

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70W/480/D10, SHARK8-70W/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 = 74.3 W AT 480.0 VOLTS

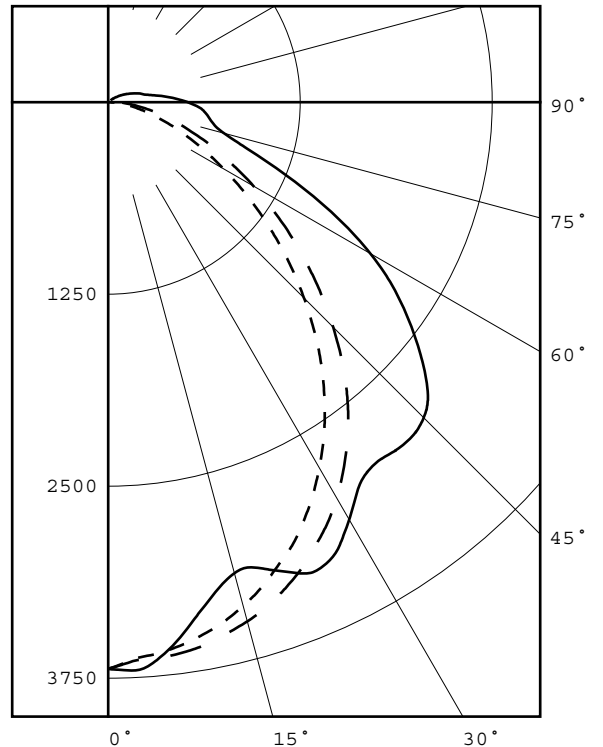
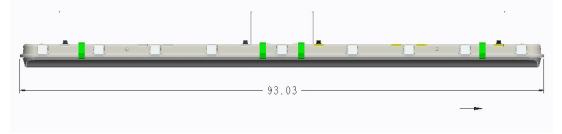
LED DRIVERS: 2 X RDD-LT40-A0700-60PF

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3691	3691	3691	3691	3691
5	3605	3656	3646	3686	3637
15	3396	3224	3175	3282	3500
25	3011	3018	3327	3095	3190
35	2458	2904	2941	3038	2713
45	1804	2420	2905	2569	2072
55	1155	2142	2355	2341	1398
65	630	1423	1504	1628	824
75	273	727	780	841	409
85	62	415	623	486	141
90	3	332	516	392	54
95	3	258	390	306	37
105	3	117	216	146	25
115	3	45	124	60	15
125	3	13	47	18	10
135	5	8	13	10	7
145	7	7	8	7	7
155	7	5	7	5	7
165	7	5	5	3	7
175	7	5	5	5	7
180	5	5	5	5	5

FLUX



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2713	24.1
0- 40	4481	39.9
0- 60	8237	73.3
0- 90	10753	95.6
90-120	454	4.0
90-130	474	4.2
90-150	486	4.3
90-180	491	4.4
0-180	11244	100.0

TOTAL INPUT WATTS = 74.3

EFFICACY = 151.3 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	7837.	9455.	9001.
55	6140.	8482.	7430.
65	4480.	6280.	5863.
75	3081.	4022.	4611.
85	1823.	4365.	4139.

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ZONAL LUMEN SUMMARY

0- 5	88.
5- 10	255.
10- 15	401.
15- 20	531.
20- 25	661.
25- 30	777.
30- 35	857.
35- 40	911.
40- 45	958.
45- 50	978.
50- 55	951.
55- 60	870.
60- 65	740.
65- 70	580.
70- 75	427.
75- 80	318.
80- 85	251.
85- 90	201.
90- 95	155.
95-100	111.
100-105	75.
105-110	53.
110-115	36.
115-120	23.
120-125	13.
125-130	7.
130-135	4.
135-140	3.
140-145	3.
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	88
5- 10	255
10- 15	401
15- 20	531
20- 25	661
25- 30	777
30- 35	857
35- 40	911
40- 45	958
45- 50	978
50- 55	951
55- 60	870
60- 65	740
65- 70	580
70- 75	427
75- 80	318
80- 85	251
85- 90	201
90- 95	155
95-100	111
100-105	75
105-110	53
110-115	36
115-120	23
120-125	13
125-130	7
130-135	4
135-140	3
140-145	3
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	343
0- 20	1274
0- 30	2713
0- 40	4481
0- 50	6416
0- 60	8237
0- 70	9556
0- 80	10301
0- 90	10753
0-100	11020
0-110	11148
0-120	11207
0-130	11227
0-140	11235
0-150	11240
0-160	11242
0-170	11244
0-180	11244

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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

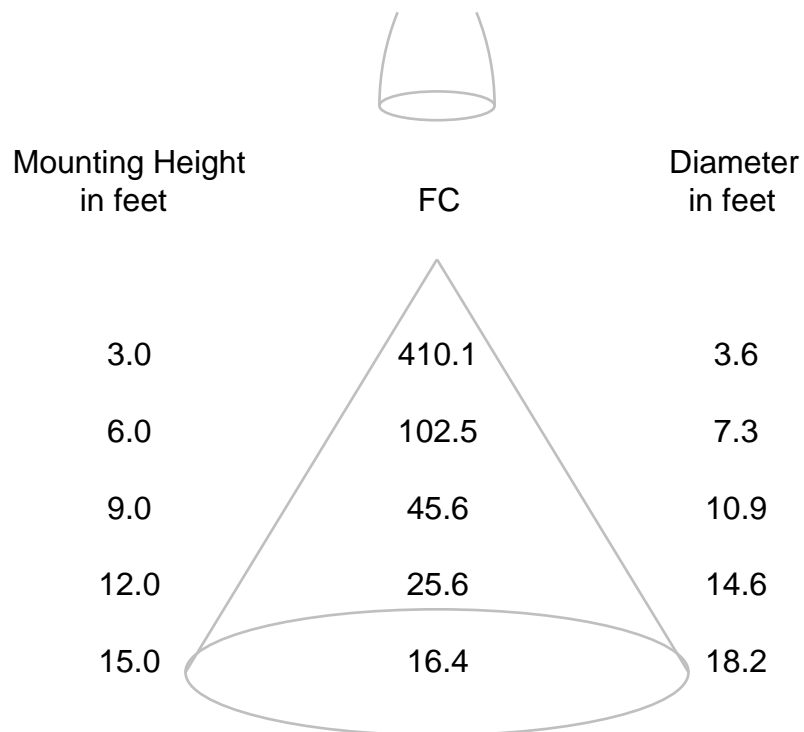
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.