

REPORT NUMBER: SCALED FROM RAB00738

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ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCOR160NW/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.

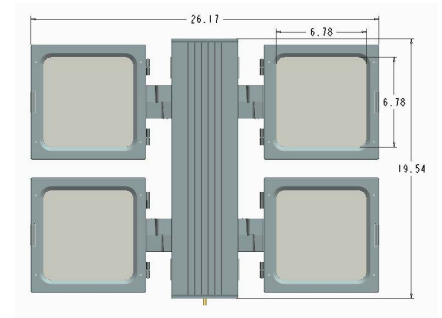
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	5502	5502	5502	5502	5502
5	5514	5506	5466	5450	5461
15	5292	5264	5184	5164	5147
25	4947	4848	4743	4776	4829
35	4414	4285	4228	4387	4490
45	3563	3478	3486	3600	3615
55	2315	2422	2685	2428	2279
65	1146	1238	1437	1173	1018
75	437	477	533	424	372
85	76	84	97	71	60
90	7	5	6	5	4
95	0	0	0	0	0
105	1	1	1	1	1
115	1	1	1	1	1
125	1	1	1	1	1
135	2	2	2	2	2
145	2	2	2	2	2
155	3	2	2	3	3
165	3	3	3	3	3
175	3	3	3	3	3
180	3	3	3	3	3

FLUX

519
1470
2223
2705
2725
2186
1242
503
103
1
1
1
1
1
1
1
1
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	4212	30.8
0- 40	6917	50.5
0- 60	11828	86.4
0- 90	13676	99.9
90-120	3	0.0
90-130	4	0.0
90-150	6	0.0
90-180	9	0.1
0-180	13684	100.0

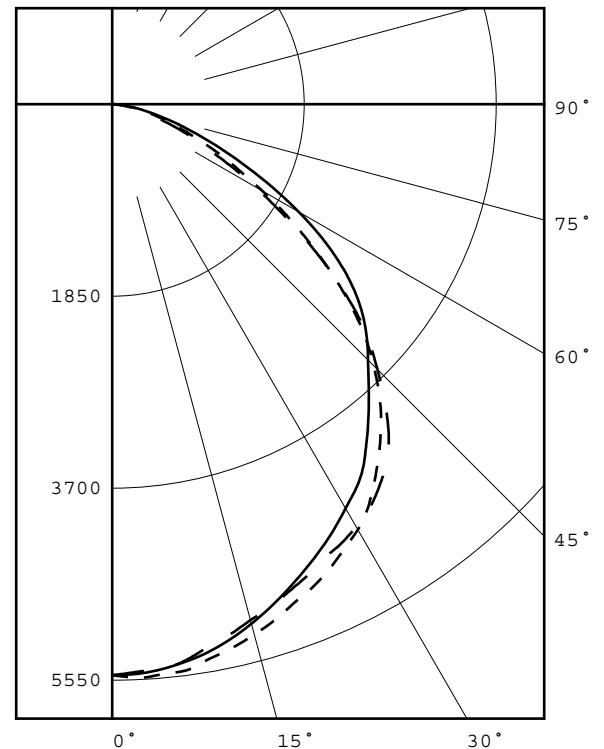
TOTAL INPUT WATTS = 158.3

EFFICACY = 86.4 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.3 1.3



LEGEND:

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

Checked

X.CAO

Approved

D.WANG-MUNSON

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ADDITIONAL INFORMATION

LAMP: SIXTY-FOUR WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 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%) : 103.4 X 103.5 DEGREES
FIELD ANGLE (10%) : 145.5 X 143.0 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	5502	5502	5502	5502	5502
5.0	5514	5506	5466	5450	5461
10.0	5424	5421	5359	5318	5310
15.0	5292	5264	5184	5164	5147
20.0	5117	5057	4970	4982	4993
25.0	4947	4848	4743	4776	4829
30.0	4735	4610	4497	4598	4702
35.0	4414	4285	4228	4387	4490
40.0	4029	3894	3846	4041	4144
45.0	3563	3478	3486	3600	3615
50.0	2989	2995	3150	3078	3024
55.0	2315	2422	2685	2428	2279
60.0	1670	1800	2077	1754	1587
65.0	1146	1238	1437	1173	1018
70.0	724	796	917	721	648
75.0	437	477	533	424	372
80.0	229	249	262	217	185
85.0	76	84	97	71	60
90.0	7	5	6	5	4
95.0	0	0	0	0	0
100.0	0	1	1	1	0
105.0	1	1	1	1	1
110.0	1	1	1	1	1
115.0	1	1	1	1	1
120.0	1	1	1	1	1
125.0	1	1	1	1	1
130.0	1	1	1	1	1
135.0	2	2	2	2	2
140.0	2	2	2	2	2
145.0	2	2	2	2	2
150.0	2	2	2	3	3
155.0	3	2	2	3	3
160.0	3	3	3	3	3
165.0	3	3	3	3	3
170.0	3	3	2	3	3
175.0	3	3	3	3	3
180.0	3	3	3	3	3

