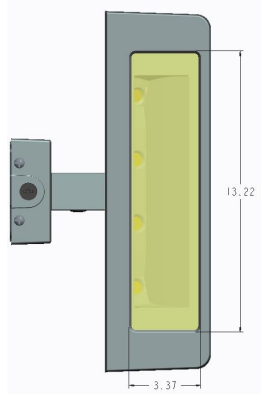


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 20 foot mounting height.



REPORT NUMBER: PRORATED FROM RAB01940
 ISSUE DATE: 05/11/16 PAGE: 1 OF 9
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: WPLED104N/480 /
 ALED104N/480 (15-DEGREE UPTILT)
 LUMINAIRE: CAST FINNED METAL HOUSING,
 2-PIECE EXTRUDED METAL HEAT SINK, 4
 CIRCUIT BOARDS EACH WITH 1 LED,
 MOLDED PLASTIC REFLECTOR WITH
 SPECULAR FINISH AND 1 OPTICAL
 COMPARTMENT WITH 1 APERTURE PER LED,
 CLEAR FLAT GLASS LENS IN CAST BROWN
 PAINTED METAL FRAME.
 LAMPS: FOUR WHITE MULTI-CHIP LIGHT
 EMITTING DIODES (LEDs), TILTED
 45-DEGREES FROM VERTICAL BASE-UP
 POSITION, 2 LEDS CANTED 12-DEGREES
 FROM STRAIGHT AHEAD.

(SEE PAGE 2 FOR MORE INFORMATION)

