

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-100W/480/D10, SHARK8-100W/347/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 = 99.9 AT 480.0 VOLTS

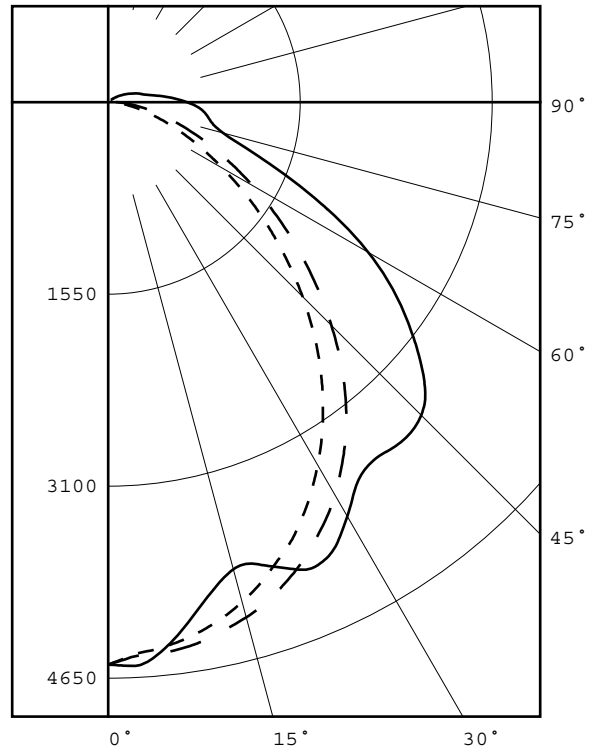
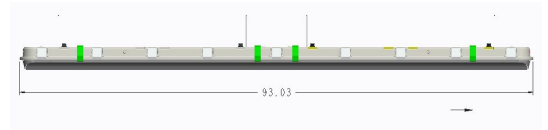
LED DRIVERS: 2 X RD-H0650A1810-480

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

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	4540	4540	4540	4540	4540
5	4435	4497	4484	4534	4474
15	4178	3965	3906	4037	4305
25	3704	3712	4093	3807	3924
35	3024	3572	3617	3737	3337
45	2219	2977	3574	3160	2548
55	1421	2635	2896	2880	1720
65	775	1751	1850	2002	1013
75	336	894	960	1034	503
85	76	511	766	597	173
90	4	408	634	482	66
95	4	317	480	377	45
105	4	144	266	179	31
115	4	56	152	74	19
125	4	16	58	23	12
135	6	10	16	12	8
145	8	8	10	8	8
155	8	6	8	6	8
165	8	6	6	4	8
175	8	6	6	6	8
180	6	6	6	6	6

### FLUX



LEGEND:  
 0-deg: - - - - -  
 90-deg: \_\_\_\_\_  
 180-deg: - - - - -

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3337	24.1
0- 40	5512	39.9
0- 60	10132	73.3
0- 90	13228	95.6
90-120	558	4.0
90-130	583	4.2
90-150	598	4.3
90-180	603	4.4
0-180	13831	100.0

TOTAL INPUT WATTS = 99.9

EFFICACY = 138.4 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	9640.	11630.	11072.
55	7552.	10433.	9140.
65	5511.	7725.	7211.
75	3789.	4948.	5672.
85	2243.	5370.	5091.



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### ZONAL LUMEN SUMMARY

0- 5	108.
5- 10	314.
10- 15	493.
15- 20	653.
20- 25	813.
25- 30	956.
30- 35	1054.
35- 40	1121.
40- 45	1178.
45- 50	1203.
50- 55	1169.
55- 60	1070.
60- 65	910.
65- 70	713.
70- 75	525.
75- 80	391.
80- 85	309.
85- 90	248.
90- 95	191.
95-100	136.
100-105	92.
105-110	65.
110-115	45.
115-120	28.
120-125	16.
125-130	9.
130-135	5.
135-140	4.
140-145	3.
145-150	2.
150-155	2.
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	108
5- 10	314
10- 15	493
15- 20	653
20- 25	813
25- 30	956
30- 35	1054
35- 40	1121
40- 45	1178
45- 50	1203
50- 55	1169
55- 60	1070
60- 65	910
65- 70	713
70- 75	525
75- 80	391
80- 85	309
85- 90	248
90- 95	191
95-100	136
100-105	92
105-110	65
110-115	45
115-120	28
120-125	16
125-130	9
130-135	5
135-140	4
140-145	3
145-150	2
150-155	2
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	422
0- 20	1567
0- 30	3337
0- 40	5512
0- 50	7893
0- 60	10132
0- 70	11755
0- 80	12671
0- 90	13228
0-100	13555
0-110	13713
0-120	13786
0-130	13811
0-140	13820
0-150	13826
0-160	13829
0-170	13830
0-180	13831

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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.

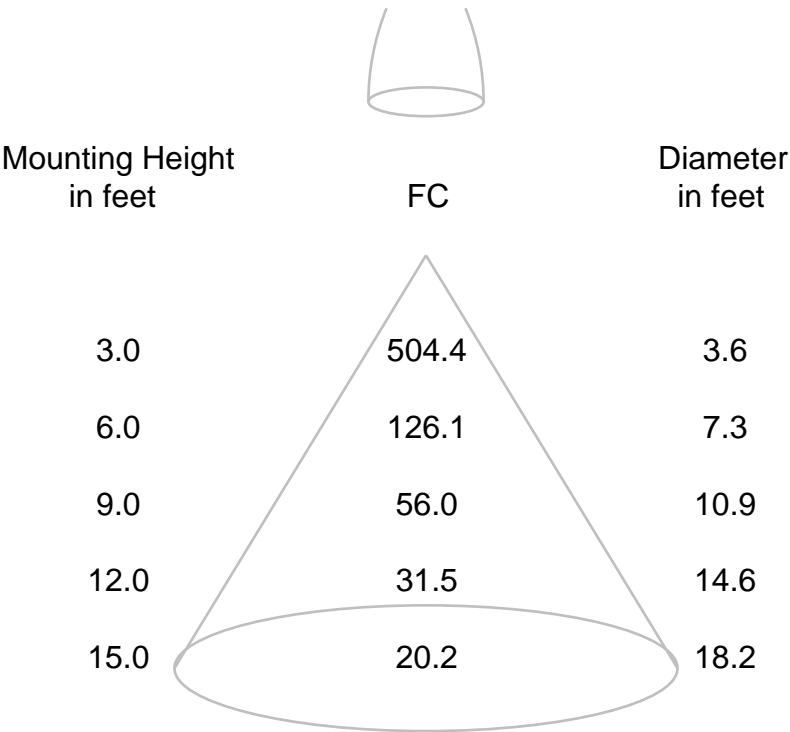


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# CONE OF LIGHT DIAGRAM

(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.