

REPORT NUMBER: SCALED FROM RAB01124

ISSUE DATE: 09/08/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK4-50YNW/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 = 52.256 AT 480.0 VOLTS

LED DRIVERS: RD-H065-A1360-480

(SEE PAGE 2 FOR MORE INFORMATION)

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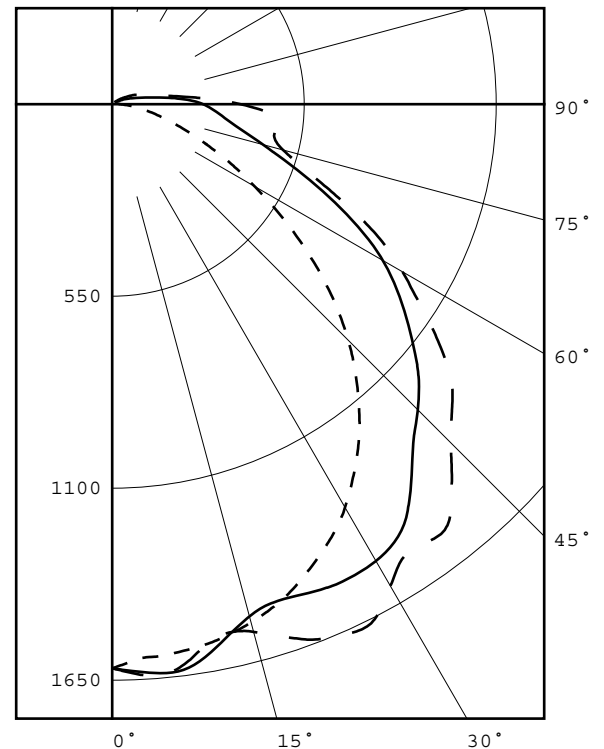
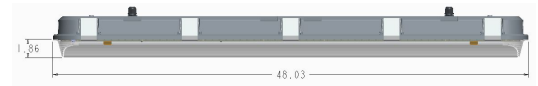
DATE SAMPLE TESTED: 09/08/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1616	1616	1616	1616	1616
5	1587	1603	1636	1646	1643
15	1537	1549	1519	1544	1565
25	1418	1382	1518	1628	1665
35	1225	1260	1462	1493	1545
45	957	1082	1239	1362	1372
55	631	788	1019	1120	1121
65	339	491	738	791	797
75	152	262	448	494	507
85	52	131	306	433	475
90	20	94	263	355	384
95	17	66	188	229	228
105	12	20	69	99	104
115	7	9	27	51	57
125	5	6	7	15	20
135	4	4	5	6	6
145	4	4	4	4	4
155	4	4	4	4	4
165	4	4	3	3	3
175	4	4	3	3	3
180	3	3	3	3	3

FLUX

154
438
699
878
935
848
641
415
304
169
68
30
10
4
3
2
1
0



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1291	23.1
0- 40	2169	38.8
0- 60	3952	70.6
0- 90	5311	94.9
90-120	266	4.8
90-130	276	4.9
90-150	283	5.1
90-180	286	5.1
0-180	5598	100.0

TOTAL INPUT WATTS = 52.256

EFFICACY = 107.1 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.5

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%) : 97.9 X 128.0 DEGREES
FIELD ANGLE (10%): 148.1 X 196.5 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1616	1616	1616	1616	1616
5.0	1587	1603	1636	1646	1643
10.0	1570	1596	1599	1576	1569
15.0	1537	1549	1519	1544	1565
20.0	1489	1466	1502	1602	1632
25.0	1418	1382	1518	1628	1665
30.0	1334	1324	1512	1597	1595
35.0	1225	1260	1462	1493	1545
40.0	1097	1183	1338	1473	1511
45.0	957	1082	1239	1362	1372
50.0	798	948	1138	1242	1273
55.0	631	788	1019	1120	1121
60.0	471	633	895	946	961
65.0	339	491	738	791	797
70.0	232	367	576	627	621
75.0	152	262	448	494	507
80.0	95	183	360	440	472
85.0	52	131	306	433	475
90.0	20	94	263	355	384
95.0	17	66	188	229	228
100.0	14	38	112	138	139
105.0	12	20	69	99	104
110.0	10	11	45	74	81
115.0	7	9	27	51	57
120.0	6	7	11	31	36
125.0	5	6	7	15	20
130.0	4	5	6	7	9
135.0	4	4	5	6	6
140.0	4	4	4	5	5
145.0	4	4	4	4	4
150.0	4	4	4	4	4
155.0	4	4	4	4	4
160.0	4	4	3	3	3
165.0	4	4	3	3	3
170.0	4	4	3	3	3
175.0	4	4	3	3	3
180.0	3	3	3	3	3

