

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70NW/D10

LUMINAIRE: FABRICATED WHITE PLASTIC HOUSING, PERFORATED WHITE METAL HEAT SINK, 4 WHITE CIRCUIT BOARDS EACH WITH 64 LEDS, FROSTED POLYCARBONATE LENS ENCLOSURE.

LAMPS: TWO HUNDRED AND FIFTY SIX WHITE EMITTING DIODES (LEDs), TILTED 15-DEGREE FROM VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 74.2W AT 277.0 VOLTS

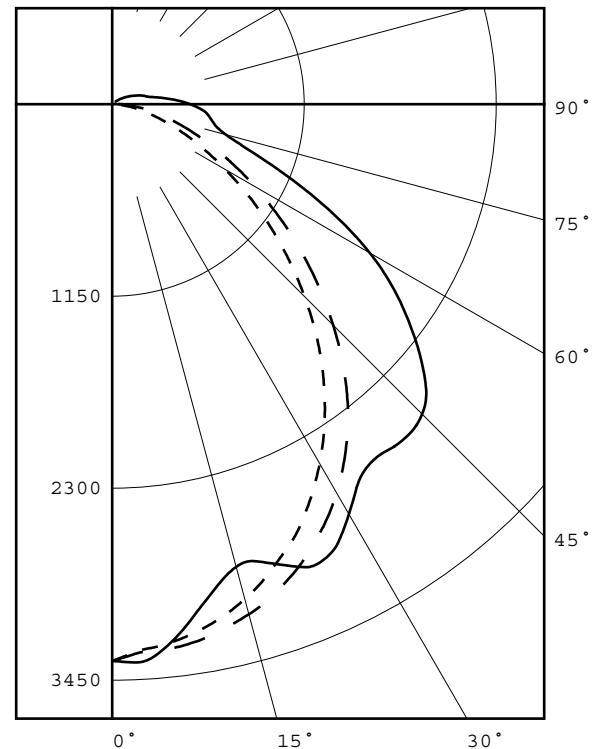
LED DRIVERS: 2 X RD-042-A0700-C

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3336	3336	3336	3336	3336
5	3258	3304	3295	3331	3287
15	3069	2913	2869	2966	3163
25	2721	2727	3007	2797	2883
35	2222	2624	2658	2745	2452
45	1630	2187	2626	2322	1872
55	1044	1936	2128	2116	1264
65	569	1286	1359	1471	745
75	247	657	705	760	369
85	56	375	563	439	127
90	3	300	466	354	48
95	3	233	353	277	33
105	3	106	195	132	23
115	3	41	112	54	14
125	3	12	42	17	9
135	5	8	12	9	6
145	6	6	8	6	6
155	6	5	6	5	6
165	6	5	5	3	6
175	6	5	5	5	6
180	5	5	5	5	5

FLUX



LEGEND:

0-deg: - - - - -
 90-deg: — — — — —
 180-deg: - . - . - .

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2452	24.1
0- 40	4049	39.9
0- 60	7444	73.3
0- 90	9718	95.6
90-120	410	4.0
90-130	428	4.2
90-150	439	4.3
90-180	443	4.4
0-180	10162	100.0

TOTAL INPUT WATTS = 74.2

EFFICACY = 137.0 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.1 1.3 1.2

Checked X.CAO
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

THIS REPORT WAS PRORATED FROM RAB TEST NUMBER 2635 WHICH WAS A 4' (128 LED) LUMINAIRE. THE DATA WAS DOUBLED TO REPRESENT AN 8' LUMINAIRE WITH 256 LEDS AND USING TWO OF THE SAME DRIVERS AS WAS USED FOR THE 4' TEST. ACTUAL PERFORMANCE MAY VARY.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 28.25 FEET

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 92.3 X 122.5 DEGREES
FIELD ANGLE (10%): 147.9 X 191.5 DEGREES

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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 96.060 5.150
HEIGHT OF SIDE : 1.860 1.860

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	7082.	8544.	8135.
55	5549.	7665.	6715.
65	4049.	5676.	5298.
75	2784.	3635.	4167.
85	1648.	3945.	3741.