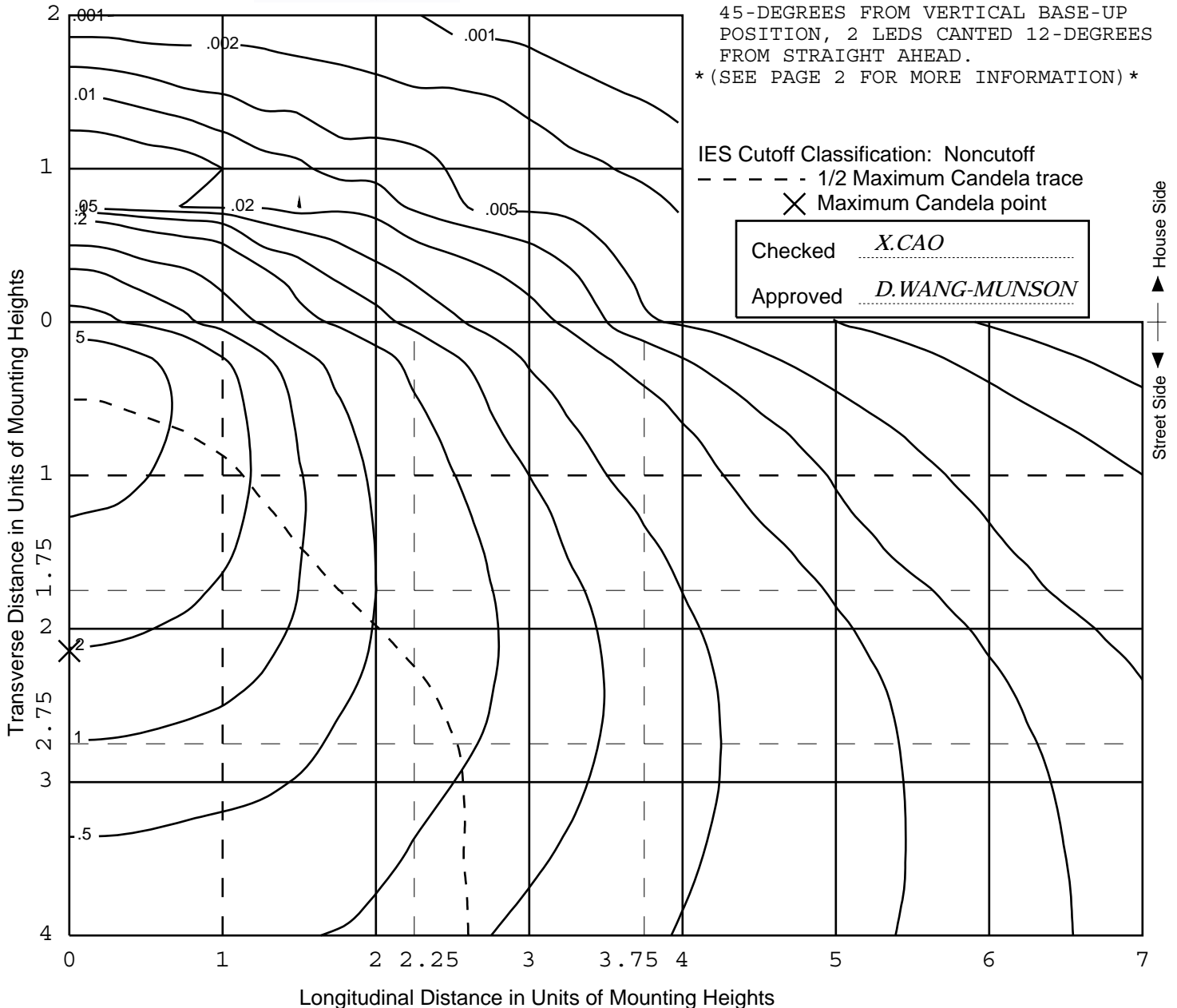
IES Cutoff Classification: Noncutoff

--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked X.CAO

Approved D.WANG-MUNSON



REPORT NUMBER: PRORATED FROM RAB01940
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ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB01940 WHICH WAS WPLED104N. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 111.72 W AT 480.0 VAC.

LED DRIVER: RD-T150-A-700/480

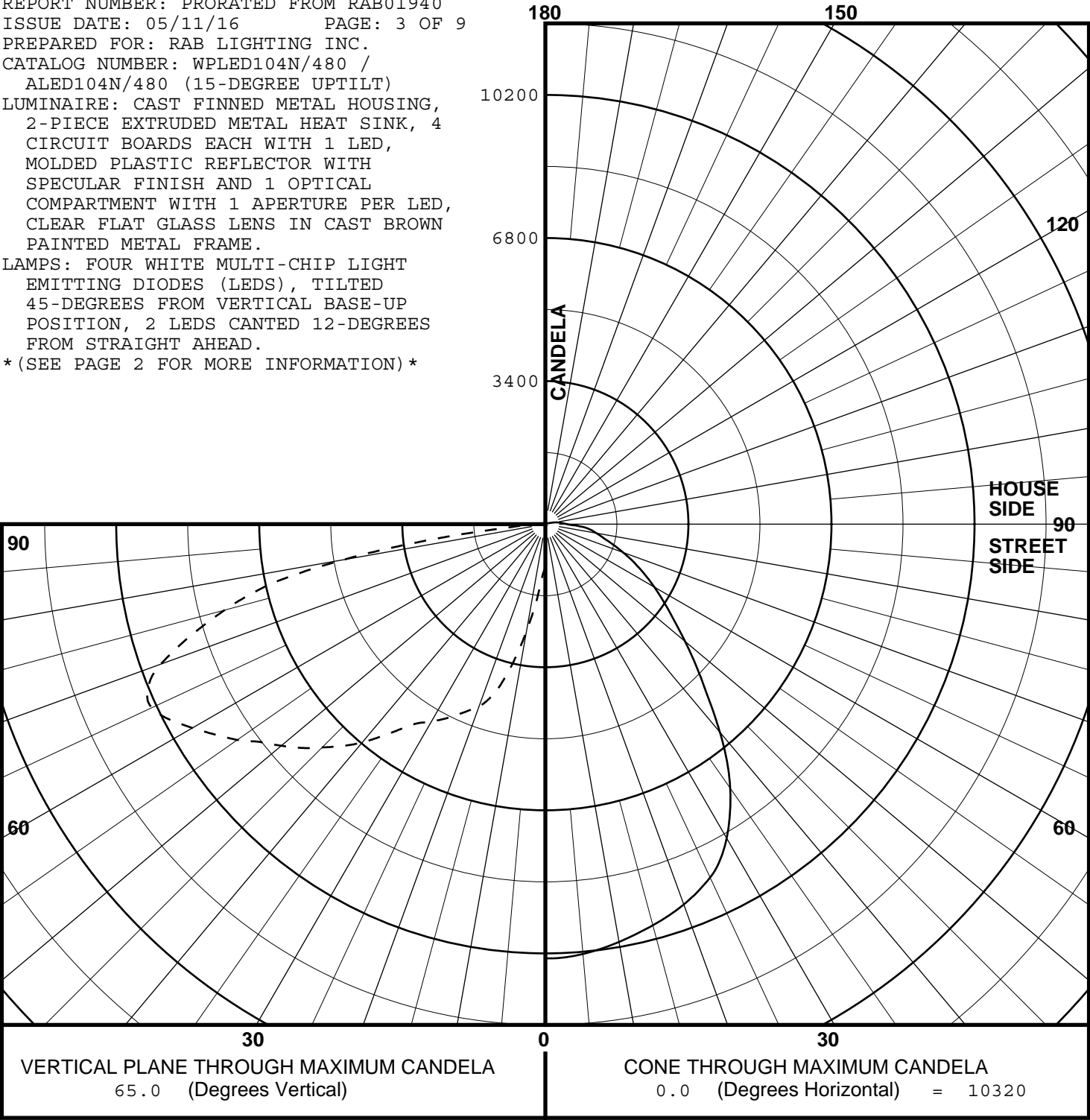
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE : 28.25 FEET

