

REPORT NUMBER: SCALED FROM RAB00731

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ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCORA230YW/D10

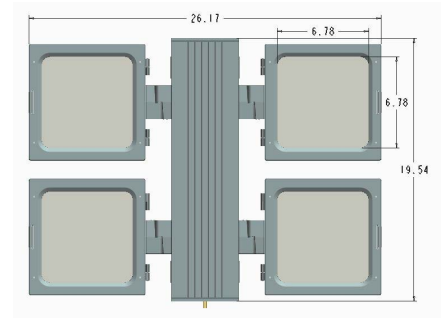
LUMINAIRE: ONE LUMINAIRE CONSISTING OF TWO PAIRS OF HEADS. EACH PAIR MOUNTED IN OPPOSING DIRECTIONS, EACH LIGHT HEAD CONSISTING OF: CAST FINNED METAL HOUSING, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, ONE CIRCUIT BOARD WITH 24 LEDS, CLEAR FLAT PRISMATIC GLASS LENS.

\*(SEE PAGE 2 FOR MORE INFORMATION)\*

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	16706	16706	16706	16706	16706	
5	15736	15874	16143	16406	16481	1474
15	8777	9288	11183	14212	15711	3276
25	4529	5008	6662	10399	13922	3590
35	1142	1702	3659	7056	11865	2982
45	165	290	1429	4525	9657	2174
55	91	111	390	2656	6782	1487
65	57	70	120	1279	4247	909
75	29	37	60	498	2515	504
85	6	13	31	213	1256	247
90	1	7	19	125	756	
95	0	3	7	56	368	72
105	0	2	0	0	0	3
115	0	2	0	0	0	0
125	0	3	0	0	0	1
135	0	3	2	0	0	1
145	2	6	4	1	0	2
155	4	8	6	1	0	2
165	8	12	8	1	0	2
175	11	14	10	2	0	1
180	8	8	8	8	8	

### FLUX



ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	8340	49.9
0- 40	11322	67.7
0- 60	14983	89.6
0- 90	16643	99.5
90-120	76	0.5
90-130	76	0.5
90-150	79	0.5
90-180	84	0.5
0-180	16727	100.0

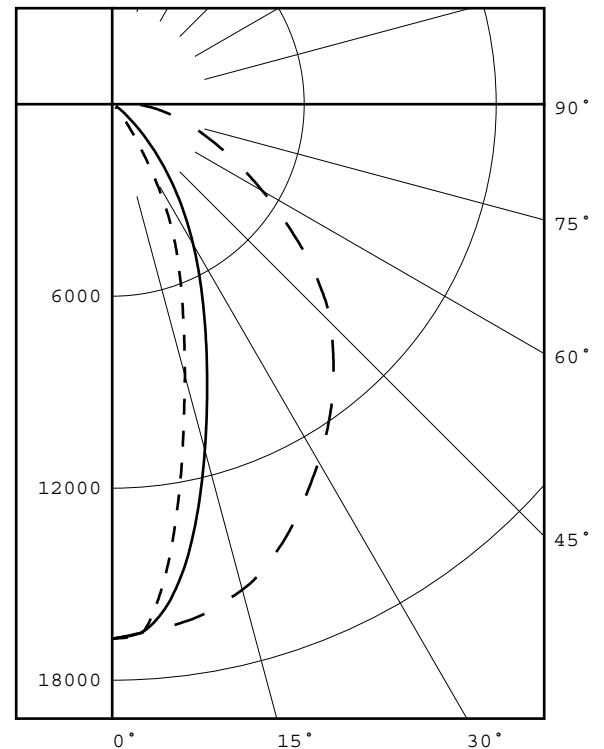
TOTAL INPUT WATTS = 243.6

EFFICACY = 68.7 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: NINTY-SIX 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 =243.6 AT 120.0 VAC.  
LED DRIVER: RD-144-Q0700-C + 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%) : 31.6 X 99.5 DEGREES  
FIELD ANGLE (10%): 65.7 X 163.1 DEGREES

