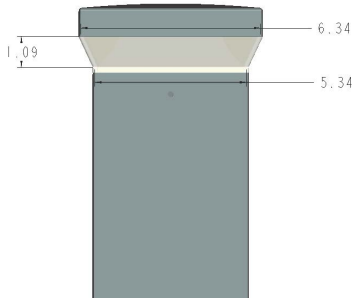
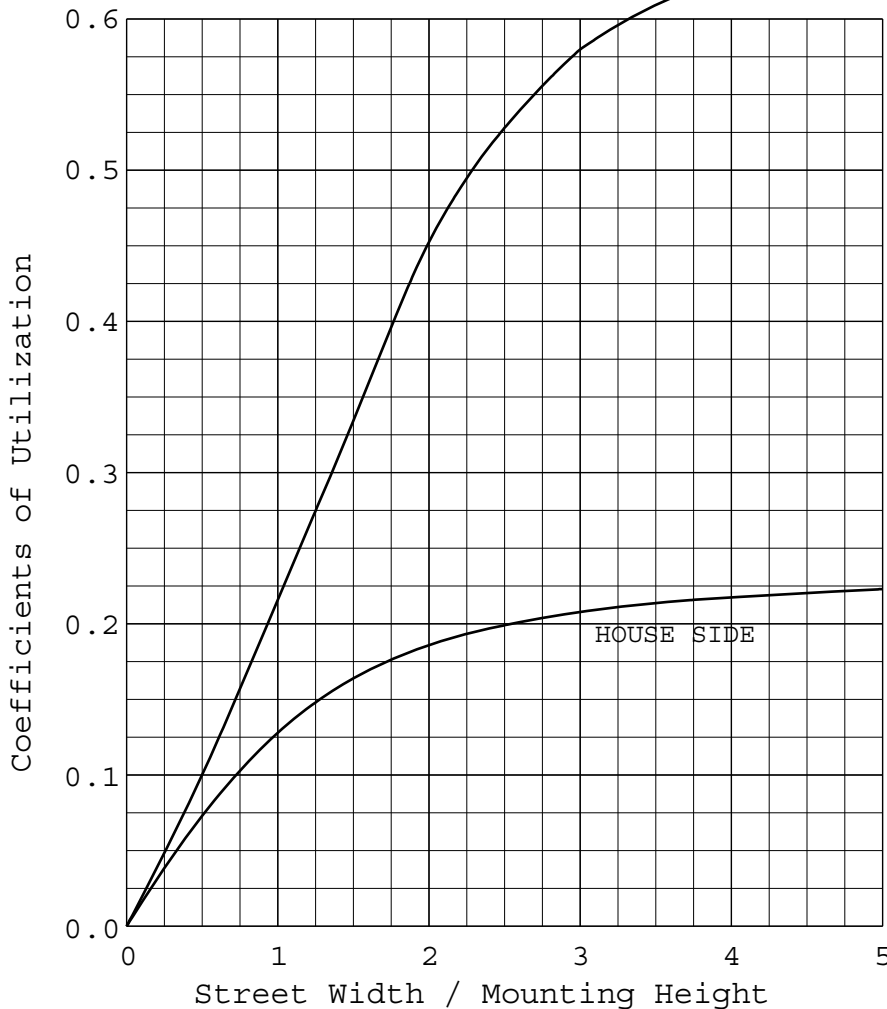


### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



STREET SIDE



REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17 PAGE: 1 OF 11  
 PREPARED FOR: RAB LIGHTING INC. RC  
 LIGHTING  
 CATALOG NUMBER: BLED12, BLED12/D10 (42"  
 SQUARE BOLLARD W/LED @ 90-DEGREES)  
 LUMINAIRE: EXTRUDED BROWN PAINTED  
 SQUARE METAL LOWER HOUSING, CAST  
 METAL TOP, CAST FINNED METAL HEAT  
 SINK WITH WHITE PAINTED INTERIOR,  
 MOLDED SPECULAR FINISHED PLASTIC  
 REFLECTOR WITH WHITE CORNER DIVIDERS  
 CREATING 4 OPTICAL COMPARTMENTS, 2  
 OPTICAL COMPARTMENT CONTAINS 1 WHITE  
 CIRCUIT BOARD WITH 5 LEDS, FROSTED  
 PLASTIC LENS, CAST BROWN PAINTED  
 METAL BOTTOM.