NOTE: THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

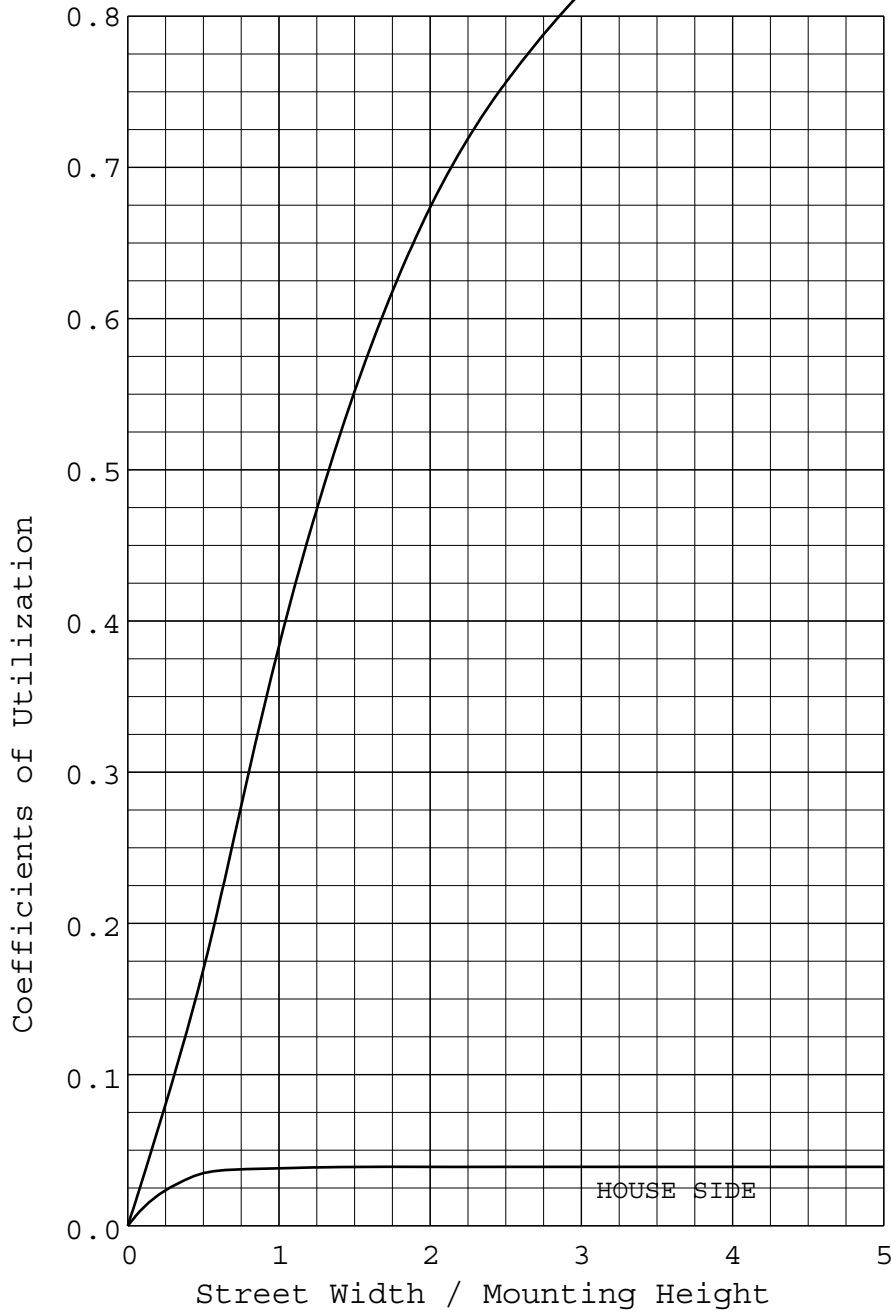
REPORT NUMBER: PRORATED FROM RAB01940
ISSUE DATE: 05/11/16 PAGE: 3 OF 9
PREPARED FOR: RAB LIGHTING INC.
CATALOG NUMBER: WPLED104N/480 /
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 POSITION, 2 LEDS CANTED 12-DEGREES
 FROM STRAIGHT AHEAD.
(SEE PAGE 2 FOR MORE INFORMATION)



