

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70YW/480/D10, SHARK8-70YW/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 = 73.6 W AT 480.0 VOLTS

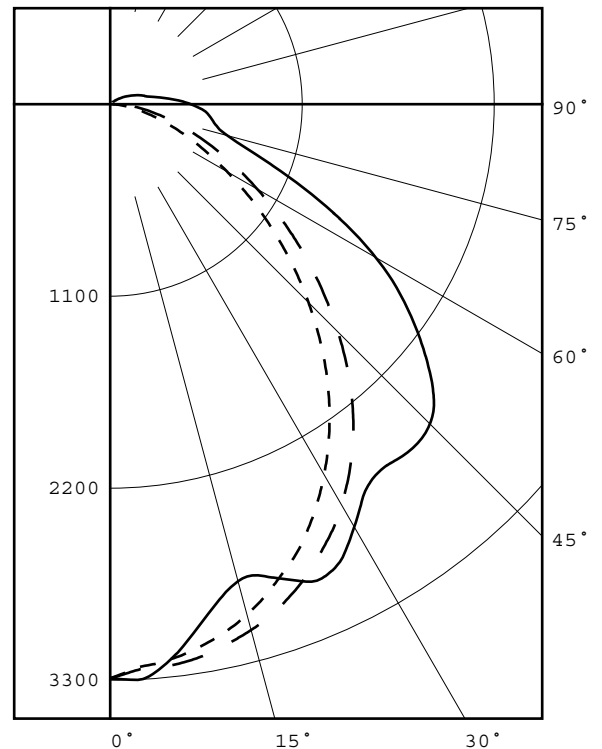
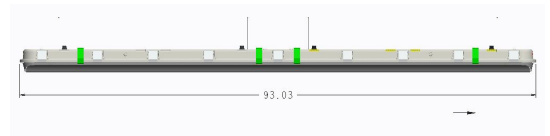
LED DRIVERS: 2 X RDD-LT40-A0700-60PF

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

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3290	3290	3290	3290	3290
5	3214	3259	3250	3286	3242
15	3027	2874	2830	2926	3120
25	2684	2690	2966	2759	2844
35	2191	2589	2621	2708	2418
45	1608	2157	2590	2290	1847
55	1030	1909	2099	2087	1246
65	561	1269	1341	1451	734
75	243	648	696	749	364
85	55	370	555	433	125
90	3	296	460	349	48
95	3	230	348	273	33
105	3	104	193	130	22
115	3	40	110	54	13
125	3	12	42	16	9
135	4	7	12	9	6
145	6	6	7	6	6
155	6	4	6	4	6
165	6	4	4	3	6
175	6	4	4	4	6
180	4	4	4	4	4

### FLUX



#### LEGEND:

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

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2418	24.1
0- 40	3994	39.9
0- 60	7342	73.3
0- 90	9586	95.6
90-120	404	4.0
90-130	423	4.2
90-150	433	4.3
90-180	437	4.4
0-180	10023	100.0

TOTAL INPUT WATTS = 73.6

EFFICACY = 136.2 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	6986.	8428.	8024.
55	5473.	7561.	6623.
65	3994.	5599.	5226.
75	2746.	3585.	4111.
85	1625.	3891.	3690.



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### ZONAL LUMEN SUMMARY

0- 5	78.
5- 10	227.
10- 15	357.
15- 20	473.
20- 25	590.
25- 30	693.
30- 35	764.
35- 40	812.
40- 45	854.
45- 50	872.
50- 55	847.
55- 60	775.
60- 65	659.
65- 70	517.
70- 75	380.
75- 80	283.
80- 85	224.
85- 90	179.
90- 95	139.
95-100	99.
100-105	67.
105-110	47.
110-115	32.
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	0.
170-175	0.
175-180	0.

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	78
5- 10	227
10- 15	357
15- 20	473
20- 25	590
25- 30	693
30- 35	764
35- 40	812
40- 45	854
45- 50	872
50- 55	847
55- 60	775
60- 65	659
65- 70	517
70- 75	380
75- 80	283
80- 85	224
85- 90	179
90- 95	139
95-100	99
100-105	67
105-110	47
110-115	32
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	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	306
0- 20	1136
0- 30	2418
0- 40	3994
0- 50	5720
0- 60	7342
0- 70	8519
0- 80	9183
0- 90	9586
0-100	9823
0-110	9937
0-120	9990
0-130	10008
0-140	10015
0-150	10019
0-160	10022
0-170	10023
0-180	10023

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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	24	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.

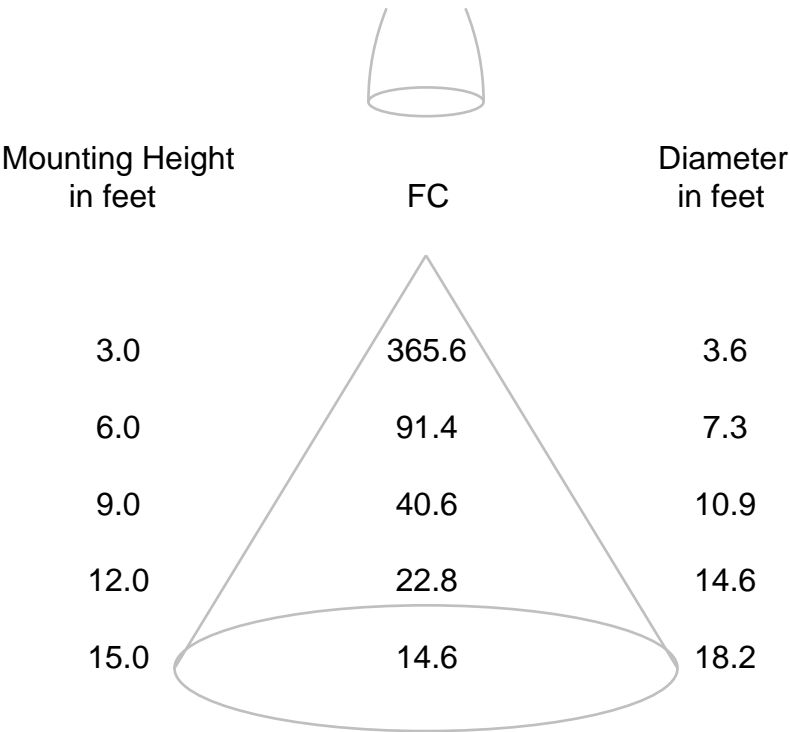


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### CONE OF LIGHT DIAGRAM

(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.