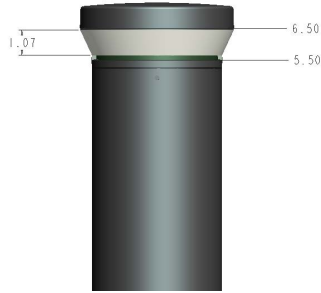


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 3.5 foot mounting height.



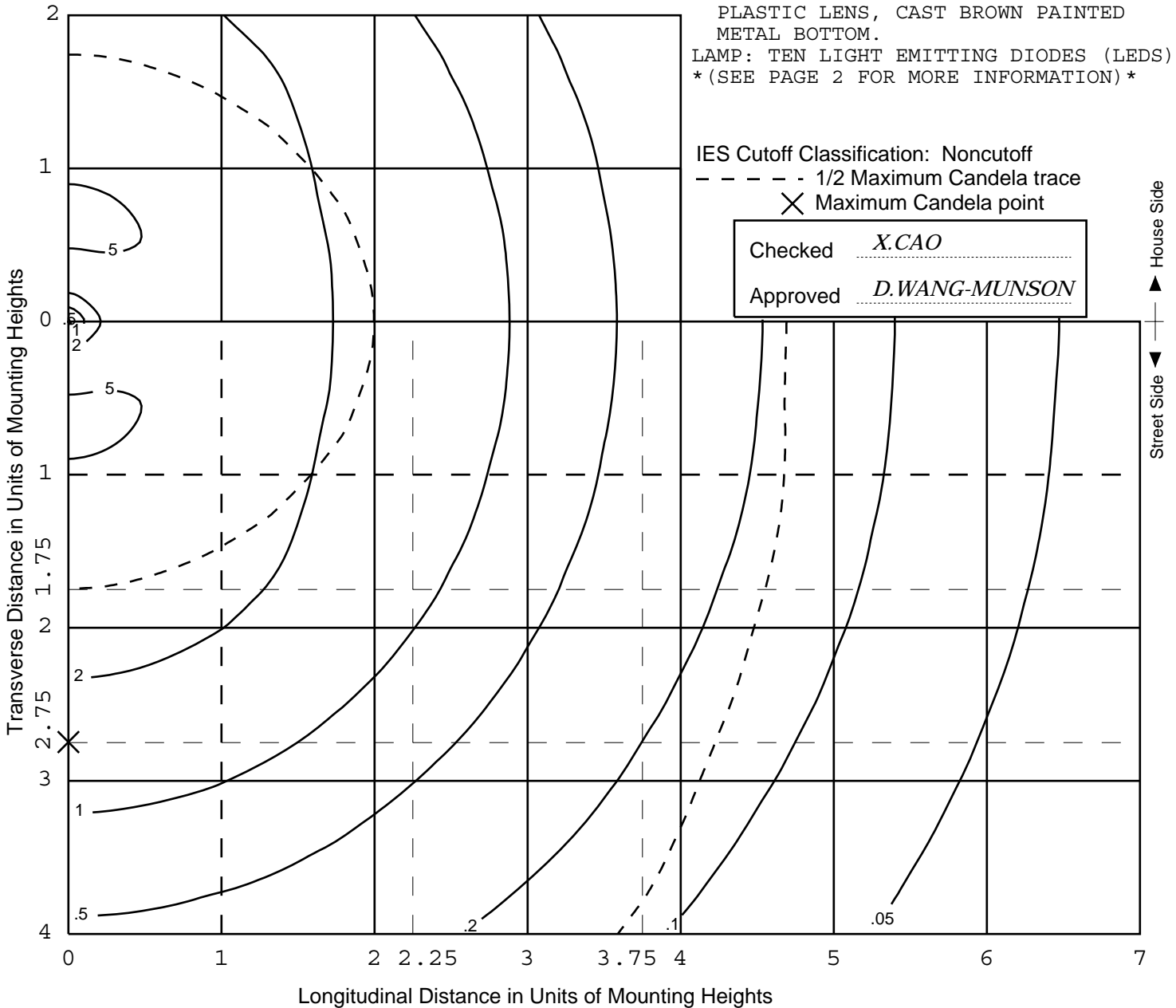
REPORT NUMBER: PRORATED FROM RAB03690
 ISSUE DATE: 08/30/17 PAGE: 1 OF 9
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

