

REPORT NUMBER: PRORATED FROM RAB02635

PAGE: 1 OF 9

ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70W/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 = 75.1 AT 277.0 VOLTS

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

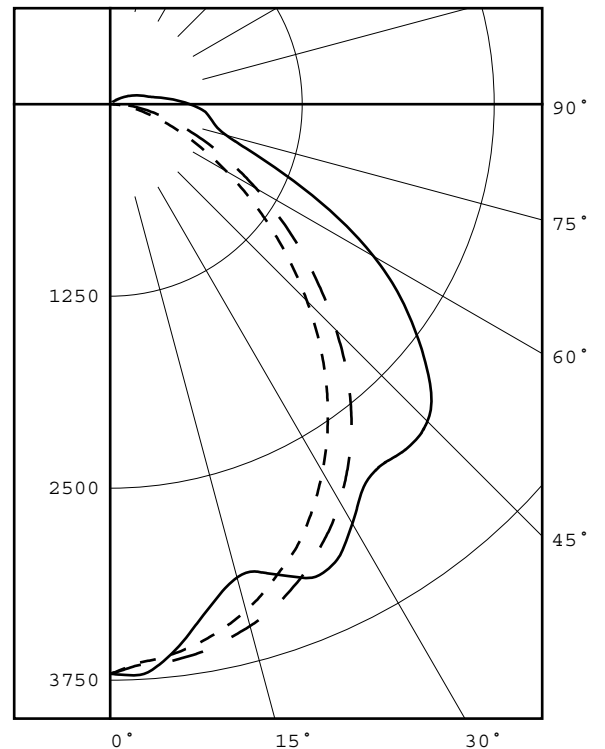
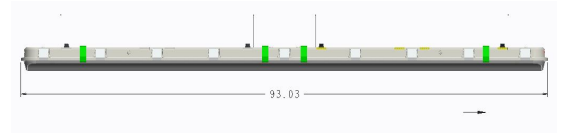
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3709	3709	3709	3709	3709
5	3623	3674	3664	3704	3655
15	3413	3240	3191	3299	3517
25	3026	3033	3344	3110	3206
35	2471	2918	2955	3053	2726
45	1813	2432	2920	2582	2082
55	1161	2153	2366	2353	1405
65	633	1431	1511	1636	828
75	274	730	784	845	411
85	62	417	626	488	141
90	3	333	518	394	54
95	3	259	392	308	37
105	3	118	217	146	25
115	3	45	125	61	15
125	3	13	47	19	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

345
936
1446
1777
1945
1829
1326
748
455
268
129
60
20
8
5
3
1
0



LEGEND:

0-deg: - - - - -
 90-deg: _____
 180-deg: - . - . - .

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2726	24.1
0- 40	4503	39.9
0- 60	8278	73.3
0- 90	10807	95.6
90-120	456	4.0
90-130	476	4.2
90-150	488	4.3
90-180	493	4.4
0-180	11300	100.0

TOTAL INPUT WATTS = 75.1

EFFICACY = 150.5 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

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
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PAGE: 2 OF 9

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

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
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PAGE: 3 OF 9

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

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 9

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	7876.	9502.	9046.
55	6171.	8524.	7467.
65	4503.	6312.	5892.
75	3096.	4042.	4634.
85	1832.	4387.	4160.

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 9

ZONAL LUMEN SUMMARY

0- 5	88.
5- 10	256.
10- 15	403.
15- 20	533.
20- 25	665.
25- 30	781.
30- 35	861.
35- 40	916.
40- 45	962.
45- 50	983.
50- 55	955.
55- 60	874.
60- 65	743.
65- 70	583.
70- 75	429.
75- 80	319.
80- 85	252.
85- 90	202.
90- 95	156.
95-100	111.
100-105	75.
105-110	53.
110-115	37.
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.

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 7 OF 9

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	88
5- 10	256
10- 15	403
15- 20	533
20- 25	665
25- 30	781
30- 35	861
35- 40	916
40- 45	962
45- 50	983
50- 55	955
55- 60	874
60- 65	743
65- 70	583
70- 75	429
75- 80	319
80- 85	252
85- 90	202
90- 95	156
95-100	111
100-105	75
105-110	53
110-115	37
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	345
0- 20	1281
0- 30	2726
0- 40	4503
0- 50	6449
0- 60	8278
0- 70	9604
0- 80	10353
0- 90	10807
0-100	11075
0-110	11204
0-120	11263
0-130	11284
0-140	11291
0-150	11296
0-160	11298
0-170	11300
0-180	11300

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16

PAGE: 8 OF 9

PREPARED FOR: RAB LIGHTING INC.

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

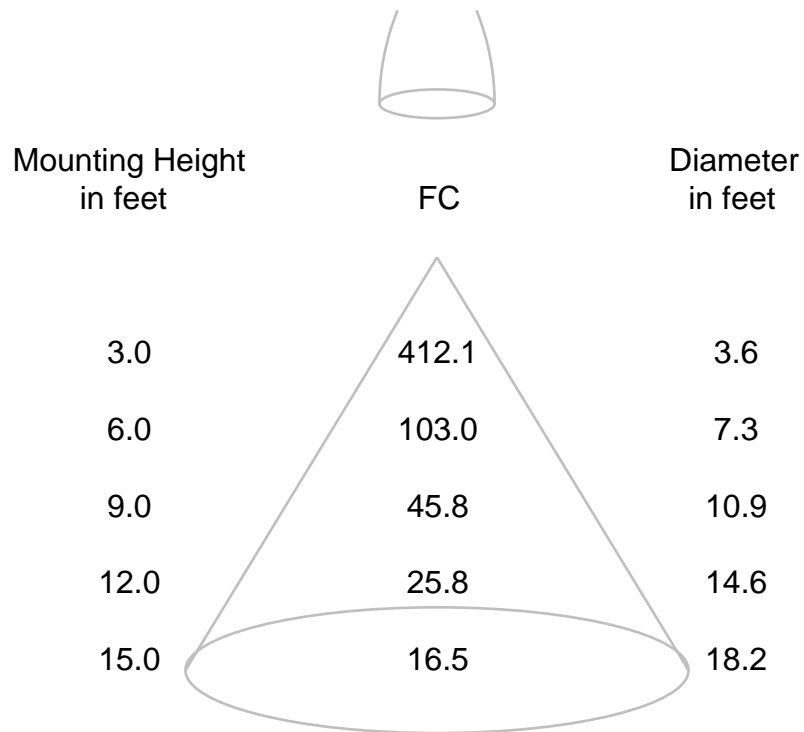
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

REPORT NUMBER: PRORATED FROM RAB02635
ISSUE DATE: 12/15/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 9 OF 9

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.