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ZONAL LUMEN SUMMARY

0- 5	79.
5- 10	231.
10- 15	362.
15- 20	480.
20- 25	598.
25- 30	702.
30- 35	774.
35- 40	824.
40- 45	865.
45- 50	884.
50- 55	859.
55- 60	786.
60- 65	669.
65- 70	524.
70- 75	386.
75- 80	287.
80- 85	227.
85- 90	182.
90- 95	140.
95-100	100.
100-105	68.
105-110	48.
110-115	33.
115-120	21.
120-125	12.
125-130	6.
130-135	4.
135-140	3.
140-145	2.
145-150	2.
150-155	1.
155-160	1.
160-165	1.
165-170	1.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	79
5- 10	231
10- 15	362
15- 20	480
20- 25	598
25- 30	702
30- 35	774
35- 40	824
40- 45	865
45- 50	884
50- 55	859
55- 60	786
60- 65	669
65- 70	524
70- 75	386
75- 80	287
80- 85	227
85- 90	182
90- 95	140
95-100	100
100-105	68
105-110	48
110-115	33
115-120	21
120-125	12
125-130	6
130-135	4
135-140	3
140-145	2
145-150	2
150-155	1
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	310
0- 20	1152
0- 30	2452
0- 40	4049
0- 50	5799
0- 60	7444
0- 70	8636
0- 80	9309
0- 90	9718
0-100	9959
0-110	10075
0-120	10128
0-130	10147
0-140	10153
0-150	10157
0-160	10160
0-170	10161
0-180	10162

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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	90	87	89	86	84	85	83	81	78
2	97	88	81	75	94	86	79	74	82	76	71	78	73	69	74	70	67	65
3	88	77	69	62	85	75	67	61	72	65	60	68	63	58	65	60	56	54
4	81	68	59	52	78	67	58	52	63	56	50	61	54	49	58	53	48	46
5	74	61	52	45	71	59	51	44	57	49	43	54	48	43	52	46	42	39
6	68	55	45	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	34	28	23	22

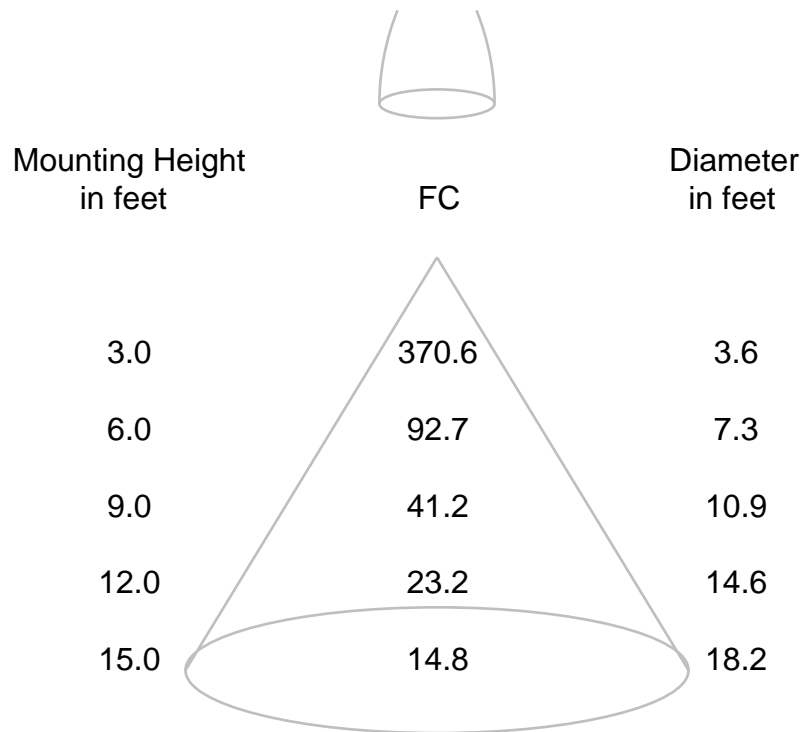
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.