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

	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	902.	69.4
DOWNWARD HOUSE SIDE	306.	23.5
DOWNWARD TOTAL	1207.	92.9
UPWARD STREET SIDE	60.	4.6
UPWARD HOUSE SIDE	32.	2.4
UPWARD TOTAL	92.	7.1
TOTAL FLUX	1299.	100.0

TOTAL INPUT WATTS = 12

EFFICACY = 108.3 Lm/W

Checked X.CAO

Approved D.WANG-MUNSON

ALL CANDELA AND LUMENS 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: PRORATED FROM RAB03692  
ISSUE DATE: 08/29/17  
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 2 OF 11

## ADDITIONAL INFORMATION

LAMP: TEN LIGHT EMITTING DIODES (LEDS) .  
NOTE: THIS REPORT WAS PRORATED FROM RAB03692 WHICH WAS BLED12Y,  
BLED12Y/D10 . ACTUAL PERFORMANCE MAY VARY.  
TOTAL INPUT WATTS = 12.0 W AT 277.0 VAC.  
LED DRIVER: RDD-15W-032SE-A0350  
TEST PROCEDURE: IESNA LM-79-08  
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

REPORT NUMBER: PRORATED FROM RAB03692

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PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 3 OF 11

BUG Rating:

Zonal Summary

Lumens

% of Fixture

B1 U3 G1

Zone Ratings

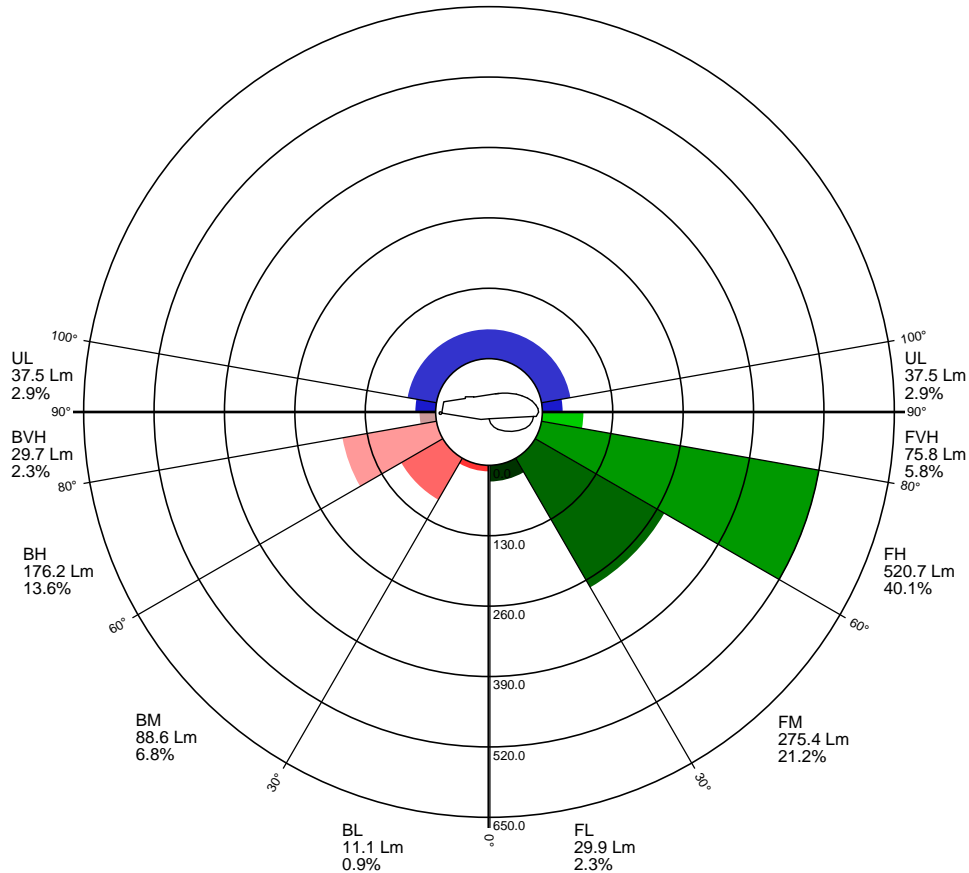
B U G

Forward		902	69.4			
FL	(0° - 30°)	29.9	2.3			
FM	(30° - 60°)	275.4	21.2			
FH	(60° - 80°)	520.7	40.1			G0
FVH	(80° - 90°)	75.8	5.8			G1
Backward		306	23.5			
BL	(0° - 30°)	11.1	0.9	B0		
BM	(30° - 60°)	88.6	6.8	B0		
BH	(60° - 80°)	176.2	13.6	B1		G1
BVH	(80° - 90°)	29.7	2.3			G1
Upward		92	7.1			
UL	(90° - 100°)	37.5	2.9		U2	
UH	(100° - 180°)	54.2	4.2		U3	
Trapped Light		0	0.0			
Total Flux		1299	100.0			