CATALOG NUMBER: BLED12-180,
 BLED12-180/D10, BDLED12-180,
 BDLED12-180/D10 (42" ROUND BOLLARD)
 LUMINAIRE: EXTRUDED BROWN PAINTED
 CYLINDRICAL METAL LOWER HOUSING, CAST
 METAL TOP, CAST FINNED METAL HEAT
 SINK WITH WHITE PAINTED INTERIOR,
 MOLDED SPECULAR FINISHED PLASTIC
 REFLECTOR, 2 WHITE CIRCUIT BOARDS
 EACH WITH 3 LEDS, 2 WHITE CIRCUIT
 BOARDS EACH WITH 2 LEDS, FROSTED
 PLASTIC LENS, CAST BROWN PAINTED
 METAL BOTTOM.

LAMP: TEN LIGHT EMITTING DIODES (LEDs).
 (SEE PAGE 2 FOR MORE INFORMATION)

IES Cutoff Classification: Noncutoff

--- 1/2 Maximum Candela trace
 X Maximum Candela point



REPORT NUMBER: PRORATED FROM RAB03690
ISSUE DATE: 08/30/17
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 2 OF 9

ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB03690 WHICH WAS BLEDR12Y-180, BLEDR12Y-180/D10, BDLEDR12Y-180, BDLEDR12Y-180/D10. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 12.1 W AT 277.0 VAC.

