

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70YW/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 = 74.4 W AT 277.0 VOLTS

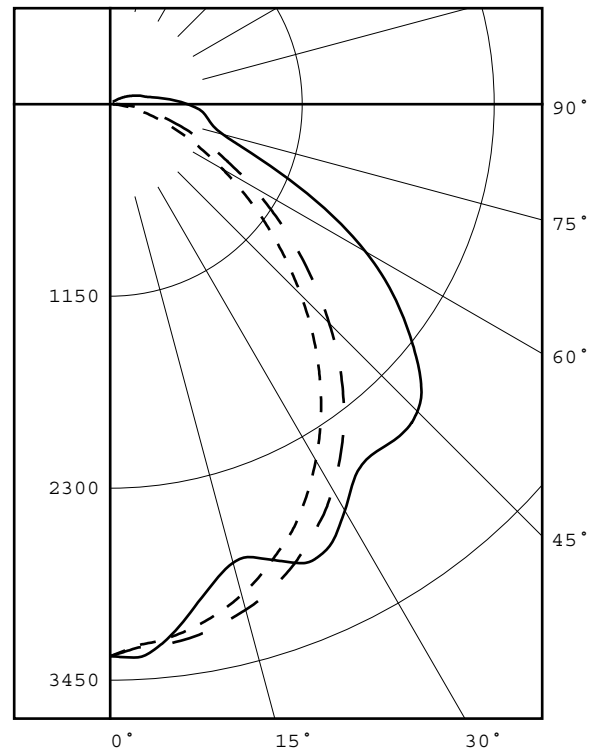
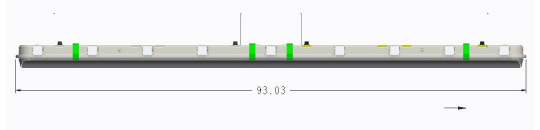
LED DRIVERS: 2 X RD-042-A0700-C

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3306	3306	3306	3306	3306
5	3230	3275	3266	3302	3258
15	3042	2888	2844	2940	3135
25	2697	2703	2981	2772	2858
35	2202	2601	2634	2721	2430
45	1616	2168	2603	2301	1856
55	1035	1919	2109	2097	1253
65	564	1275	1347	1458	738
75	245	651	699	753	366
85	56	372	558	435	126
90	3	297	462	351	48
95	3	231	350	275	33
105	3	105	194	131	23
115	3	41	111	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	2430	24.1
0- 40	4014	39.9
0- 60	7378	73.3
0- 90	9632	95.6
90-120	406	4.0
90-130	425	4.2
90-150	435	4.3
90-180	439	4.4
0-180	10072	100.0

TOTAL INPUT WATTS = 74.4

EFFICACY = 135.4 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	7020.	8469.	8063.
55	5500.	7598.	6655.
65	4013.	5626.	5251.
75	2759.	3603.	4131.
85	1633.	3910.	3707.

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ZONAL LUMEN SUMMARY

0- 5	79.
5- 10	229.
10- 15	359.
15- 20	475.
20- 25	592.
25- 30	696.
30- 35	767.
35- 40	816.
40- 45	858.
45- 50	876.
50- 55	851.
55- 60	779.
60- 65	663.
65- 70	519.
70- 75	382.
75- 80	285.
80- 85	225.
85- 90	180.
90- 95	139.
95-100	99.
100-105	67.
105-110	47.
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	229
10- 15	359
15- 20	475
20- 25	592
25- 30	696
30- 35	767
35- 40	816
40- 45	858
45- 50	876
50- 55	851
55- 60	779
60- 65	663
65- 70	519
70- 75	382
75- 80	285
80- 85	225
85- 90	180
90- 95	139
95-100	99
100-105	67
105-110	47
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	307
0- 20	1141
0- 30	2430
0- 40	4014
0- 50	5747
0- 60	7378
0- 70	8560
0- 80	9227
0- 90	9632
0-100	9871
0-110	9986
0-120	10039
0-130	10057
0-140	10064
0-150	10068
0-160	10070
0-170	10071
0-180	10072

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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

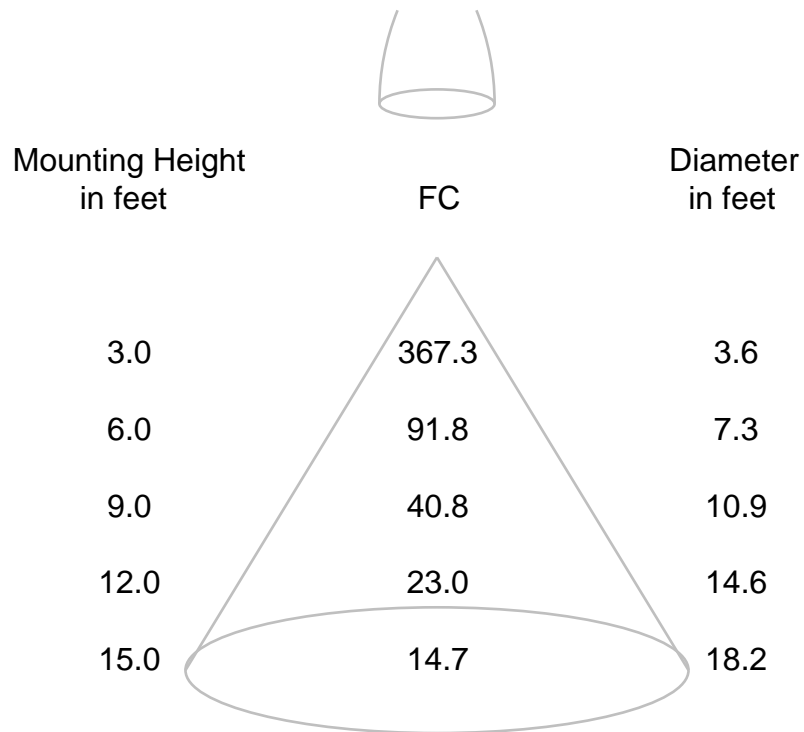
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.