

REPORT NUMBER: SCALED FROM RAB01134

ISSUE DATE: 09/09/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: SHARK4-36YNW/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 = 36.01 AT 480.0 VOLTS

LED DRIVERS: RD-LT40-A0700-60PF

\*(SEE PAGE 2 FOR MORE INFORMATION)\*

PAGE: 1 OF 8

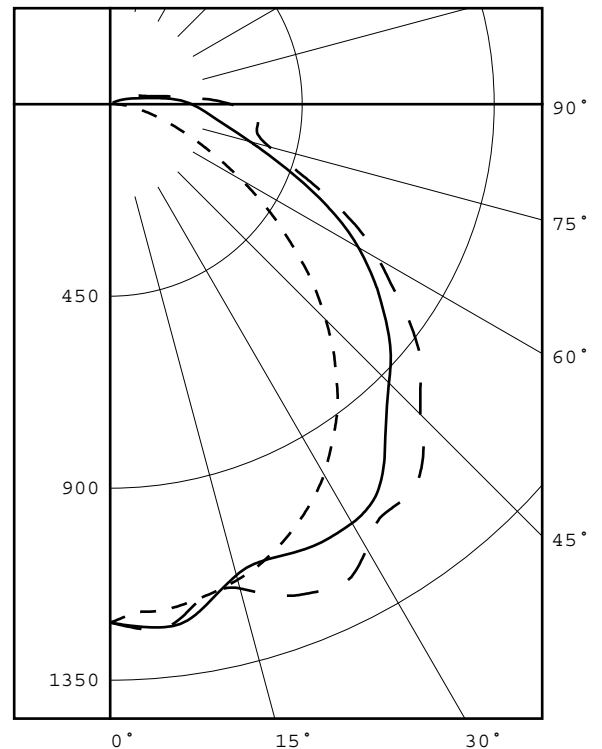
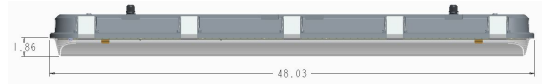
DATE SAMPLE TESTED: 09/09/15

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1215	1215	1215	1215	1215
5	1193	1207	1232	1240	1239
15	1154	1170	1143	1160	1175
25	1067	1041	1140	1223	1249
35	921	946	1099	1121	1154
45	715	811	925	1025	1028
55	475	592	768	843	842
65	254	374	559	602	608
75	113	197	340	380	387
85	39	98	228	315	346
90	16	70	194	264	284
95	13	50	142	178	180
105	9	15	52	74	77
115	6	6	19	37	42
125	4	4	5	10	15
135	3	4	4	4	5
145	3	3	3	4	4
155	3	3	3	3	3
165	3	3	3	2	3
175	4	3	3	2	2
180	3	3	3	3	3

### FLUX

116
330
526
659
701
638
486
315
224
129
51
22
7
3
2
1
1
0



LEGEND:

0-deg: - - - - -  
45-deg: \_\_\_\_\_  
90-deg: - - - - -

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	972	23.1
0- 40	1631	38.7
0- 60	2969	70.5
0- 90	3994	94.9
90-120	201	4.8
90-130	208	4.9
90-150	213	5.1
90-180	216	5.1
0-180	4210	100.0

TOTAL INPUT WATTS = 36.01

EFFICACY = 116.9 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.5

Checked X.CAO  
Approved D.WANG-MUNSON

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 8  
DATE SAMPLE TESTED: 09/09/15

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

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 3 OF 8  
DATE SAMPLE TESTED: 09/09/15

PLANE : 0-DEG 90-DEG  
BEAM ANGLE (50%) : 97.8 X 128.7 DEGREES  
FIELD ANGLE (10%) : 147.9 X 197.3 DEGREES

REPORT NUMBER: SCALED FROM RAB01134  
 ISSUE DATE: 09/09/15  
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 8  
 DATE SAMPLE TESTED: 09/09/15

### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1215	1215	1215	1215	1215
5.0	1193	1207	1232	1240	1239
10.0	1178	1202	1207	1191	1184
15.0	1154	1170	1143	1160	1175
20.0	1118	1108	1131	1202	1226
25.0	1067	1041	1140	1223	1249
30.0	1002	993	1135	1205	1203
35.0	921	946	1099	1121	1154
40.0	823	888	1004	1100	1131
45.0	715	811	925	1025	1028
50.0	598	710	854	934	952
55.0	475	592	768	843	842
60.0	357	474	672	716	727
65.0	254	374	559	602	608
70.0	173	277	438	478	473
75.0	113	197	340	380	387
80.0	71	138	271	328	349
85.0	39	98	228	315	346
90.0	16	70	194	264	284
95.0	13	50	142	178	180
100.0	10	29	85	106	107
105.0	9	15	52	74	77
110.0	7	8	33	54	60
115.0	6	6	19	37	42
120.0	5	5	7	23	27
125.0	4	4	5	10	15
130.0	4	4	5	5	6
135.0	3	4	4	4	5
140.0	3	3	4	4	4
145.0	3	3	3	4	4
150.0	3	3	3	3	3
155.0	3	3	3	3	3
160.0	3	3	3	3	3
165.0	3	3	3	2	3
170.0	4	3	3	2	3
175.0	4	3	3	2	2
180.0	3	3	3	3	3