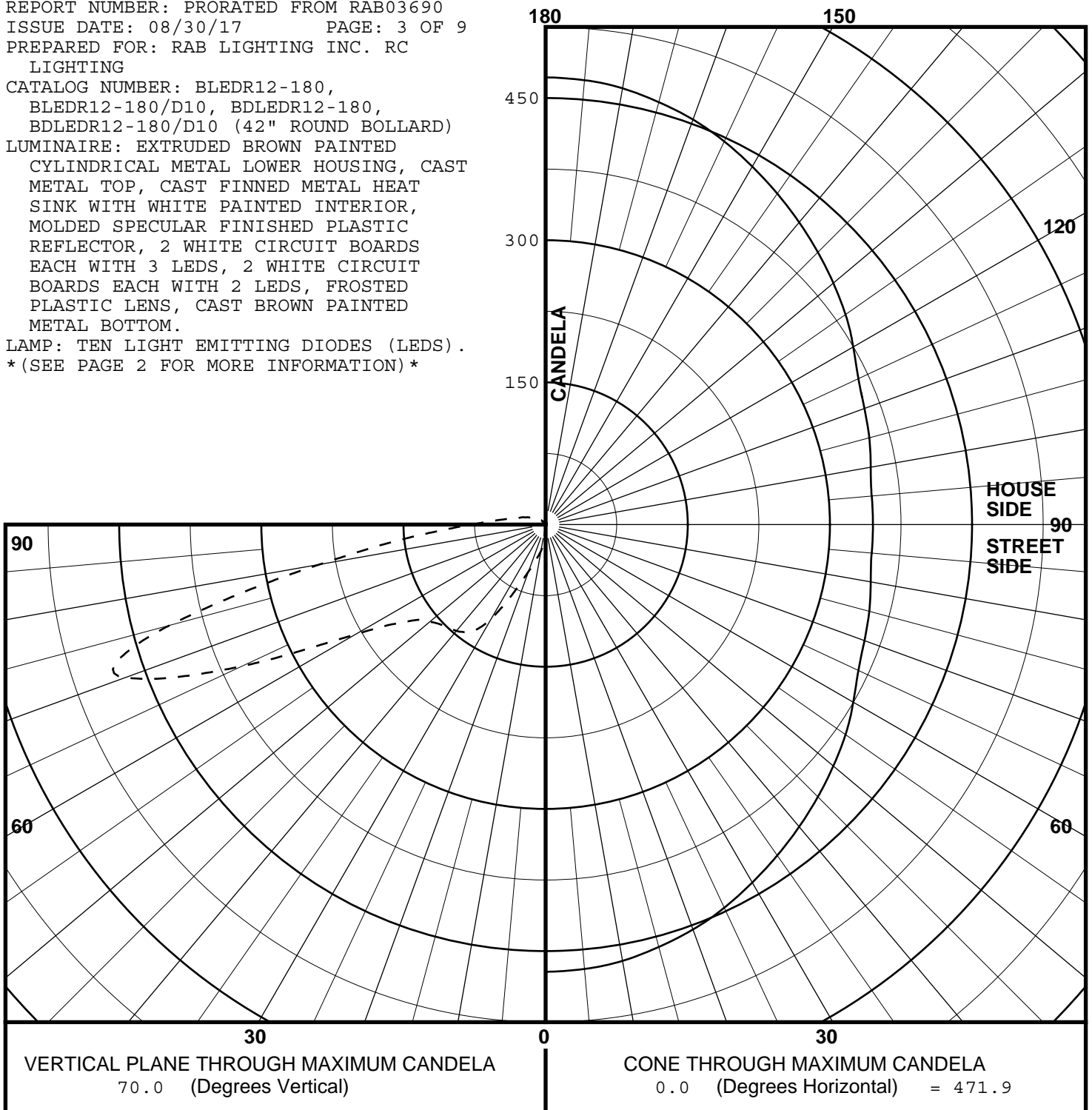
LED DRIVER: RDD-15W-032SE-A0350

TEST PROCEDURE: IESNA LM-79-08

LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

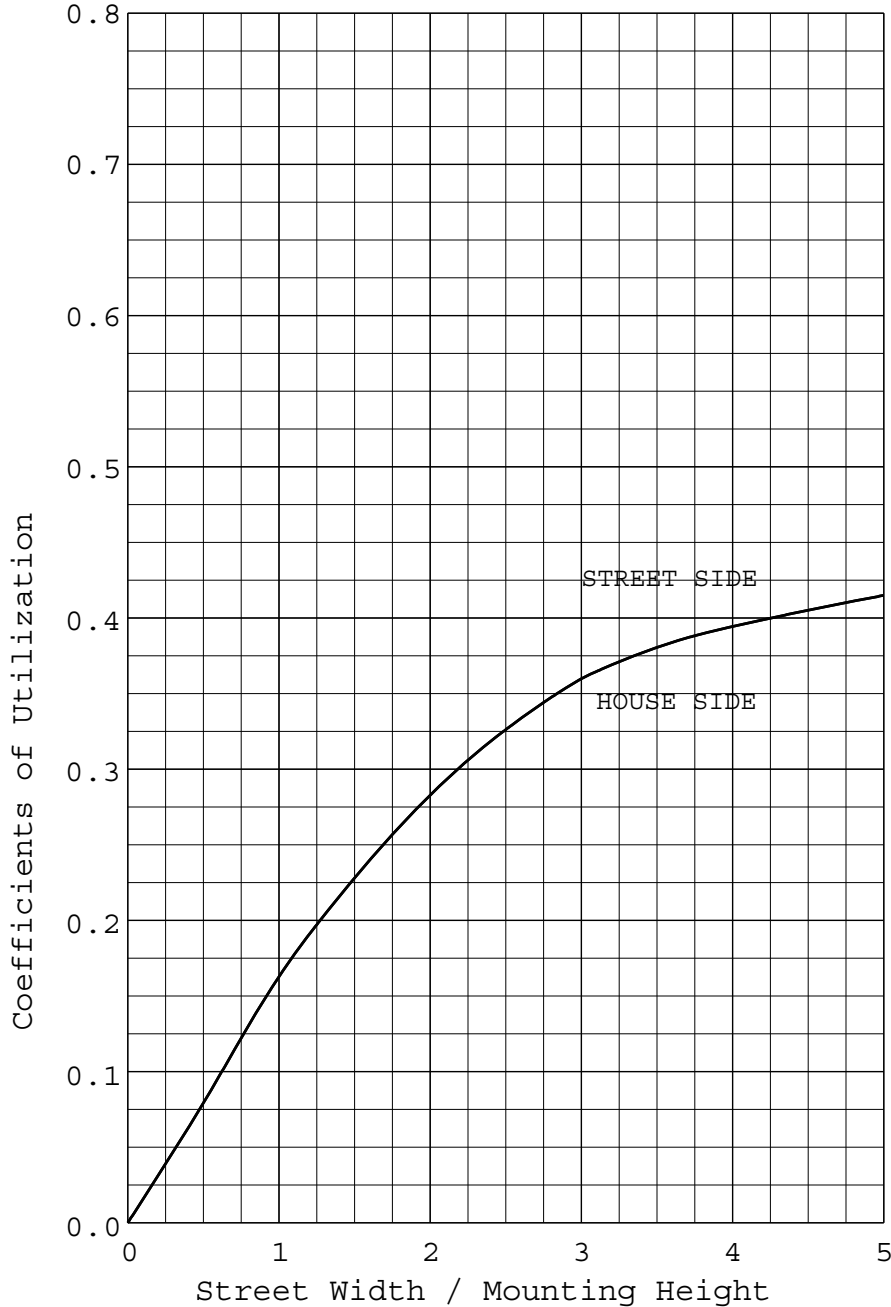
REPORT NUMBER: PRORATED FROM RAB03690
 ISSUE DATE: 08/30/17 PAGE: 3 OF 9
 PREPARED FOR: RAB LIGHTING INC. RC
 LIGHTING
 CATALOG NUMBER: BLEDR12-180,
 BLEDR12-180/D10, BDLEDR12-180,
 BDLEDR12-180/D10 (42" ROUND BOLLARD)
 LUMINAIRE: EXTRUDED BROWN PAINTED
 CYLINDRICAL METAL LOWER HOUSING, CAST
 METAL TOP, CAST FINNED METAL HEAT
 SINK WITH WHITE PAINTED INTERIOR,
 MOLDED SPECULAR FINISHED PLASTIC
 REFLECTOR, 2 WHITE CIRCUIT BOARDS
 EACH WITH 3 LEDS, 2 WHITE CIRCUIT
 BOARDS EACH WITH 2 LEDS, FROSTED
 PLASTIC LENS, CAST BROWN PAINTED
 METAL BOTTOM.
 LAMP: TEN LIGHT EMITTING DIODES (LEDs).
 (SEE PAGE 2 FOR MORE INFORMATION)



REPORT NUMBER: PRORATED FROM RAB03690
 ISSUE DATE: 08/30/17
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 4 OF 9

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	596.	45.5
DOWNWARD HOUSE SIDE	596.	45.5
DOWNWARD TOTAL	1191.	91.1
UPWARD STREET SIDE	58.	4.5
UPWARD HOUSE SIDE	58.	4.5
UPWARD TOTAL	117.	8.9
TOTAL FLUX	1308.	100.0
TOTAL INPUT WATTS = 12.1		
EFFICACY = 108.1 Lm/W		

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 RAB03690

ISSUE DATE: 08/30/17

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 5 OF 9

BUG Rating:

Zonal Summary

Lumens

% of Fixture

B1 U3 G1

Zone Ratings

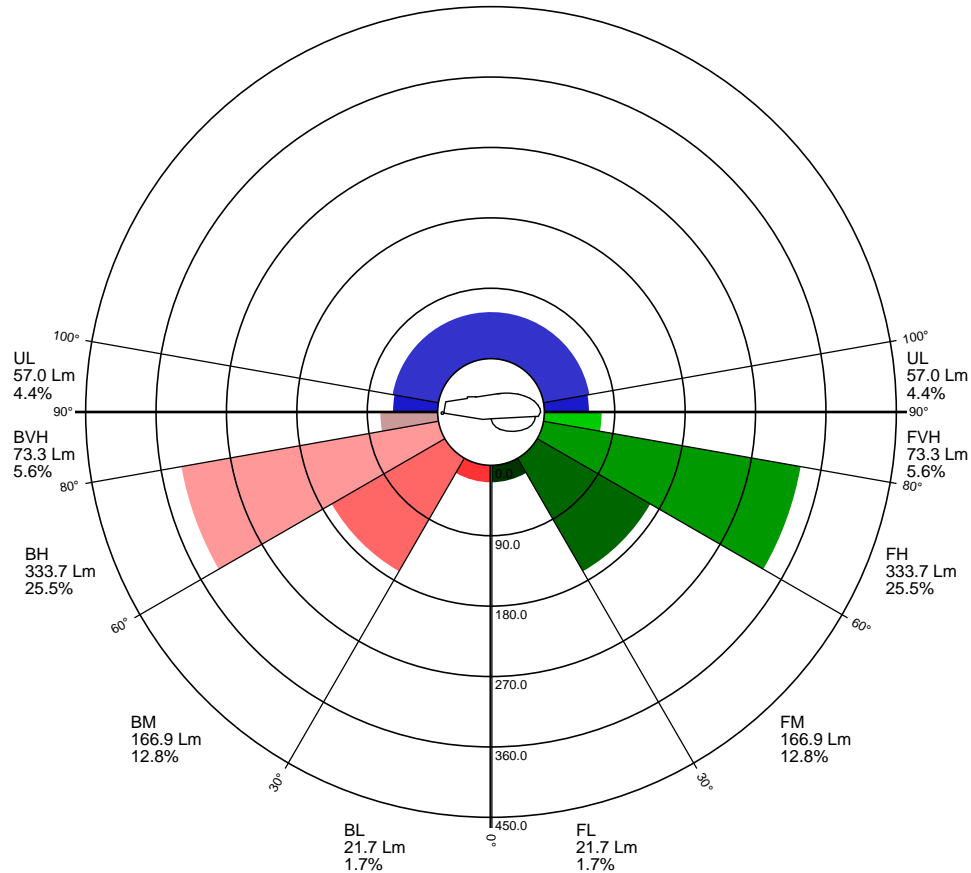
B U G

Forward		596	45.5			
FL	(0° - 30°)	21.7	1.7			
FM	(30° - 60°)	166.9	12.8			
FH	(60° - 80°)	333.7	25.5			G0
FVH	(80° - 90°)	73.3	5.6			G1
Backward		596	45.5			
BL	(0° - 30°)	21.7	1.7	B0		
BM	(30° - 60°)	166.9	12.8	B0		
BH	(60° - 80°)	333.7	25.5	B1		G0
BVH	(80° - 90°)	73.3	5.6			G1
Upward		117	8.9			
UL	(90° - 100°)	57.0	4.4		U3	
UH	(100° - 180°)	59.5	4.6		U3	
Trapped Light		0	0.0			
Total Flux		1308	100.0			

Zonal Lumen Summary

(Linear scale)

