

REPORT NUMBER: SCALED FROM RAB00969

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ISSUE DATE: 07/29/15

DATE SAMPLE TESTED: 07/29/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK4-50W/480 (STANDARD DISTRIBUTION)

LUMINAIRE: FABRICATED WHITE PLASTIC HOUSING, PERFORATED WHITE METAL HEAT SINK, 2 WHITE CIRCUIT BOARDS EACH WITH 64 LEDS, FROSTED POLYCARBONATE LENS ENCLOSURE.

LAMPS: ONE HUNDRED AND TWENTY EIGHT WHITE EMITTING DIODES (LEDs), TILTED 15-DEGREE FROM VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 52.57 AT 480.0 VOLTS

LED DRIVERS: RD-H065-A1360-480

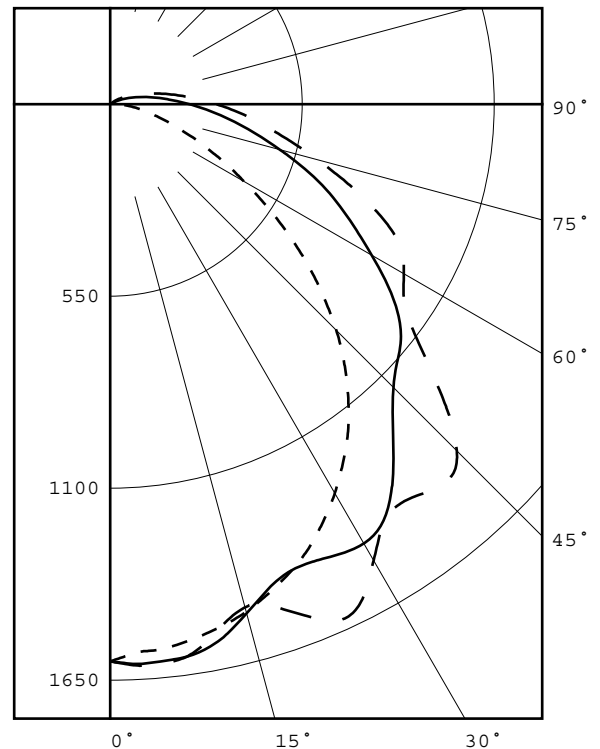
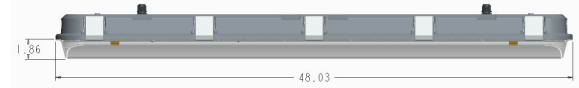
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1597	1597	1597	1597	1597
5	1569	1581	1603	1611	1610
15	1505	1525	1511	1491	1493
25	1379	1378	1437	1581	1618
35	1182	1212	1395	1395	1415
45	916	1027	1147	1358	1404
55	596	744	996	1053	1039
65	319	466	744	855	905
75	145	263	504	608	616
85	51	133	306	376	393
90	17	91	226	287	305
95	15	63	165	217	230
105	12	20	79	112	119
115	9	9	26	48	54
125	6	5	4	11	17
135	4	4	3	3	2
145	4	3	3	3	2
155	4	4	3	3	3
165	4	4	3	3	3
175	5	4	3	3	3
180	4	4	4	4	4

FLUX

152
427
676
832
899
811
662
467
285
157
75
29
8
3
2
2
1
0



LEGEND:

0-deg: - - - - -
 45-deg: _____
 90-deg: — — — — —

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1255	22.9
0- 40	2088	38.0
0- 60	3798	69.2
0- 90	5211	95.0
90-120	260	4.7
90-130	268	4.9
90-150	273	5.0
90-180	276	5.0
0-180	5487	100.0

TOTAL INPUT WATTS = 52.57

EFFICACY = 104.4 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.4

Checked X.CAO
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
VOLTAGE TO THE LED DRIVERS.
TEST PROCEDURE: IESNA LM-79-08
TEST DISTANCE = 28.25 FEET
ACCREDITED LABORATORY CODE 201058-0

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 96.8 X 137.1 DEGREES
FIELD ANGLE (10%) : 147.5 X 201.2 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1597	1597	1597	1597	1597
5.0	1569	1581	1603	1611	1610
10.0	1544	1562	1584	1573	1568
15.0	1505	1525	1511	1491	1493
20.0	1449	1462	1441	1507	1550
25.0	1379	1378	1437	1581	1618
30.0	1287	1292	1453	1524	1510
35.0	1182	1212	1395	1395	1415
40.0	1058	1128	1262	1360	1442
45.0	916	1027	1147	1358	1404
50.0	759	895	1084	1230	1209
55.0	596	744	996	1053	1039
60.0	443	596	865	937	972
65.0	319	466	744	855	905
70.0	218	356	628	743	765
75.0	145	263	504	608	616
80.0	92	189	397	481	490
85.0	51	133	306	376	393
90.0	17	91	226	287	305
95.0	15	63	165	217	230
100.0	14	41	117	158	168
105.0	12	20	79	112	119
110.0	11	10	48	77	82
115.0	9	9	26	48	54
120.0	6	6	6	29	34
125.0	6	5	4	11	17
130.0	4	4	3	3	3
135.0	4	4	3	3	2
140.0	4	4	3	3	2
145.0	4	3	3	3	2
150.0	4	3	3	3	3
155.0	4	4	3	3	3
160.0	4	4	3	3	3
165.0	4	4	3	3	3
170.0	5	4	3	3	3
175.0	5	4	3	3	3
180.0	4	4	4	4	4