### Zonal Lumen Summary

(Linear scale)

UH  
54.2 Lm  
4.2%

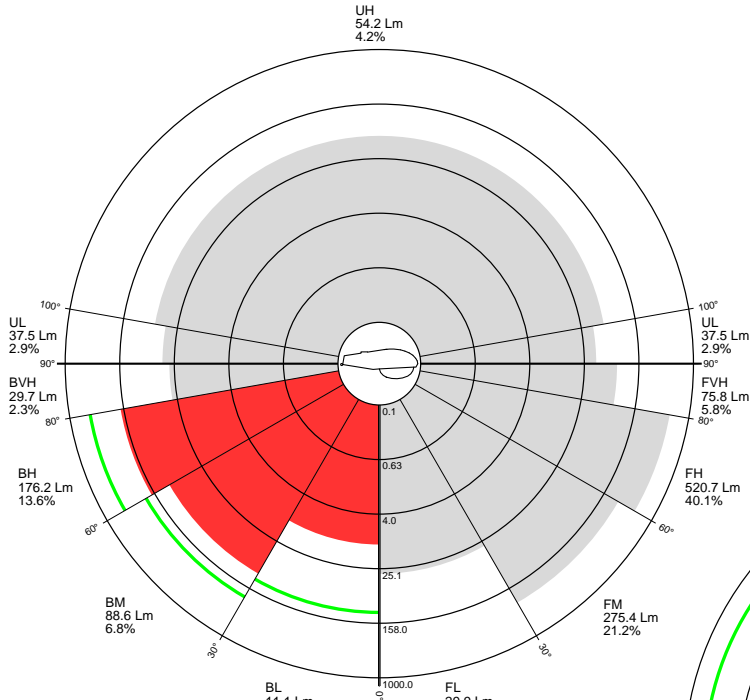


REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 4 OF 11

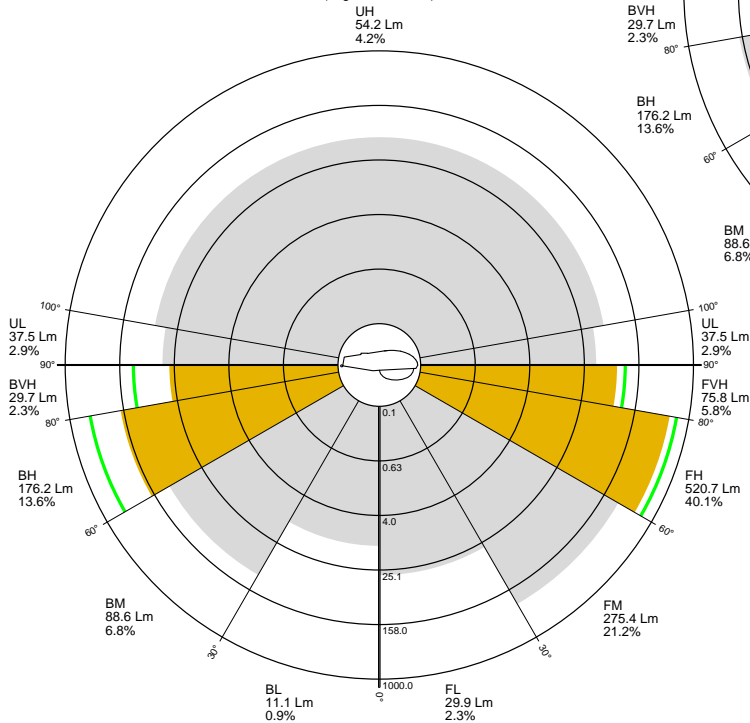
### Backlight Rating Details

(Logarithmic scale)