UH
59.5 Lm
4.6%

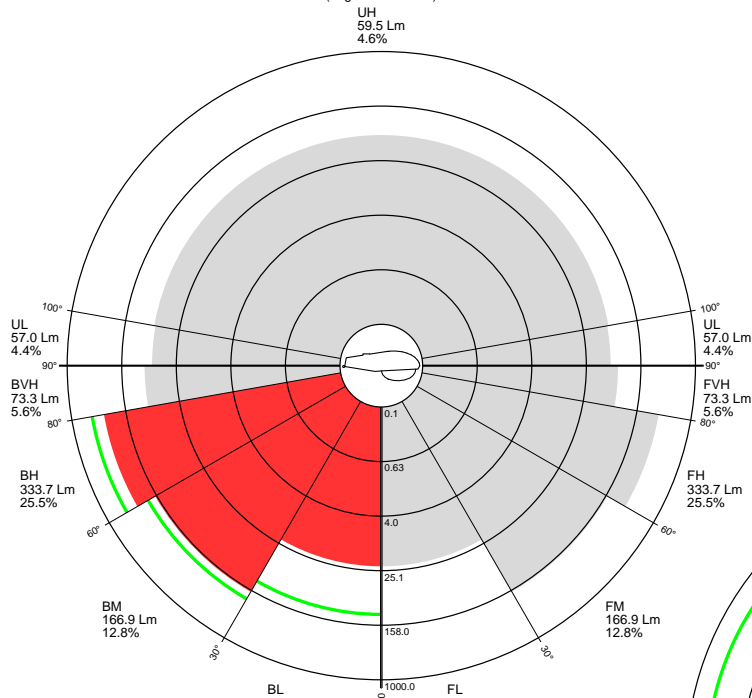


REPORT NUMBER: PRORATED FROM RAB03690
ISSUE DATE: 08/30/17
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 6 OF 9

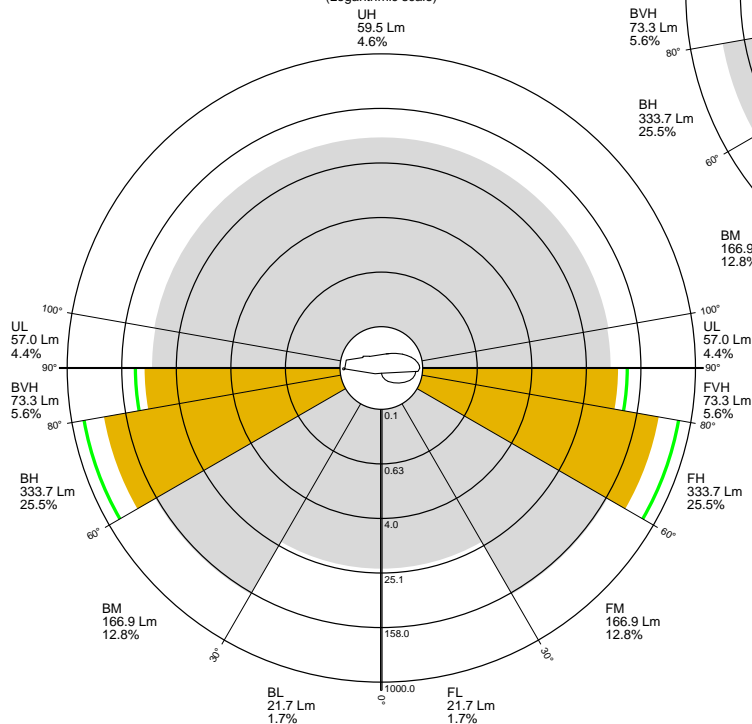
Backlight Rating Details

(Logarithmic scale)



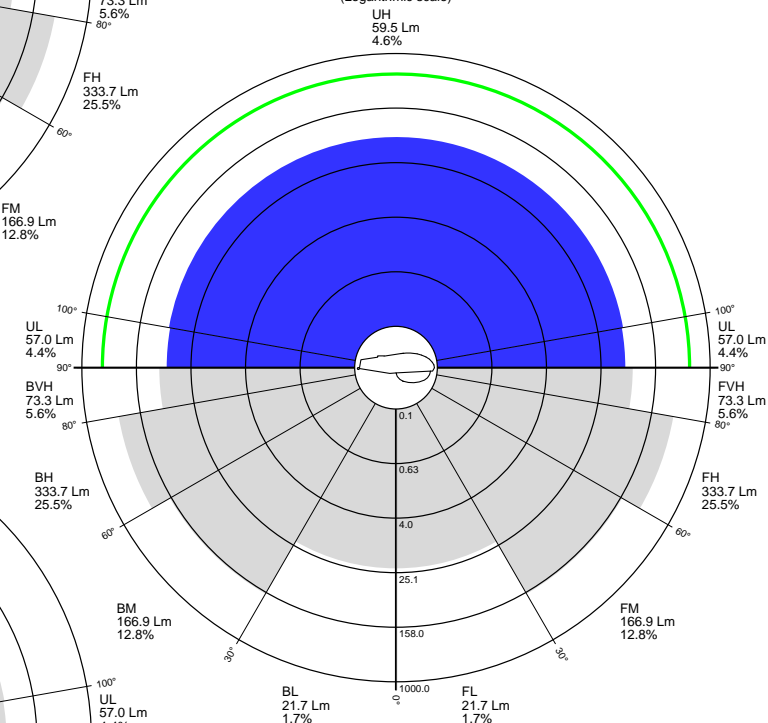
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