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ZONAL LUMEN SUMMARY

0- 5	131.
5- 10	388.
10- 15	627.
15- 20	842.
20- 25	1031.
25- 30	1192.
30- 35	1319.
35- 40	1386.
40- 45	1390.
45- 50	1335.
50- 55	1200.
55- 60	986.
60- 65	737.
65- 70	505.
70- 75	320.
75- 80	183.
80- 85	83.
85- 90	20.
90- 95	1.
95-100	0.
100-105	0.
105-110	1.
110-115	1.
115-120	0.
120-125	0.
125-130	0.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	131
5- 10	388
10- 15	627
15- 20	842
20- 25	1031
25- 30	1192
30- 35	1319
35- 40	1386
40- 45	1390
45- 50	1335
50- 55	1200
55- 60	986
60- 65	737
65- 70	505
70- 75	320
75- 80	183
80- 85	83
85- 90	20
90- 95	1
95-100	0
100-105	0
105-110	1
110-115	1
115-120	0
120-125	0
125-130	0
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	519
0- 20	1989
0- 30	4212
0- 40	6917
0- 50	9642
0- 60	11828
0- 70	13070
0- 80	13572
0- 90	13676
0-100	13677
0-110	13677
0-120	13678
0-130	13679
0-140	13681
0-150	13682
0-160	13683
0-170	13684
0-180	13684

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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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

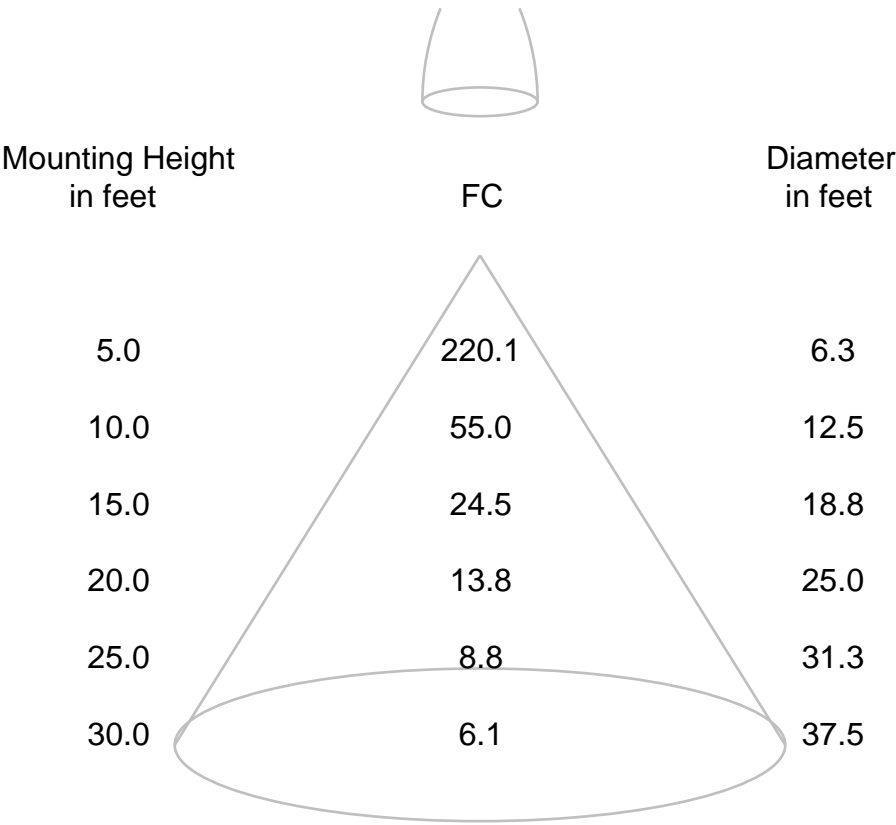
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE
BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES
ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.