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 5 OF 8  
DATE SAMPLE TESTED: 09/09/15

## ZONAL LUMEN SUMMARY

0- 5	29.
5- 10	87.
10- 15	139.
15- 20	190.
20- 25	241.
25- 30	285.
30- 35	318.
35- 40	341.
40- 45	352.
45- 50	349.
50- 55	334.
55- 60	304.
60- 65	266.
65- 70	220.
70- 75	174.
75- 80	140.
80- 85	121.
85- 90	104.
90- 95	79.
95-100	50.
100-105	30.
105-110	20.
110-115	13.
115-120	8.
120-125	5.
125-130	2.
130-135	2.
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.

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 8  
DATE SAMPLE TESTED: 09/09/15

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	29
5- 10	87
10- 15	139
15- 20	190
20- 25	241
25- 30	285
30- 35	318
35- 40	341
40- 45	352
45- 50	349
50- 55	334
55- 60	304
60- 65	266
65- 70	220
70- 75	174
75- 80	140
80- 85	121
85- 90	104
90- 95	79
95-100	50
100-105	30
105-110	20
110-115	13
115-120	8
120-125	5
125-130	2
130-135	2
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	116
0- 20	446
0- 30	972
0- 40	1631
0- 50	2332
0- 60	2969
0- 70	3455
0- 80	3769
0- 90	3994
0-100	4123
0-110	4173
0-120	4195
0-130	4202
0-140	4205
0-150	4207
0-160	4209
0-170	4209
0-180	4210

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15

PAGE: 7 OF 8  
DATE SAMPLE TESTED: 09/09/15

PREPARED FOR: RAB LIGHTING INC.

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	56	51	47	44
5	73	60	50	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

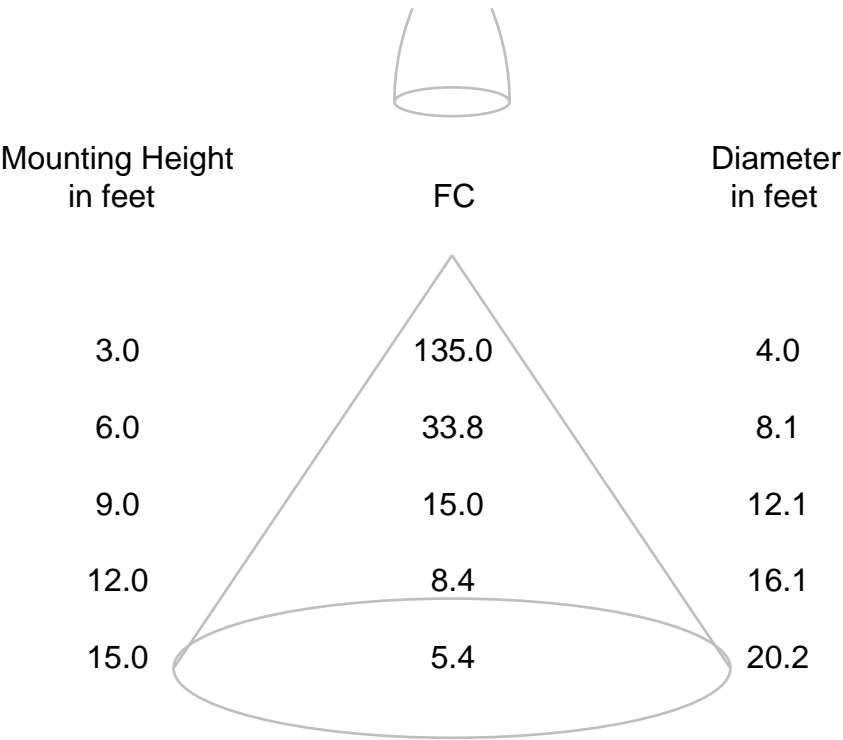
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE  
BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES  
ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

REPORT NUMBER: SCALED FROM RAB01134  
ISSUE DATE: 09/09/15  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 8 OF 8  
DATE SAMPLE TESTED: 09/09/15

# 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.