REPORT NUMBER: PRORATED FROM RAB03690
 ISSUE DATE: 08/30/17
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 7 OF 9

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	1.	1.	1.	1.	1.	1.	1.	1.	1.
	175.0	0.	0.	0.	0.	0.	0.	0.	1.	1.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	1.	0.	0.	0.	0.	0.	0.	0.
	145.0	2.	2.	2.	2.	2.	1.	1.	1.	1.
	135.0	6.	6.	6.	5.	5.	5.	5.	5.	4.
	125.0	11.	11.	11.	11.	9.	9.	9.	8.	8.
	115.0	18.	18.	18.	18.	18.	16.	16.	15.	15.
	105.0	28.	28.	28.	28.	28.	27.	27.	27.	26.
	95.0	52.	52.	52.	52.	50.	50.	49.	49.	49.
	90.0	78.	78.	78.	78.	76.	76.	75.	74.	71.
	87.5	102.	102.	103.	101.	100.	98.	95.	94.	91.
	85.0	137.	137.	137.	135.	131.	129.	123.	121.	118.
V	82.5	183.	184.	183.	179.	172.	167.	159.	156.	152.
E	80.0	242.	245.	242.	237.	227.	219.	207.	201.	198.
R	77.5	323.	327.	320.	310.	294.	286.	269.	259.	253.
T	75.0	411.	410.	403.	390.	368.	351.	334.	320.	309.
I	72.5	472.	470.	459.	443.	419.	399.	378.	362.	350.
C	70.0<<	472.	471.	461.	446.	426.	406.	386.	364.	354.
A	67.5	420.	422.	413.	403.	389.	372.	354.	331.	320.
L	65.0	354.	351.	345.	342.	329.	315.	300.	279.	269.
	62.5	285.	283.	280.	278.	269.	258.	247.	234.	227.
A	60.0	232.	231.	228.	227.	222.	214.	208.	201.	197.
N	57.5	198.	198.	196.	194.	192.	185.	183.	180.	178.
G	55.0	178.	177.	176.	174.	172.	167.	166.	166.	164.
L	52.5	165.	165.	164.	162.	159.	156.	155.	155.	155.
E	50.0	159.	158.	157.	155.	151.	149.	148.	146.	146.
	47.5	155.	153.	153.	149.	145.	143.	141.	138.	137.
	45.0	151.	151.	150.	145.	141.	137.	133.	131.	129.
	42.5	149.	149.	146.	141.	136.	130.	126.	123.	119.
	40.0	146.	145.	143.	137.	130.	124.	119.	114.	111.
	37.5	143.	142.	138.	132.	124.	117.	110.	105.	102.
	35.0	138.	137.	132.	126.	117.	109.	102.	96.	93.
	30.0	115.	115.	112.	107.	98.	91.	84.	77.	73.
	25.0	78.	78.	78.	75.	71.	67.	62.	57.	54.
	20.0	53.	53.	52.	50.	49.	47.	46.	43.	41.
	15.0	37.	39.	39.	37.	37.	36.	35.	35.	34.
	10.0	28.	28.	27.	26.	26.	23.	22.	21.	20.
	5.0	6.	6.	5.	5.	5.	4.	4.	2.	2.
	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.

||
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB03690
 ISSUE DATE: 08/30/17
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 8 OF 9