REPORT NUMBER: PRORATED FROM RAB01940
 ISSUE DATE: 05/11/16 STREET SIDE
 PREPARED FOR: RAB LIGHTING INC.

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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	12690.	95.3
DOWNWARD HOUSE SIDE	532.	4.0
DOWNWARD TOTAL	13222.	99.3
UPWARD STREET SIDE	37.	0.3
UPWARD HOUSE SIDE	51.	0.4
UPWARD TOTAL	88.	0.7
TOTAL FLUX	13310.	100.0
TOTAL INPUT WATTS = 111.72		
EFFICACY = 119.1 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 RAB01940
 ISSUE DATE: 05/11/16
 PREPARED FOR: RAB LIGHTING INC.

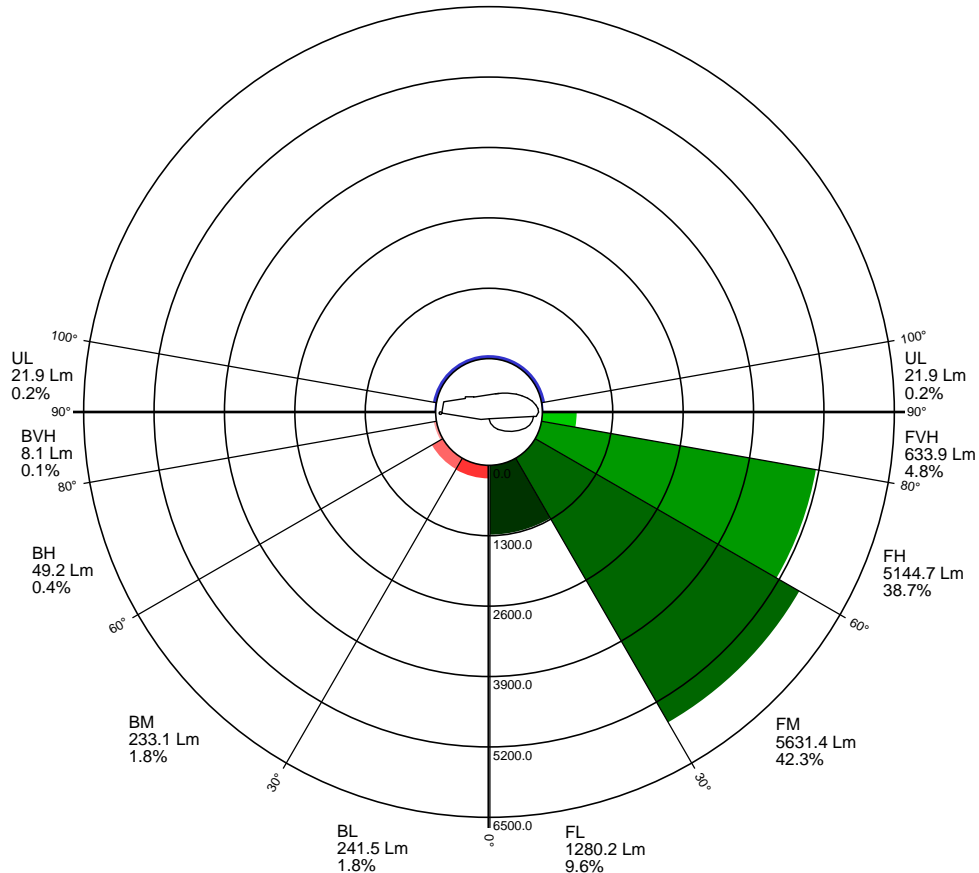
PAGE: 5 OF 9

BUG Rating:				B1 U3 G4		
