

REPORT NUMBER: PRORATED FROM RAB02635

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ISSUE DATE: 12/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK8-100NW/480/D10, SHARK8-100NW/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 = 98.6 AT 480.0 VOLTS

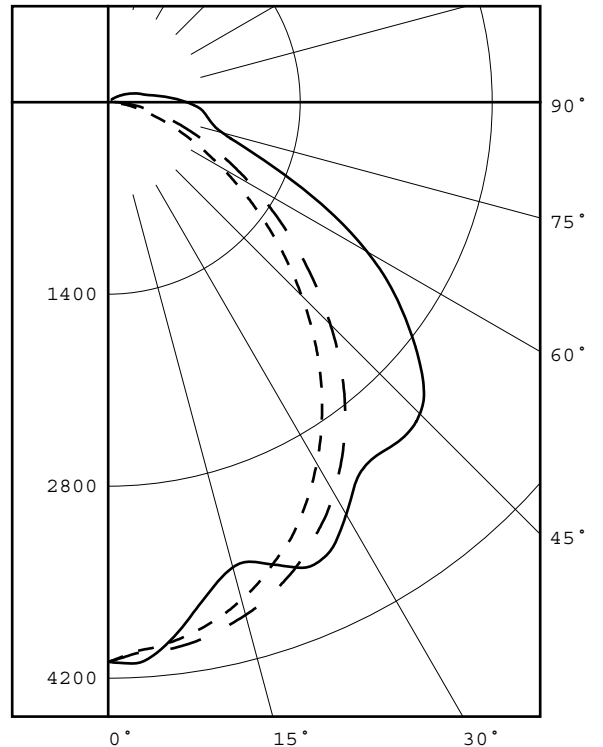
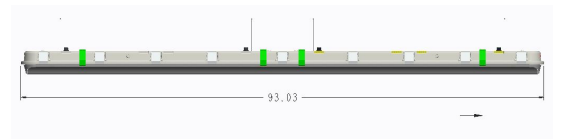
LED DRIVERS: 2 X RD-H0650A1810-480

(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	4083	4083	4083	4083	4083
5	3988	4044	4033	4077	4024
15	3757	3566	3512	3631	3872
25	3331	3338	3681	3423	3529
35	2719	3212	3253	3360	3001
45	1995	2677	3214	2842	2291
55	1278	2369	2605	2590	1547
65	697	1575	1664	1801	911
75	302	804	863	930	452
85	69	459	689	537	156
90	4	367	571	433	59
95	4	285	432	339	41
105	4	130	239	161	28
115	4	50	137	67	17
125	4	15	52	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



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3001	24.1
0- 40	4957	39.9
0- 60	9111	73.3
0- 90	11895	95.6
90-120	502	4.0
90-130	524	4.2
90-150	538	4.3
90-180	543	4.4
0-180	12438	100.0

TOTAL INPUT WATTS = 98.6

EFFICACY = 126.1 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	8669.	10459.	9957.
55	6792.	9383.	8219.
65	4956.	6947.	6485.
75	3408.	4449.	5101.
85	2017.	4829.	4579.

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ZONAL LUMEN SUMMARY

0- 5	97.
5- 10	282.
10- 15	443.
15- 20	587.
20- 25	732.
25- 30	860.
30- 35	948.
35- 40	1008.
40- 45	1059.
45- 50	1082.
50- 55	1052.
55- 60	962.
60- 65	818.
65- 70	641.
70- 75	472.
75- 80	352.
80- 85	278.
85- 90	223.
90- 95	172.
95-100	123.
100-105	83.
105-110	58.
110-115	40.
115-120	25.
120-125	15.
125-130	8.
130-135	5.
135-140	4.
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	97
5- 10	282
10- 15	443
15- 20	587
20- 25	732
25- 30	860
30- 35	948
35- 40	1008
40- 45	1059
45- 50	1082
50- 55	1052
55- 60	962
60- 65	818
65- 70	641
70- 75	472
75- 80	352
80- 85	278
85- 90	223
90- 95	172
95-100	123
100-105	83
105-110	58
110-115	40
115-120	25
120-125	15
125-130	8
130-135	5
135-140	4
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	379
0- 20	1410
0- 30	3001
0- 40	4957
0- 50	7098
0- 60	9111
0- 70	10571
0- 80	11395
0- 90	11895
0-100	12190
0-110	12332
0-120	12397
0-130	12420
0-140	12428
0-150	12433
0-160	12436
0-170	12438
0-180	12438

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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	80	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	37	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

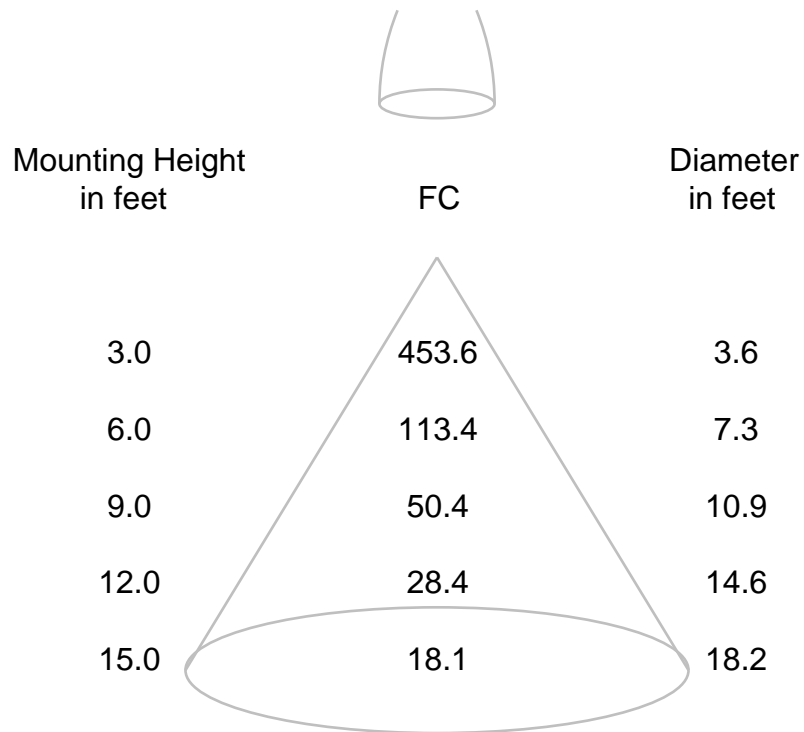
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.