

REPORT NUMBER: SCALED FROM RAB00964

ISSUE DATE: 07/23/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK4-36NW/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 = 36.646 AT 480.0 VOLTS

LED DRIVERS: RD-LT40-A0700-60PF

(SEE PAGE 2 FOR MORE INFORMATION)

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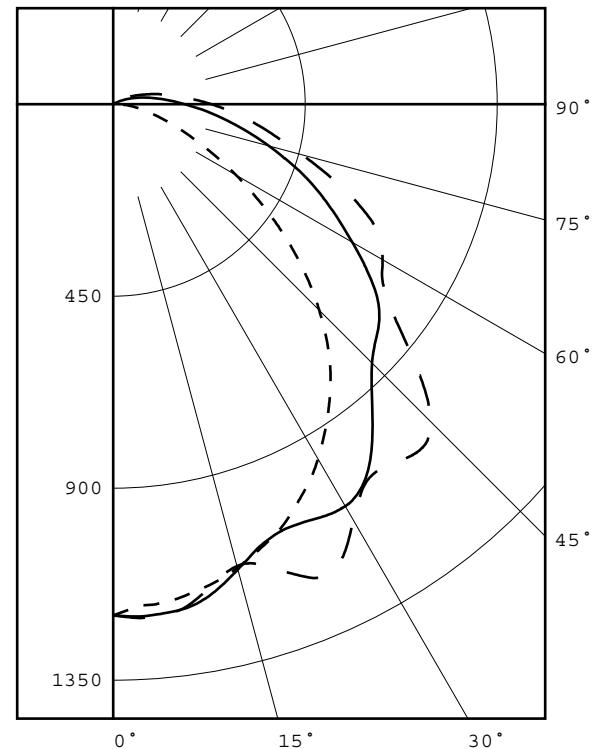
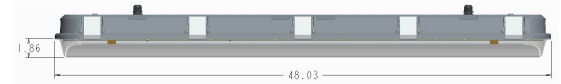
DATE SAMPLE TESTED: 07/23/15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1198	1198	1198	1198	1198
5	1176	1185	1201	1206	1204
15	1125	1139	1129	1118	1121
25	1028	1031	1079	1183	1210
35	880	907	1044	1045	1061
45	683	767	859	1017	1051
55	445	556	747	791	782
65	236	351	557	643	677
75	106	196	379	455	459
85	37	98	229	284	296
90	12	68	169	218	230
95	11	47	123	165	174
105	9	15	60	86	91
115	6	6	19	36	41
125	4	4	3	8	13
135	3	3	3	2	2
145	3	3	2	2	2
155	3	3	3	2	2
165	4	3	3	2	2
175	4	3	3	2	2
180	3	3	3	3	3

FLUX

113
320
506
623
673
608
496
349
214
118
57
22
6
2
2
1
1
0



LEGEND:

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	940	22.9
0- 40	1563	38.0
0- 60	2843	69.2
0- 90	3902	94.9
90-120	196	4.8
90-130	202	4.9
90-150	206	5.0
90-180	208	5.1
0-180	4110	100.0

TOTAL INPUT WATTS = 36.646

EFFICACY = 112.2 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%): 147.1 X 201.8 DEGREES

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1198	1198	1198	1198	1198
5.0	1176	1185	1201	1206	1204
10.0	1156	1168	1183	1178	1171
15.0	1125	1139	1129	1118	1121
20.0	1084	1093	1082	1132	1165
25.0	1028	1031	1079	1183	1210
30.0	960	967	1089	1138	1126
35.0	880	907	1044	1045	1061
40.0	790	844	945	1019	1080
45.0	683	767	859	1017	1051
50.0	567	669	812	922	912
55.0	445	556	747	791	782
60.0	333	444	647	704	730
65.0	236	351	557	643	677
70.0	161	266	469	559	574
75.0	106	196	379	455	459
80.0	67	140	297	366	371
85.0	37	98	229	284	296
90.0	12	68	169	218	230
95.0	11	47	123	165	174
100.0	10	30	87	121	127
105.0	9	15	60	86	91
110.0	8	7	36	58	63
115.0	6	6	19	36	41
120.0	5	5	5	21	26
125.0	4	4	3	8	13
130.0	4	4	3	3	3
135.0	3	3	3	2	2
140.0	3	3	2	2	2
145.0	3	3	2	2	2
150.0	3	3	3	2	2
155.0	3	3	3	2	2
160.0	3	3	3	2	2
165.0	4	3	3	2	2
170.0	4	3	3	2	2
175.0	4	3	3	2	2
180.0	3	3	3	3	3