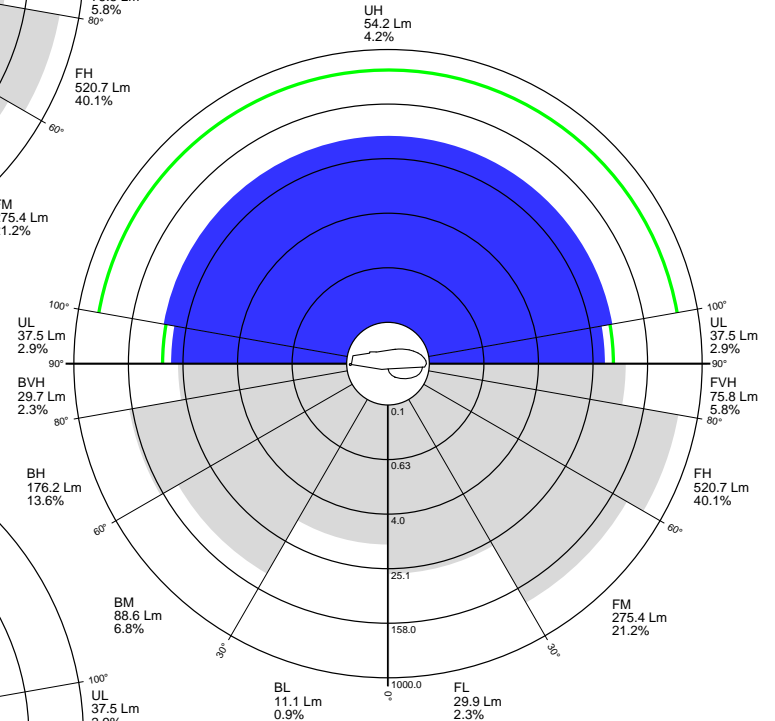
### Glare Rating Details

(Logarithmic scale)



