

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-70NW/480/D10, SHARK8-70NW/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 = 73.4 W AT 480.0 VOLTS

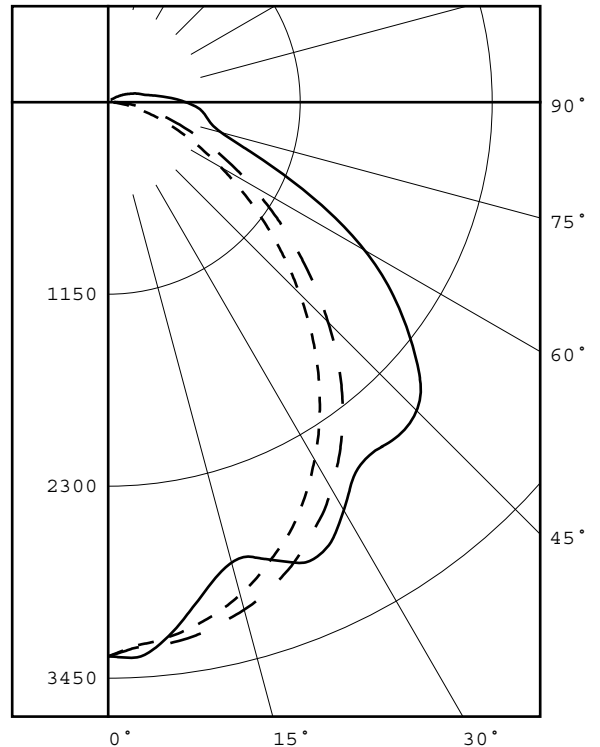
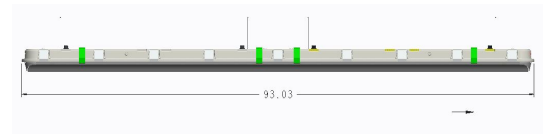
LED DRIVERS: 2 X RDD-LT40-A0700-60PF

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3319	3319	3319	3319	3319
5	3242	3288	3279	3315	3271
15	3054	2899	2855	2952	3147
25	2708	2714	2992	2783	2869
35	2211	2611	2644	2732	2440
45	1622	2176	2613	2310	1863
55	1039	1926	2117	2105	1257
65	566	1280	1352	1464	741
75	245	654	702	756	367
85	56	373	560	437	127
90	3	298	464	352	48
95	3	232	351	276	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	2440	24.1
0- 40	4030	39.9
0- 60	7407	73.3
0- 90	9671	95.6
90-120	408	4.0
90-130	426	4.2
90-150	437	4.3
90-180	441	4.4
0-180	10112	100.0

TOTAL INPUT WATTS = 73.4

EFFICACY = 137.8 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	7048.	8502.	8095.
55	5521.	7628.	6682.
65	4029.	5648.	5272.
75	2770.	3617.	4147.
85	1640.	3926.	3722.

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ZONAL LUMEN SUMMARY

0- 5	79.
5- 10	229.
10- 15	360.
15- 20	477.
20- 25	595.
25- 30	699.
30- 35	770.
35- 40	820.
40- 45	861.
45- 50	880.
50- 55	855.
55- 60	782.
60- 65	665.
65- 70	521.
70- 75	384.
75- 80	286.
80- 85	226.
85- 90	181.
90- 95	140.
95-100	100.
100-105	68.
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	360
15- 20	477
20- 25	595
25- 30	699
30- 35	770
35- 40	820
40- 45	861
45- 50	880
50- 55	855
55- 60	782
60- 65	665
65- 70	521
70- 75	384
75- 80	286
80- 85	226
85- 90	181
90- 95	140
95-100	100
100-105	68
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	308
0- 20	1146
0- 30	2440
0- 40	4030
0- 50	5770
0- 60	7407
0- 70	8594
0- 80	9264
0- 90	9671
0-100	9910
0-110	10025
0-120	10079
0-130	10097
0-140	10104
0-150	10108
0-160	10110
0-170	10111
0-180	10112

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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

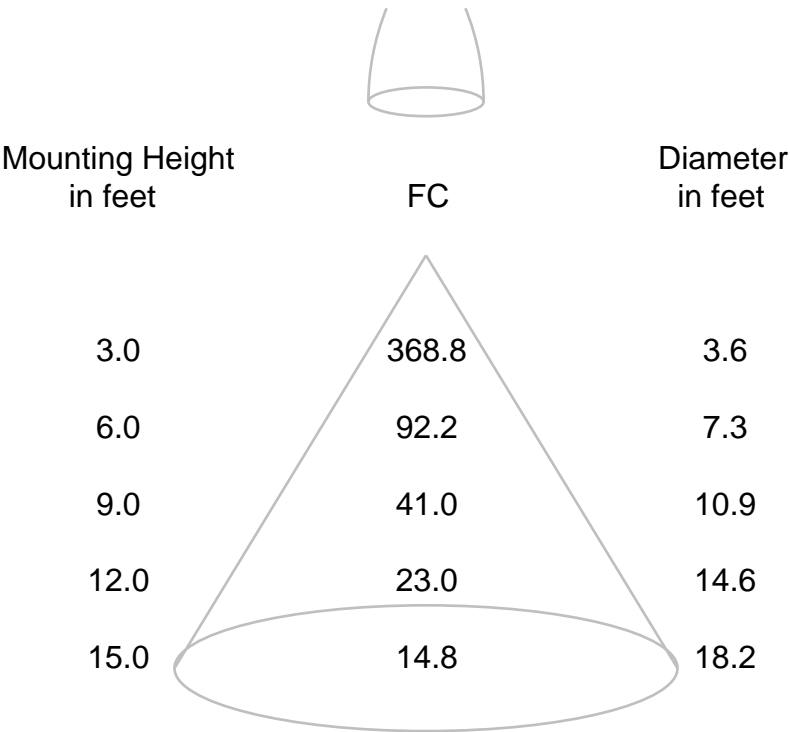
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.