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ZONAL LUMEN SUMMARY

0- 5	29.
5- 10	85.
10- 15	136.
15- 20	184.
20- 25	232.
25- 30	274.
30- 35	302.
35- 40	321.
40- 45	336.
45- 50	337.
50- 55	318.
55- 60	290.
60- 65	263.
65- 70	232.
70- 75	194.
75- 80	155.
80- 85	122.
85- 90	92.
90- 95	68.
95-100	50.
100-105	34.
105-110	22.
110-115	14.
115-120	8.
120-125	4.
125-130	2.
130-135	1.
135-140	1.
140-145	1.
145-150	1.
150-155	1.
155-160	1.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	29
5- 10	85
10- 15	136
15- 20	184
20- 25	232
25- 30	274
30- 35	302
35- 40	321
40- 45	336
45- 50	337
50- 55	318
55- 60	290
60- 65	263
65- 70	232
70- 75	194
75- 80	155
80- 85	122
85- 90	92
90- 95	68
95-100	50
100-105	34
105-110	22
110-115	14
115-120	8
120-125	4
125-130	2
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	113
0- 20	434
0- 30	940
0- 40	1563
0- 50	2236
0- 60	2843
0- 70	3339
0- 80	3688
0- 90	3902
0-100	4020
0-110	4077
0-120	4099
0-130	4104
0-140	4106
0-150	4108
0-160	4109
0-170	4110
0-180	4110

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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	87	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	35	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

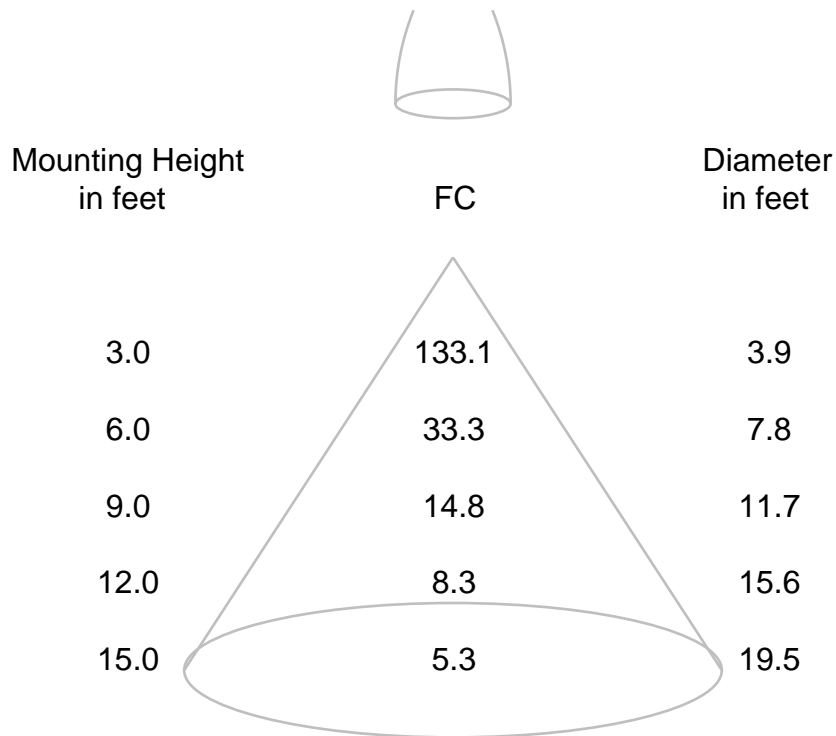
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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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.