

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-100YW/480/D10, SHARK8-100YW/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 = 98.9 AT 480.0 VOLTS

LED DRIVERS: 2 X RD-H0650A1810-480

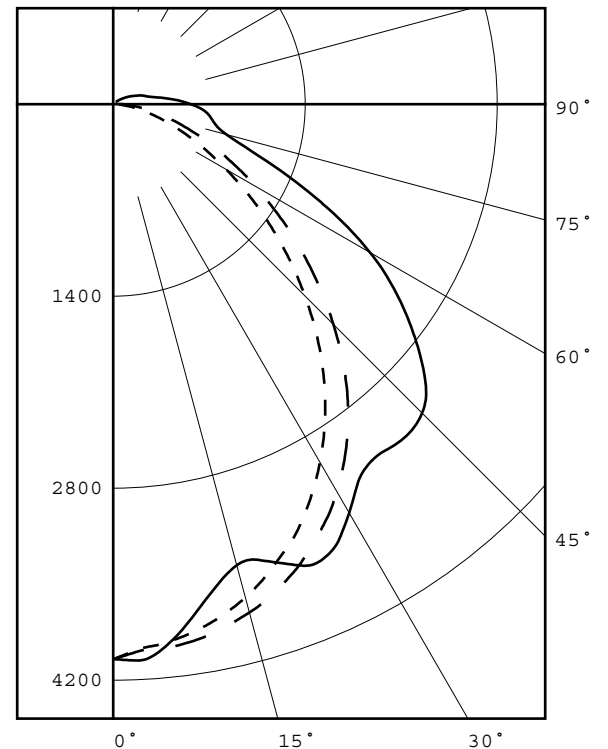
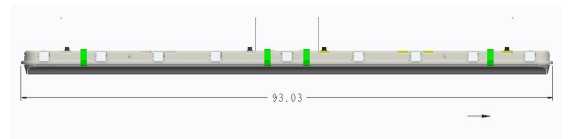
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	4047	4047	4047	4047	4047
5	3953	4008	3997	4041	3988
15	3724	3535	3481	3599	3838
25	3301	3309	3649	3393	3498
35	2696	3184	3224	3331	2975
45	1978	2653	3186	2817	2271
55	1267	2348	2582	2567	1533
65	690	1561	1649	1785	903
75	299	797	856	922	448
85	68	455	683	532	154
90	4	364	566	430	59
95	4	283	428	336	40
105	4	129	237	160	28
115	4	50	136	66	17
125	4	15	51	20	11
135	6	9	15	11	7
145	7	7	9	7	7
155	7	6	7	6	7
165	7	6	6	4	7
175	7	6	6	6	7
180	6	6	6	6	6

FLUX

376
1021
1577
1939
2122
1996
1447
817
496
292
140
65
22
8
5
3
2
1



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	2974	24.1
0- 40	4913	39.9
0- 60	9031	73.3
0- 90	11791	95.6
90-120	497	4.0
90-130	520	4.2
90-150	533	4.3
90-180	538	4.4
0-180	12329	100.0

TOTAL INPUT WATTS = 98.9

EFFICACY = 124.7 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	8593.	10367.	9870.
55	6732.	9300.	8147.
65	4913.	6886.	6428.
75	3378.	4410.	5056.
85	1999.	4787.	4538.

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ZONAL LUMEN SUMMARY

0- 5	96.
5- 10	280.
10- 15	439.
15- 20	582.
20- 25	725.
25- 30	852.
30- 35	939.
35- 40	999.
40- 45	1050.
45- 50	1073.
50- 55	1042.
55- 60	954.
60- 65	811.
65- 70	636.
70- 75	468.
75- 80	349.
80- 85	275.
85- 90	221.
90- 95	170.
95-100	122.
100-105	82.
105-110	58.
110-115	40.
115-120	25.
120-125	14.
125-130	8.
130-135	5.
135-140	3.
140-145	3.
145-150	2.
150-155	2.
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	96
5- 10	280
10- 15	439
15- 20	582
20- 25	725
25- 30	852
30- 35	939
35- 40	999
40- 45	1050
45- 50	1073
50- 55	1042
55- 60	954
60- 65	811
65- 70	636
70- 75	468
75- 80	349
80- 85	275
85- 90	221
90- 95	170
95-100	122
100-105	82
105-110	58
110-115	40
115-120	25
120-125	14
125-130	8
130-135	5
135-140	3
140-145	3
145-150	2
150-155	2
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	376
0- 20	1397
0- 30	2974
0- 40	4913
0- 50	7036
0- 60	9031
0- 70	10478
0- 80	11295
0- 90	11791
0-100	12083
0-110	12223
0-120	12289
0-130	12311
0-140	12319
0-150	12324
0-160	12327
0-170	12328
0-180	12329

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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

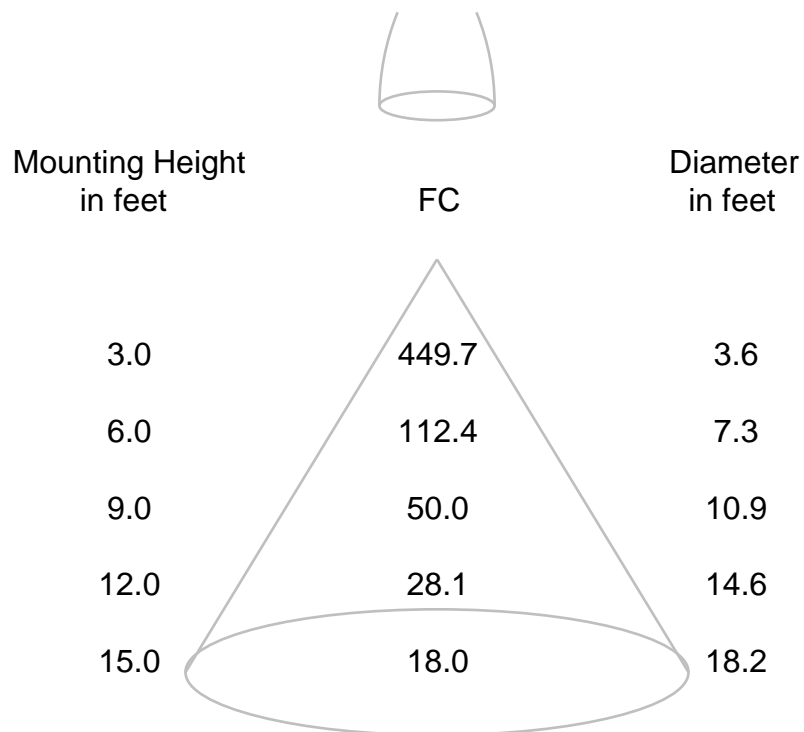
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.