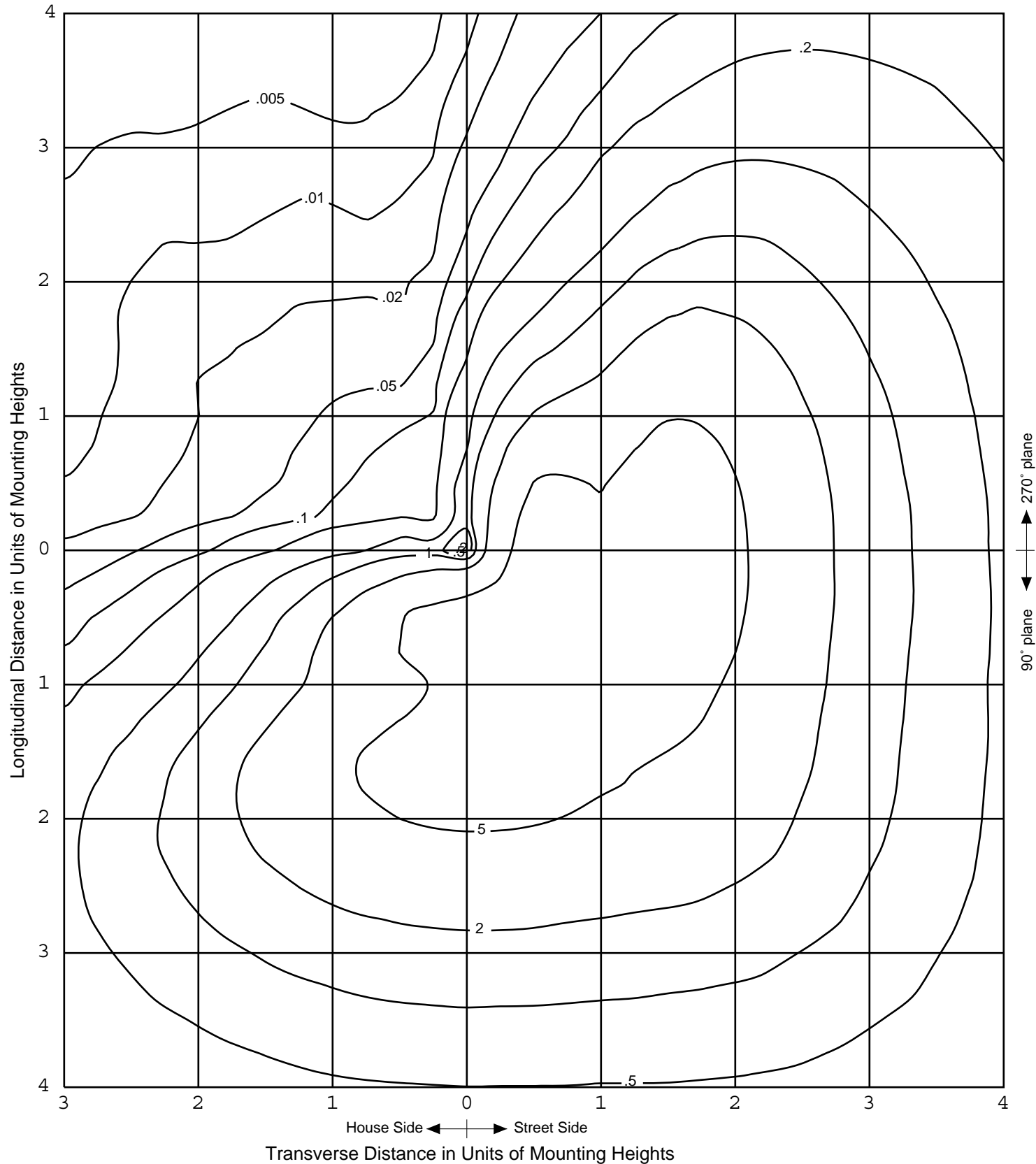
### Uplight Rating Details

(Logarithmic scale)



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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION  
 Values based on 3.5 foot mounting height.



REPORT NUMBER: PRORATED FROM RAB03692  
ISSUE DATE: 08/29/17 PAGE: 6 OF 11  
PREPARED FOR: RAB LIGHTING INC. RC  
LIGHTING

LUMINAIRE: EXTRUDED BROWN PAINTED  
SQUARE METAL LOWER HOUSING, CAST  
METAL TOP, CAST FINNED METAL HEAT  
SINK WITH WHITE PAINTED INTERIOR,  
MOLDED SPECULAR FINISHED PLASTIC  
REFLECTOR WITH WHITE CORNER DIVIDERS  
CREATING 4 OPTICAL COMPARTMENTS, 2  
OPTICAL COMPARTMENT CONTAINS 1 WHITE  
CIRCUIT BOARD WITH 5 LEDS, FROSTED  
PLASTIC LENS, CAST BROWN PAINTED  
METAL BOTTOM.

**CANDELA**

**HOUSE SIDE**

**STREET SIDE**

**VERTICAL PLANE THROUGH MAXIMUM CANDELA**

45.0 (Degrees Horizontal) = 988.0

REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 7 OF 11

### CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE								
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0 85.0
	180.0	2.	2.	2.	2.	2.	2.	2.	2.	2.
	175.0	0.	0.	1.	1.	2.	2.	4.	5.	6.
	165.0	0.	0.	0.	1.	1.	2.	2.	4.	5.
	155.0	0.	1.	1.	1.	1.	1.	2.	2.	4.
	145.0	4.	4.	4.	4.	2.	2.	4.	5.	6.
	135.0	8.	8.	8.	7.	7.	7.	7.	8.	11.
	125.0	16.	16.	15.	15.	15.	15.	16.	16.	18.
	115.0	22.	22.	23.	25.	27.	27.	27.	26.	26.
	105.0	29.	29.	32.	38.	40.	41.	41.	39.	35.
	95.0	41.	42.	53.	63.	70.	73.	71.	66.	56.
	90.0	54.	57.	76.	97.	111.	116.	113.	102.	83.
	87.5	67.	74.	98.	130.	151.	159.	152.	135.	107.
	85.0	90.	97.	127.	176.	219.	238.	219.	184.	137.
V	82.5	127.	136.	172.	248.	325.	366.	331.	263.	189.
E	80.0	191.	204.	245.	346.	457.	545.	482.	376.	274.
R	77.5	286.	305.	348.	466.	626.	715.	660.	515.	397.
T	75.0	423.	437.	483.	599.	748.	859.	797.	641.	527.
I	72.5	539.	554.	585.	667.	827.	966.	886.	725.	633.
C	70.0<<	604.	616.	647.	736.	886.	988.	917.	783.	710.
A	67.5	681.	699.	735.	802.	887.	931.	883.	810.	770.
L	65.0	755.	770.	798.	819.	826.	803.	786.	785.	790.
	62.5	786.	798.	805.	781.	720.	649.	663.	717.	754.
A	60.0	756.	762.	754.	690.	593.	507.	540.	625.	672.
N	57.5	668.	669.	650.	572.	472.	408.	436.	511.	557.
G	55.0	543.	540.	520.	448.	382.	343.	362.	410.	436.
L	52.5	417.	416.	400.	355.	325.	309.	315.	333.	340.
E	50.0	309.	311.	308.	297.	294.	292.	289.	285.	273.
	47.5	243.	247.	255.	264.	277.	282.	275.	257.	236.
	45.0	209.	216.	229.	246.	265.	273.	265.	240.	216.
	42.5	193.	200.	214.	233.	255.	264.	253.	227.	204.
	40.0	184.	193.	205.	222.	244.	251.	239.	216.	196.
	37.5	180.	188.	198.	213.	230.	236.	224.	204.	189.
	35.0	175.	183.	191.	200.	213.	218.	206.	191.	180.
	30.0	158.	165.	169.	170.	169.	168.	164.	159.	158.
	25.0	125.	131.	131.	127.	122.	116.	118.	122.	125.
	20.0	82.	88.	90.	87.	83.	81.	83.	86.	88.
	15.0	52.	56.	62.	61.	61.	61.	61.	61.	63.
	10.0	32.	34.	40.	42.	46.	47.	46.	43.	41.
	5.0	16.	14.	14.	12.	12.	12.	13.	14.	16.
	0.0	1.	1.	1.	1.	1.	1.	1.	1.	1.