Zonal Summary		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		12690	95.3			
FL	(0° - 30°)	1280.2	9.6			
FM	(30° - 60°)	5631.4	42.3			
FH	(60° - 80°)	5144.7	38.7			G3
FVH	(80° - 90°)	633.9	4.8			G4
Backward		532	4.0			
BL	(0° - 30°)	241.5	1.8	B1		
BM	(30° - 60°)	233.1	1.8	B1		
BH	(60° - 80°)	49.2	0.4	B0		G0
BVH	(80° - 90°)	8.1	0.1			G0
Upward		88	0.7			
UL	(90° - 100°)	21.9	0.2		U2	
UH	(100° - 180°)	65.8	0.5		U3	
Trapped Light		0	0.0			
Total Flux		13310	100.0			

Zonal Lumen Summary

(Linear scale)

UH
65.8 Lm
0.5%

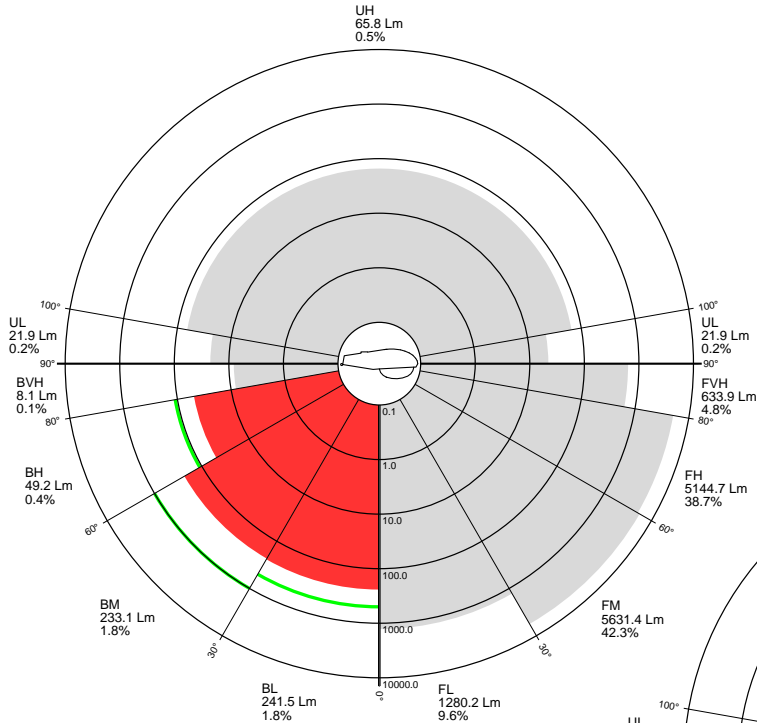


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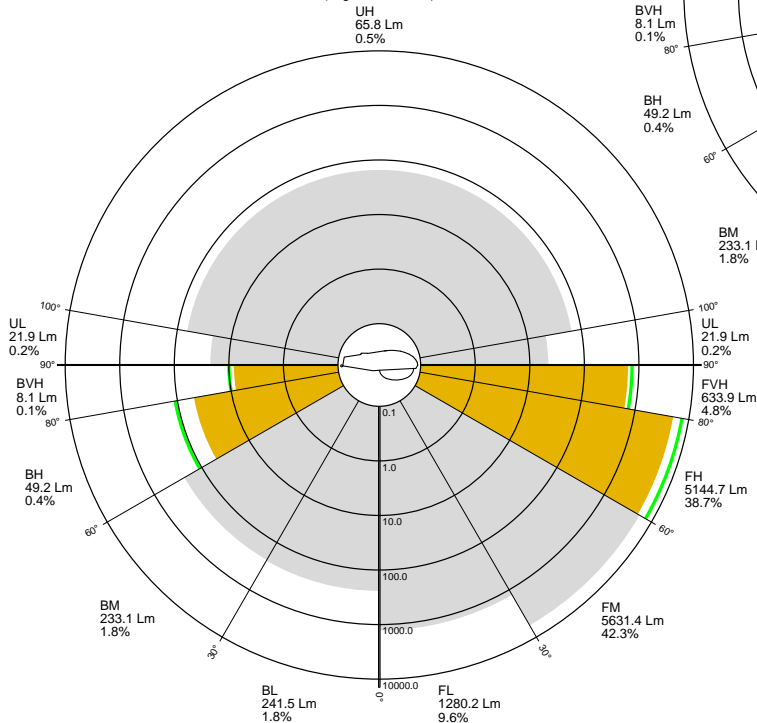
Backlight Rating Details

