

REPORT NUMBER: SCALED FROM RAB00746

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ISSUE DATE: 01/05/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FALCOR80W/D10

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.

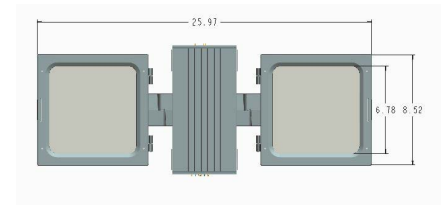
LAMP: THIRTY-TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	2712	2712	2712	2712	2712	
5	2734	2737	2724	2707	2717	258
15	2602	2597	2590	2580	2587	731
25	2466	2420	2379	2412	2467	1117
35	2331	2251	2148	2176	2242	1380
45	1921	1881	1806	1799	1829	1414
55	1215	1285	1400	1262	1216	1148
65	550	623	761	652	597	658
75	195	225	283	258	231	268
85	30	37	48	45	38	54
90	2	2	2	3	2	
95	0	0	1	1	1	1
105	0	0	1	1	1	1
115	1	1	1	1	1	1
125	1	1	1	1	1	1
135	1	1	1	1	1	1
145	2	2	2	2	2	1
155	2	2	2	2	2	1
165	2	2	2	2	2	1
175	2	2	2	2	2	0
180	2	2	2	2	2	

FLUX



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2106	29.9
0- 40	3486	49.6
0- 60	6048	86.0
0- 90	7028	99.9
90-120	3	0.0
90-130	4	0.1
90-150	6	0.1
90-180	7	0.1
0-180	7035	100.0

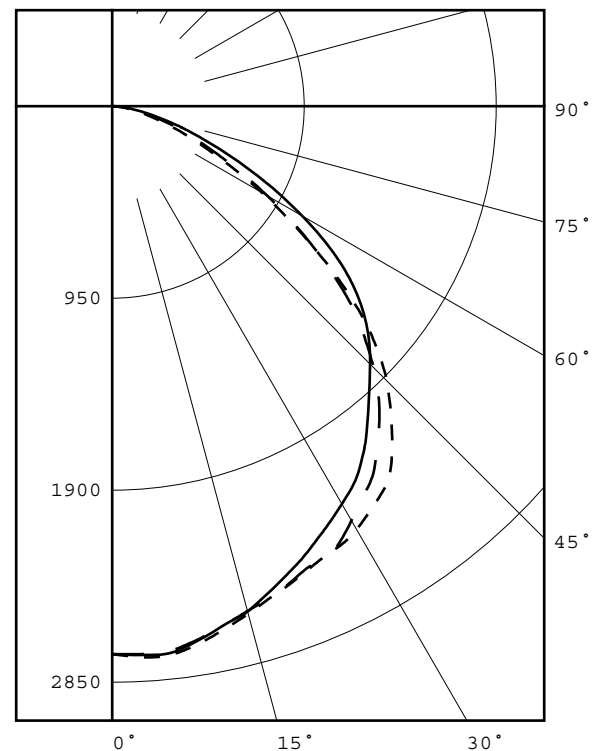
TOTAL INPUT WATTS = 80.3

EFFICACY = 87.6 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

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
TOTAL INPUT WATTS =80.3 AT 120.0 VAC.
LED DRIVER: 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%) : 106.2 X 105.6 DEGREES
FIELD ANGLE (10%) : 144.3 X 147.3 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	2712	2712	2712	2712	2712
5.0	2734	2737	2724	2707	2717
10.0	2682	2679	2664	2651	2660
15.0	2602	2597	2590	2580	2587
20.0	2528	2503	2484	2499	2524
25.0	2466	2420	2379	2412	2467
30.0	2419	2338	2274	2317	2369
35.0	2331	2251	2148	2176	2242
40.0	2155	2089	1971	1994	2055
45.0	1921	1881	1806	1799	1829
50.0	1612	1620	1633	1555	1556
55.0	1215	1285	1400	1262	1216
60.0	856	930	1086	944	886
65.0	550	623	761	652	597
70.0	345	386	484	428	386
75.0	195	225	283	258	231
80.0	98	114	138	133	119
85.0	30	37	48	45	38
90.0	2	2	2	3	2
95.0	0	0	1	1	1
100.0	0	1	1	1	1
105.0	0	0	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	2
135.0	1	1	1	1	1
140.0	1	2	1	2	2
145.0	2	2	2	2	2
150.0	2	2	2	2	2
155.0	2	2	2	2	2
160.0	2	2	2	2	2
165.0	2	2	2	2	2
170.0	2	2	2	2	2
175.0	2	2	2	2	2
180.0	2	2	2	2	2