||

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 8 OF 11

### CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE									
		90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0
	180.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	175.0	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.
	165.0	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.
	155.0	4.	5.	4.	4.	4.	4.	4.	4.	4.	4.
	145.0	6.	6.	6.	6.	5.	4.	4.	4.	4.	4.
	135.0	12.	12.	11.	9.	8.	6.	5.	4.	4.	4.
	125.0	19.	19.	19.	16.	14.	12.	8.	6.	5.	4.
	115.0	26.	26.	26.	25.	21.	19.	14.	9.	6.	5.
	105.0	34.	34.	33.	32.	29.	26.	21.	15.	8.	5.
	95.0	47.	47.	47.	47.	45.	43.	39.	29.	18.	6.
	90.0	62.	62.	64.	67.	69.	67.	62.	47.	27.	8.
	87.5	79.	79.	84.	87.	90.	91.	87.	62.	33.	9.
	85.0	105.	103.	111.	118.	131.	134.	123.	81.	38.	11.
V	82.5	148.	145.	161.	177.	199.	199.	171.	101.	43.	13.
E	80.0	225.	222.	245.	270.	298.	281.	220.	118.	46.	14.
R	77.5	343.	339.	366.	390.	407.	363.	265.	128.	47.	15.
T	75.0	478.	473.	492.	500.	496.	429.	292.	129.	47.	15.
I	72.5	593.	587.	597.	592.	570.	472.	292.	123.	47.	18.
C	70.0<<	673.	668.	675.	662.	615.	475.	268.	113.	47.	19.
A	67.5	736.	734.	734.	704.	614.	436.	231.	103.	47.	20.
L	65.0	769.	765.	749.	693.	561.	373.	192.	95.	48.	21.
	62.5	749.	745.	709.	628.	472.	299.	162.	91.	48.	22.
A	60.0	677.	674.	624.	527.	377.	236.	142.	89.	49.	23.
N	57.5	567.	564.	507.	416.	287.	192.	130.	87.	49.	23.
G	55.0	442.	437.	389.	313.	225.	166.	124.	84.	48.	23.
L	52.5	336.	331.	291.	240.	189.	152.	120.	83.	47.	25.
E	50.0	258.	252.	227.	200.	171.	145.	116.	80.	46.	23.
	47.5	214.	209.	195.	180.	162.	141.	111.	77.	45.	25.
	45.0	193.	188.	179.	170.	156.	136.	107.	73.	42.	23.
	42.5	184.	178.	171.	163.	150.	130.	101.	68.	39.	23.
	40.0	177.	171.	165.	158.	145.	124.	95.	62.	36.	22.
	37.5	172.	166.	161.	152.	138.	116.	87.	56.	34.	22.
	35.0	165.	159.	154.	145.	130.	107.	79.	52.	33.	21.
	30.0	148.	142.	135.	124.	105.	84.	60.	42.	29.	20.
	25.0	117.	110.	102.	94.	77.	61.	46.	34.	27.	19.
	20.0	80.	74.	69.	62.	52.	45.	36.	30.	27.	19.
	15.0	53.	47.	45.	41.	38.	34.	30.	27.	26.	15.
	10.0	35.	33.	32.	30.	29.	27.	23.	21.	15.	9.
	5.0	22.	22.	18.	15.	12.	9.	7.	6.	5.	4.
	0.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.