(Logarithmic scale)



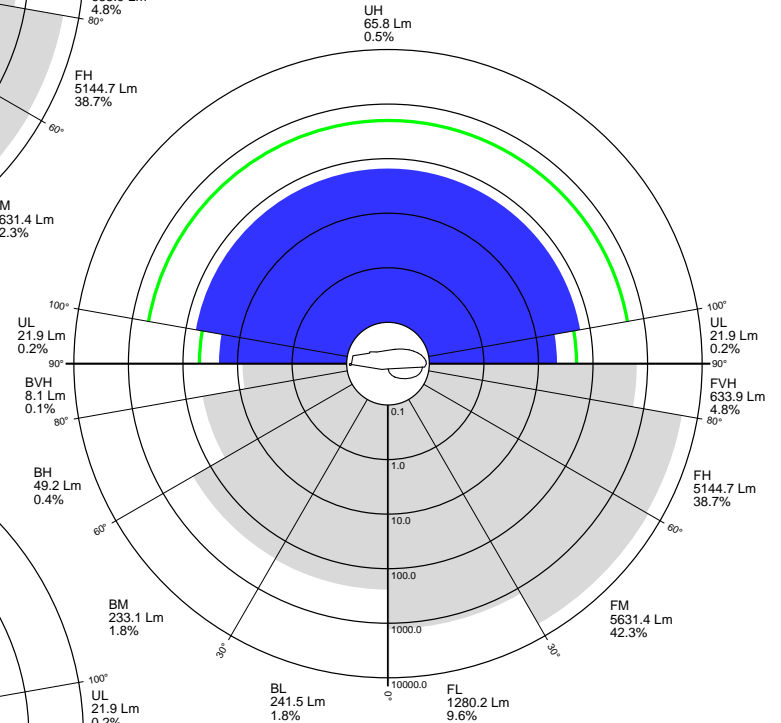
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