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### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	16706	16706	16706	16706	16706
5.0	15736	15874	16143	16406	16481
10.0	12156	12620	14055	15588	16205
15.0	8777	9288	11183	14212	15711
20.0	6365	6831	8655	12390	14928
25.0	4529	5008	6662	10399	13922
30.0	2604	3284	5070	8606	12895
35.0	1142	1702	3659	7056	11865
40.0	415	749	2452	5719	10757
45.0	165	290	1429	4525	9657
50.0	115	151	751	3510	8285
55.0	91	111	390	2656	6782
60.0	73	88	198	1911	5431
65.0	57	70	120	1279	4247
70.0	43	53	85	798	3290
75.0	29	37	60	498	2515
80.0	16	24	43	331	1862
85.0	6	13	31	213	1256
90.0	1	7	19	125	756
95.0	0	3	7	56	368
100.0	0	2	0	8	89
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	3	0	0	0
130.0	0	3	1	0	0
135.0	0	3	2	0	0
140.0	1	4	3	1	0
145.0	2	6	4	1	0
150.0	3	7	5	1	0
155.0	4	8	6	1	0
160.0	7	10	7	1	0
165.0	8	12	8	1	0
170.0	10	13	9	2	0
175.0	11	14	10	2	0
180.0	8	8	8	8	8

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## ZONAL LUMEN SUMMARY

0- 5	393.
5- 10	1080.
10- 15	1525.
15- 20	1752.
20- 25	1823.
25- 30	1767.
30- 35	1596.
35- 40	1386.
40- 45	1180.
45- 50	994.
50- 55	823.
55- 60	665.
60- 65	518.
65- 70	392.
70- 75	290.
75- 80	214.
80- 85	150.
85- 90	96.
90- 95	53.
95-100	20.
100-105	3.
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	1.
170-175	1.
175-180	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	393
5- 10	1080
10- 15	1525
15- 20	1752
20- 25	1823
25- 30	1767
30- 35	1596
35- 40	1386
40- 45	1180
45- 50	994
50- 55	823
55- 60	665
60- 65	518
65- 70	392
70- 75	290
75- 80	214
80- 85	150
85- 90	96
90- 95	53
95-100	20
100-105	3
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	1
170-175	1
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	1474
0- 20	4750
0- 30	8340
0- 40	11322
0- 50	13496
0- 60	14983
0- 70	15893
0- 80	16397
0- 90	16643
0-100	16716
0-110	16719
0-120	16719
0-130	16720
0-140	16721
0-150	16723
0-160	16725
0-170	16726
0-180	16727

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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	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	97	92	87	101	95	90	86	92	88	84	88	85	82	85	83	80	78
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	68	65	63
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	52
7	75	64	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

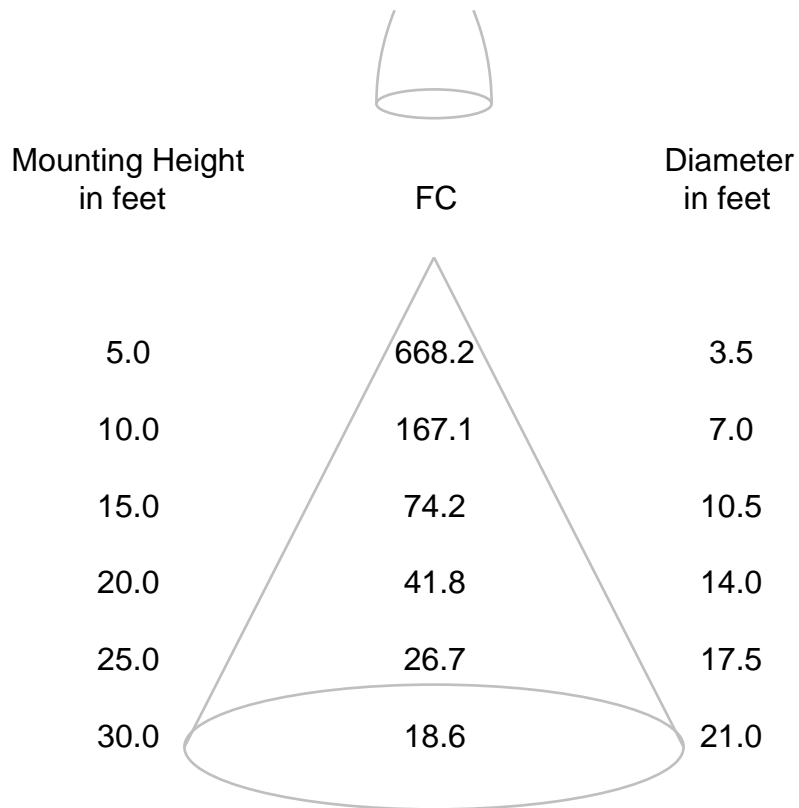
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.