CONE OF MAXIMUM CANDELA



REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 9 OF 11

### CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE									
		180.0	185.0	195.0	205.0	215.0	225.0	235.0	245.0	255.0	265.0
	180.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	175.0	6.	6.	5.	4.	4.	2.	2.	1.	1.	0.
	165.0	4.	5.	4.	4.	2.	2.	1.	1.	1.	0.
	155.0	4.	4.	2.	2.	2.	1.	1.	1.	1.	0.
	145.0	4.	4.	2.	2.	2.	1.	1.	1.	1.	1.
	135.0	4.	4.	4.	2.	2.	2.	2.	2.	1.	1.
	125.0	4.	4.	4.	4.	4.	5.	4.	4.	2.	2.
	115.0	5.	5.	5.	5.	6.	6.	6.	5.	4.	2.
	105.0	5.	5.	5.	6.	6.	7.	6.	5.	4.	2.
	95.0	5.	5.	5.	6.	7.	6.	6.	5.	4.	2.
	90.0	5.	5.	5.	6.	6.	6.	5.	5.	4.	2.
	87.5	5.	5.	5.	5.	5.	6.	5.	5.	4.	2.
	85.0	5.	5.	5.	5.	5.	5.	5.	4.	4.	2.
V	82.5	6.	5.	5.	5.	5.	5.	5.	5.	4.	2.
E	80.0	6.	4.	5.	5.	5.	5.	5.	4.	4.	2.
R	77.5	7.	5.	5.	5.	5.	5.	5.	4.	4.	2.
T	75.0	8.	4.	4.	4.	4.	5.	4.	4.	2.	2.
I	72.5	9.	5.	4.	4.	4.	5.	4.	4.	2.	4.
C	70.0<<	9.	5.	4.	4.	4.	4.	4.	4.	2.	4.
A	67.5	12.	5.	4.	4.	5.	4.	4.	4.	2.	4.
L	65.0	12.	6.	4.	4.	4.	4.	4.	2.	2.	4.
	62.5	12.	6.	4.	4.	4.	4.	4.	4.	2.	5.
A	60.0	13.	6.	4.	4.	4.	4.	4.	2.	2.	5.
N	57.5	13.	6.	4.	4.	4.	4.	4.	2.	2.	5.
G	55.0	13.	6.	4.	4.	4.	4.	4.	2.	2.	6.
L	52.5	13.	6.	4.	4.	4.	4.	4.	2.	4.	6.
E	50.0	13.	6.	4.	4.	4.	4.	4.	4.	2.	6.
	47.5	13.	7.	5.	4.	4.	4.	4.	4.	4.	6.
	45.0	13.	7.	4.	4.	4.	4.	4.	4.	4.	6.
	42.5	13.	7.	4.	4.	4.	4.	4.	4.	4.	6.
	40.0	13.	7.	4.	4.	4.	4.	4.	2.	4.	6.
	37.5	12.	6.	4.	4.	4.	4.	2.	2.	2.	6.
	35.0	13.	7.	4.	4.	4.	4.	2.	2.	4.	6.
	30.0	12.	7.	4.	4.	4.	4.	4.	2.	4.	6.
	25.0	12.	6.	4.	4.	4.	2.	2.	2.	2.	6.
	20.0	12.	6.	4.	4.	4.	2.	2.	4.	4.	6.
	15.0	9.	6.	4.	4.	2.	2.	2.	2.	2.	5.
	10.0	6.	5.	4.	2.	2.	2.	2.	2.	2.	4.
	5.0	4.	2.	2.	1.	1.	1.	1.	1.	1.	1.
	0.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB03692  
 ISSUE DATE: 08/29/17  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 10 OF 11