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ZONAL LUMEN SUMMARY

0- 5	38.
5- 10	113.
10- 15	182.
15- 20	245.
20- 25	310.
25- 30	367.
30- 35	403.
35- 40	429.
40- 45	449.
45- 50	450.
50- 55	424.
55- 60	387.
60- 65	351.
65- 70	310.
70- 75	259.
75- 80	207.
80- 85	162.
85- 90	123.
90- 95	91.
95-100	66.
100-105	45.
105-110	29.
110-115	18.
115-120	10.
120-125	5.
125-130	2.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	1.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	38
5- 10	113
10- 15	182
15- 20	245
20- 25	310
25- 30	367
30- 35	403
35- 40	429
40- 45	449
45- 50	450
50- 55	424
55- 60	387
60- 65	351
65- 70	310
70- 75	259
75- 80	207
80- 85	162
85- 90	123
90- 95	91
95-100	66
100-105	45
105-110	29
110-115	18
115-120	10
120-125	5
125-130	2
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	152
0- 20	579
0- 30	1255
0- 40	2088
0- 50	2987
0- 60	3798
0- 70	4459
0- 80	4926
0- 90	5211
0-100	5368
0-110	5443
0-120	5472
0-130	5479
0-140	5482
0-150	5484
0-160	5486
0-170	5487
0-180	5487

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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	108	108	108	103	103	103	97	97	97	95
1	106	100	95	91	103	98	93	89	92	89	85	88	85	82	83	81	78	76
2	96	87	79	73	92	84	77	72	80	74	69	76	71	67	72	68	65	62
3	87	76	67	60	84	74	66	59	70	63	57	66	61	56	63	58	54	52
4	79	67	57	50	77	65	56	50	62	54	48	59	52	47	56	51	46	44
5	73	59	50	43	70	58	49	43	55	47	42	53	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	36	45	39	35	33
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	28	40	33	28	38	32	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	25	23
10	50	37	29	24	49	36	29	23	35	28	23	34	27	23	32	27	22	21

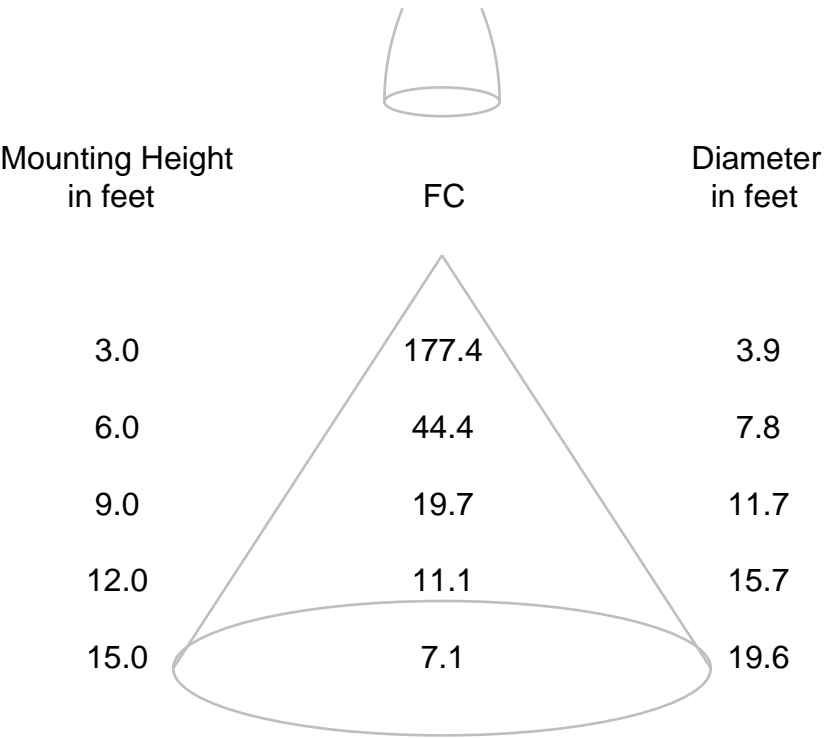
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.