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
	180.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	175.0	1.	1.	1.	1.	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.	1.	0.
	145.0	1.	1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
	135.0	4.	4.	4.	5.	5.	5.	5.	5.	6.	6.	6.
	125.0	8.	8.	8.	8.	9.	9.	9.	11.	11.	11.	11.
	115.0	15.	15.	15.	15.	16.	16.	18.	18.	18.	18.	18.
	105.0	26.	26.	26.	27.	27.	27.	28.	28.	28.	28.	28.
	95.0	47.	48.	49.	49.	49.	50.	50.	52.	52.	52.	52.
	90.0	71.	70.	71.	74.	75.	76.	76.	78.	78.	78.	78.
	87.5	90.	89.	91.	94.	95.	98.	100.	101.	103.	102.	102.
	85.0	116.	115.	118.	121.	123.	129.	131.	135.	137.	137.	137.
V	82.5	151.	149.	152.	156.	159.	167.	172.	179.	183.	184.	183.
E	80.0	192.	192.	198.	201.	207.	219.	227.	237.	242.	245.	242.
R	77.5	246.	246.	253.	259.	269.	286.	294.	310.	320.	327.	323.
T	75.0	303.	303.	309.	320.	334.	351.	368.	390.	403.	410.	411.
I	72.5	344.	344.	350.	362.	378.	399.	419.	443.	459.	470.	472.
C	70.0<<	345.	345.	354.	364.	386.	406.	426.	446.	461.	471.	472.
A	67.5	310.	310.	320.	331.	354.	372.	389.	403.	413.	422.	420.
L	65.0	262.	261.	269.	279.	300.	315.	329.	342.	345.	351.	354.
	62.5	221.	221.	227.	234.	247.	258.	269.	278.	280.	283.	285.
A	60.0	194.	194.	197.	201.	208.	214.	222.	227.	228.	231.	232.
N	57.5	177.	177.	178.	180.	183.	185.	192.	194.	196.	198.	198.
G	55.0	164.	164.	164.	166.	166.	167.	172.	174.	176.	177.	178.
L	52.5	152.	152.	155.	155.	155.	156.	159.	162.	164.	165.	165.
E	50.0	144.	144.	146.	146.	148.	149.	151.	155.	157.	158.	159.
	47.5	136.	136.	137.	138.	141.	143.	145.	149.	153.	153.	155.
	45.0	129.	129.	129.	131.	133.	137.	141.	145.	150.	151.	151.
	42.5	119.	119.	119.	123.	126.	130.	136.	141.	146.	149.	149.
	40.0	110.	110.	111.	114.	119.	124.	130.	137.	143.	145.	146.
	37.5	100.	100.	102.	105.	110.	117.	124.	132.	138.	142.	143.
	35.0	89.	89.	93.	96.	102.	109.	117.	126.	132.	137.	138.
	30.0	69.	70.	73.	77.	84.	91.	98.	107.	112.	115.	115.
	25.0	52.	53.	54.	57.	62.	67.	71.	75.	78.	78.	78.
	20.0	41.	41.	41.	43.	46.	47.	49.	50.	52.	53.	53.
	15.0	34.	33.	34.	35.	35.	36.	37.	37.	39.	39.	37.
	10.0	21.	20.	20.	21.	22.	23.	26.	26.	27.	28.	28.
	5.0	2.	1.	2.	2.	4.	4.	5.	5.	5.	6.	6.
	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB03690
ISSUE DATE: 08/30/17
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 9 OF 9

5-DEGREE ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	4
15- 20	7
20- 25	12
25- 30	20
30- 35	30
35- 40	40
40- 45	49
45- 50	58
50- 55	69
55- 60	88
60- 65	126
65- 70	184
70- 75	205
75- 80	153
80- 85	92
85- 90	54
90- 95	34
95-100	23
100-105	17
105-110	13
110-115	9
115-120	7
120-125	5
125-130	4
130-135	2
135-140	1
140-145	1
145-150	0
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	12
0- 30	43
0- 40	113
0- 50	220
0- 60	377
0- 70	687
0- 80	1045
0- 90	1191
0-100	1248
0-110	1278
0-120	1294
0-130	1303
0-140	1306
0-150	1307
0-160	1308
0-170	1308
0-180	1308