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ZONAL LUMEN SUMMARY

0- 5	65.
5- 10	193.
10- 15	312.
15- 20	419.
20- 25	516.
25- 30	601.
30- 35	670.
35- 40	710.
40- 45	719.
45- 50	695.
50- 55	629.
55- 60	519.
60- 65	390.
65- 70	268.
70- 75	171.
75- 80	97.
80- 85	44.
85- 90	10.
90- 95	1.
95-100	0.
100-105	0.
105-110	0.
110-115	1.
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	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	65
5- 10	193
10- 15	312
15- 20	419
20- 25	516
25- 30	601
30- 35	670
35- 40	710
40- 45	719
45- 50	695
50- 55	629
55- 60	519
60- 65	390
65- 70	268
70- 75	171
75- 80	97
80- 85	44
85- 90	10
90- 95	1
95-100	0
100-105	0
105-110	0
110-115	1
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	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	258
0- 20	989
0- 30	2106
0- 40	3486
0- 50	4900
0- 60	6048
0- 70	6706
0- 80	6974
0- 90	7028
0-100	7029
0-110	7030
0-120	7031
0-130	7032
0-140	7033
0-150	7034
0-160	7035
0-170	7035
0-180	7035

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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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	37
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

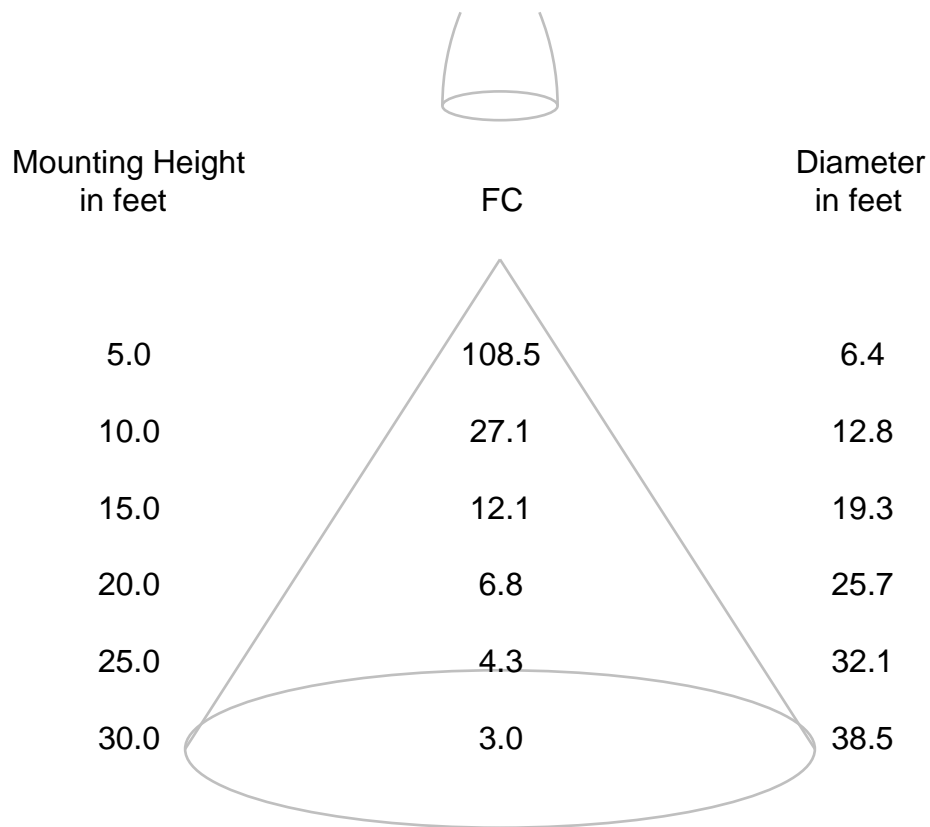
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.