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%) : 30.5 X 101.1 DEGREES
FIELD ANGLE (10%): 66.3 X 163.4 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	13576	13576	13576	13576	13576
5.0	12811	12905	13104	13314	13413
10.0	9871	10412	11494	12739	13216
15.0	6892	7490	9117	11748	12838
20.0	4781	5256	6932	10334	12345
25.0	3368	3752	5197	8741	11611
30.0	2061	2539	3857	7203	10625
35.0	1027	1443	2790	5841	9737
40.0	458	736	1921	4663	8836
45.0	209	349	1205	3646	7915
50.0	135	182	707	2831	6894
55.0	101	127	406	2181	5911
60.0	79	97	229	1620	4743
65.0	61	76	138	1115	3693
70.0	46	57	92	719	2813
75.0	31	40	65	464	2095
80.0	18	25	47	315	1539
85.0	6	14	34	204	1030
90.0	0	7	20	122	612
95.0	0	3	7	57	291
100.0	0	2	0	9	64
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	3	1	0	0
135.0	0	3	1	0	0
140.0	0	4	3	1	0
145.0	1	4	3	1	0
150.0	1	5	4	0	0
155.0	2	6	4	0	0
160.0	3	7	4	0	0
165.0	5	7	4	0	0
170.0	6	8	5	0	0
175.0	6	9	5	0	0
180.0	5	5	5	5	5

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ZONAL LUMEN SUMMARY

0- 5	319.
5- 10	882.
10- 15	1246.
15- 20	1420.
20- 25	1468.
25- 30	1423.
30- 35	1295.
35- 40	1137.
40- 45	977.
45- 50	828.
50- 55	701.
55- 60	580.
60- 65	457.
65- 70	346.
70- 75	254.
75- 80	186.
80- 85	131.
85- 90	83.
90- 95	45.
95-100	17.
100-105	2.
105-110	0.
110-115	0.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	1.
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	319
5- 10	882
10- 15	1246
15- 20	1420
20- 25	1468
25- 30	1423
30- 35	1295
35- 40	1137
40- 45	977
45- 50	828
50- 55	701
55- 60	580
60- 65	457
65- 70	346
70- 75	254
75- 80	186
80- 85	131
85- 90	83
90- 95	45
95-100	17
100-105	2
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	1
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	1202
0- 20	3867
0- 30	6759
0- 40	9191
0- 50	10996
0- 60	12278
0- 70	13082
0- 80	13522
0- 90	13736
0-100	13798
0-110	13800
0-120	13800
0-130	13801
0-140	13802
0-150	13803
0-160	13804
0-170	13805
0-180	13806

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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	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	74	66	61	82	73	66	60	70	64	60	69	63	59	67	62	59	57
6	79	68	61	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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

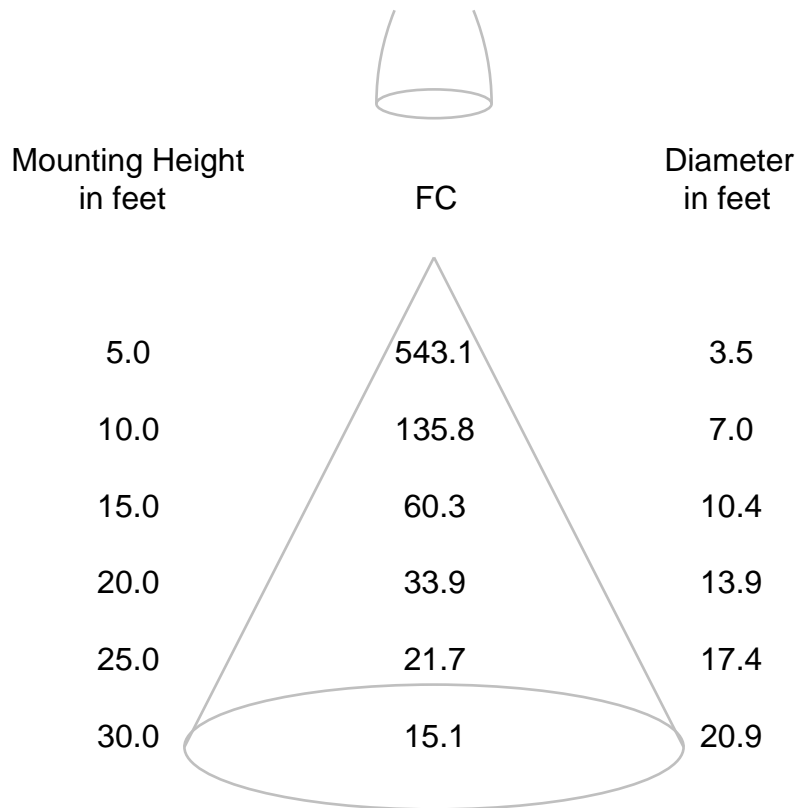
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.