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ZONAL LUMEN SUMMARY

0- 5	39.
5- 10	115.
10- 15	185.
15- 20	253.
20- 25	320.
25- 30	379.
30- 35	423.
35- 40	455.
40- 45	470.
45- 50	465.
50- 55	444.
55- 60	404.
60- 65	351.
65- 70	290.
70- 75	229.
75- 80	186.
80- 85	163.
85- 90	141.
90- 95	104.
95-100	65.
100-105	40.
105-110	27.
110-115	19.
115-120	11.
120-125	6.
125-130	3.
130-135	2.
135-140	2.
140-145	2.
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	39
5- 10	115
10- 15	185
15- 20	253
20- 25	320
25- 30	379
30- 35	423
35- 40	455
40- 45	470
45- 50	465
50- 55	444
55- 60	404
60- 65	351
65- 70	290
70- 75	229
75- 80	186
80- 85	163
85- 90	141
90- 95	104
95-100	65
100-105	40
105-110	27
110-115	19
115-120	11
120-125	6
125-130	3
130-135	2
135-140	2
140-145	2
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	154
0- 20	592
0- 30	1291
0- 40	2169
0- 50	3104
0- 60	3952
0- 70	4593
0- 80	5008
0- 90	5311
0-100	5480
0-110	5548
0-120	5578
0-130	5588
0-140	5592
0-150	5595
0-160	5597
0-170	5598
0-180	5598

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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	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	106	101	96	91	103	98	93	89	93	89	86	88	85	82	83	81	79	76
2	96	87	80	73	93	85	78	72	80	75	70	76	71	67	72	69	65	63
3	87	76	67	61	84	74	66	60	70	64	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	60	51	44	71	58	50	43	56	48	42	53	46	41	51	45	40	38
6	67	54	44	38	65	52	44	37	50	42	37	48	41	36	46	40	35	33
7	62	49	40	33	60	47	39	33	45	38	32	44	37	32	42	36	31	29
8	58	44	35	30	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	37	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

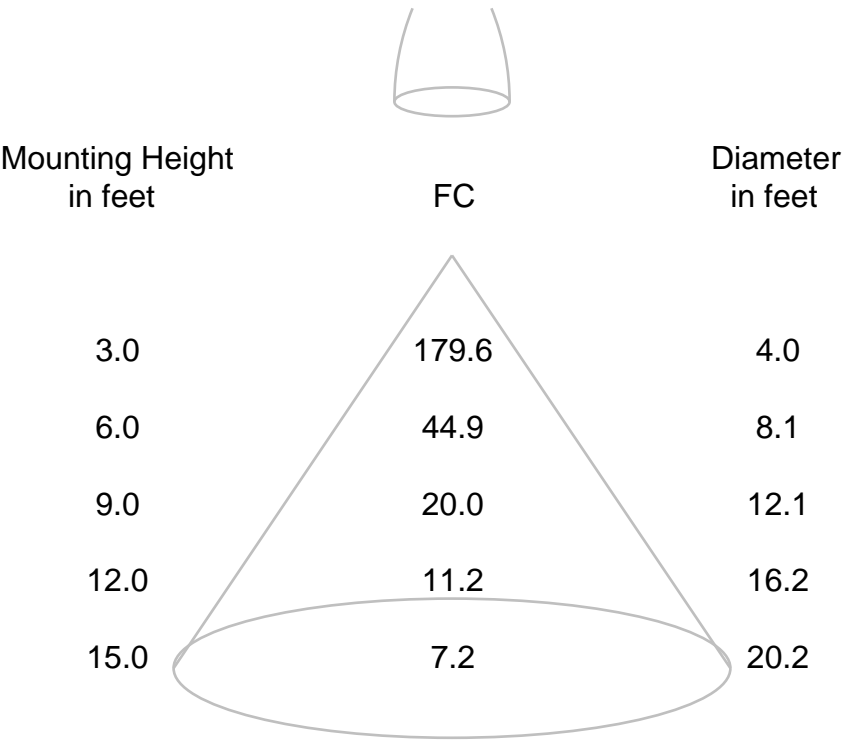
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.