### CANDELA TABULATION

STREET SIDE		LATERAL ANGLE										
		270.0	275.0	285.0	295.0	305.0	315.0	325.0	335.0	345.0	355.0	360.0
	180.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	1.	1.	0.	0.	0.	0.	1.	2.	2.	4.	4
	135.0	1.	1.	1.	1.	1.	4.	5.	6.	7.	8.	8.
	125.0	2.	2.	1.	2.	6.	8.	11.	14.	15.	16.	16.
	115.0	2.	2.	2.	6.	11.	15.	19.	21.	22.	22.	22.
	105.0	2.	2.	6.	13.	18.	22.	26.	28.	29.	29.	29.
	95.0	4.	5.	14.	26.	33.	39.	40.	41.	41.	41.	41.
	90.0	2.	6.	22.	41.	53.	59.	61.	59.	55.	54.	54.
	87.5	2.	8.	28.	55.	73.	80.	77.	77.	73.	70.	67.
	85.0	4.	9.	35.	73.	104.	116.	110.	104.	95.	91.	90.
V	82.5	5.	12.	42.	95.	148.	173.	165.	155.	136.	129.	127.
E	80.0	5.	13.	47.	117.	197.	255.	246.	232.	205.	195.	191.
R	77.5	6.	14.	50.	134.	251.	341.	362.	340.	306.	293.	286.
T	75.0	7.	15.	50.	142.	298.	418.	456.	461.	438.	425.	423.
I	72.5	8.	16.	49.	139.	318.	484.	537.	541.	538.	541.	539.
C	70.0<<	9.	18.	49.	129.	309.	512.	613.	625.	608.	607.	604.
A	67.5	11.	20.	49.	117.	278.	496.	649.	697.	693.	686.	681.
L	65.0	11.	20.	49.	105.	233.	437.	632.	725.	752.	752.	755.
	62.5	12.	22.	49.	98.	192.	360.	561.	694.	763.	777.	786.
A	60.0	13.	23.	49.	94.	163.	282.	461.	613.	714.	742.	756.
N	57.5	13.	23.	50.	91.	144.	223.	360.	496.	611.	648.	668.
G	55.0	13.	23.	49.	89.	134.	185.	273.	380.	479.	520.	543.
L	52.5	13.	23.	48.	87.	127.	165.	217.	285.	360.	397.	417.
E	50.0	13.	23.	47.	83.	122.	155.	186.	229.	270.	294.	309.
	47.5	13.	23.	45.	80.	118.	148.	171.	193.	217.	231.	243.
	45.0	13.	22.	42.	76.	114.	142.	163.	178.	191.	202.	209.
	42.5	13.	22.	40.	70.	108.	137.	158.	171.	179.	186.	193.
	40.0	13.	21.	36.	64.	100.	130.	152.	165.	172.	178.	184.
	37.5	12.	20.	34.	57.	91.	123.	147.	159.	168.	172.	180.
	35.0	13.	20.	32.	52.	82.	114.	138.	152.	162.	168.	175.
	30.0	12.	19.	27.	41.	62.	88.	114.	132.	144.	151.	158.
	25.0	12.	18.	25.	32.	45.	60.	81.	97.	110.	116.	125.
	20.0	12.	18.	22.	27.	33.	41.	52.	60.	69.	74.	82.
	15.0	11.	14.	21.	23.	26.	29.	34.	38.	41.	45.	52.
	10.0	6.	7.	12.	15.	19.	22.	26.	27.	28.	29.	32.
	5.0	1.	1.	2.	4.	5.	5.	7.	8.	12.	13.	16.
	0.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	3
15- 20	6
20- 25	11
25- 30	19
30- 35	27
35- 40	35
40- 45	43
45- 50	54
50- 55	79
55- 60	126
60- 65	179
65- 70	202
70- 75	185
75- 80	131
80- 85	70
85- 90	36
90- 95	22
95-100	16
100-105	12
105-110	10
110-115	8
115-120	7
120-125	5
125-130	4
130-135	3
135-140	2
140-145	1
145-150	1
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	1
0- 20	11
0- 30	41
0- 40	103
0- 50	200
0- 60	405
0- 70	786
0- 80	1102
0- 90	1207
0-100	1245
0-110	1267
0-120	1282
0-130	1291
0-140	1296
0-150	1297
0-160	1298
0-170	1299
0-180	1299