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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	9.	9.	9.	9.	9.	9.	9.	9.	9.
	175.0	1.	1.	3.	6.	8.	10.	12.	14.	17.
	165.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	155.0	0.	1.	3.	5.	8.	10.	12.	14.	17.
	145.0	0.	1.	3.	5.	8.	10.	12.	14.	17.
	135.0	0.	1.	3.	5.	8.	10.	12.	13.	15. 16.
	125.0	0.	1.	3.	5.	8.	10.	12.	13.	15. 15.
	115.0	0.	1.	3.	5.	8.	10.	12.	13.	15. 16.
	105.0	0.	1.	3.	5.	8.	10.	12.	13.	15. 16.
	95.0	25.	22.	20.	15.	14.	14.	14.	14.	15. 16.
	90.0	86.	106.	119.	97.	85.	82.	57.	40.	18. 16.
	87.5	401.	407.	373.	329.	261.	211.	227.	270.	186. 26.
	85.0	856.	900.	869.	930.	944.	1151.	1249.	933.	383. 58.
V	82.5	2560.	2646.	2777.	2860.	2672.	2697.	2164.	1342.	532. 161.
E	80.0	4901.	4981.	5113.	5092.	4219.	3617.	2732.	1795.	605. 230.
R	77.5	6795.	6864.	6787.	6743.	5110.	4316.	3282.	1920.	796. 281.
T	75.0	7896.	7939.	7782.	7946.	5952.	4921.	3545.	2007.	965. 410.
I	72.5	8854.	8898.	8759.	8913.	6823.	5174.	3601.	2111.	1112. 534.
C	70.0	9730.	9750.	9530.	9468.	7345.	5220.	3592.	2237.	1243. 726.
A	67.5	10229.	10203.	9865.	9522.	7603.	5185.	3554.	2366.	1389. 877.
L	65.0 <	10320.	10254.	9870.	9267.	7661.	5267.	3584.	2459.	1535. 960.
	62.5	10062.	9992.	9640.	8869.	7594.	5393.	3676.	2527.	1690. 1031.
A	60.0	9687.	9614.	9269.	8500.	7468.	5556.	3857.	2583.	1844. 1059.
N	57.5	9305.	9270.	8946.	8122.	7189.	5706.	4044.	2663.	1998. 1035.
G	55.0	8940.	8910.	8495.	7769.	6920.	5769.	4205.	2825.	2188. 1095.
L	52.5	8513.	8482.	8109.	7485.	6663.	5751.	4314.	3025.	2354. 1180.
E	50.0	8192.	8134.	7784.	7229.	6375.	5639.	4368.	3216.	2538. 1205.
	47.5	7871.	7791.	7461.	6934.	6148.	5414.	4403.	3409.	2614. 1212.
	45.0	7503.	7435.	7144.	6682.	5918.	5138.	4417.	3599.	2658. 1187.
	42.5	7154.	7114.	6852.	6364.	5659.	4894.	4339.	3756.	2643. 1154.
	40.0	6773.	6754.	6515.	6038.	5402.	4778.	4247.	3768.	2556. 1148.
	37.5	6338.	6332.	6154.	5730.	5219.	4744.	4187.	3700.	2413. 1164.
	35.0	5927.	5951.	5810.	5488.	5095.	4643.	4199.	3566.	2299. 1177.
	30.0	5409.	5417.	5354.	5152.	4800.	4512.	4082.	3244.	2092. 1157.
	25.0	5000.	4995.	4938.	4772.	4553.	4172.	3543.	2643.	1766. 1039.
	20.0	4611.	4602.	4555.	4376.	4111.	3590.	2881.	2126.	1454. 964.
	15.0	3830.	3792.	3715.	3459.	3175.	2723.	2295.	1792.	1325. 1037.
	10.0	2581.	2539.	2502.	2339.	2184.	1931.	1684.	1400.	1179. 1046.
	5.0	1510.	1485.	1483.	1410.	1355.	1261.	1201.	1124.	1080. 1026.
	0.0	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004. 1004.

||
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: PRORATED FROM RAB01940
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CANDELA TABULATION

CANDELA TABULATION		LATERAL ANGLE										
HOUSE SIDE		90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
	180.0	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
	175.0	17.	17.	16.	15.	13.	12.	10.	7.	5.	4.	4.
	165.0	17.	18.	17.	16.	14.	13.	11.	9.	8.	7.	7.
	155.0	18.	18.	17.	16.	15.	14.	12.	11.	11.	11.	11.
	145.0	17.	17.	17.	16.	15.	14.	13.	13.	13.	13.	13.
	135.0	16.	16.	16.	16.	15.	14.	14.	14.	14.	14.	14.
	125.0	16.	16.	16.	15.	15.	14.	15.	16.	16.	17.	17.
	115.0	16.	16.	16.	16.	16.	16.	17.	18.	19.	19.	19.
	105.0	17.	17.	17.	17.	17.	17.	19.	19.	20.	21.	21.
	95.0	17.	17.	17.	17.	17.	17.	18.	18.	19.	19.	19.
	90.0	16.	17.	17.	17.	16.	15.	15.	15.	15.	15.	15.
	87.5	17.	17.	16.	16.	16.	15.	14.	14.	13.	13.	13.
	85.0	21.	18.	16.	16.	15.	14.	13.	11.	11.	11.	11.
V	82.5	50.	24.	16.	15.	14.	13.	12.	10.	8.	8.	8.
E	80.0	92.	40.	19.	15.	14.	13.	11.	9.	6.	6.	6.
R	77.5	121.	58.	31.	16.	14.	12.	10.	8.	5.	4.	4.
T	75.0	130.	89.	48.	22.	13.	12.	10.	7.	5.	2.	2.
I	72.5	303.	199.	42.	33.	14.	12.	10.	7.	5.	2.	2.
C	70.0	373.	247.	46.	42.	16.	12.	10.	7.	5.	3.	3.
A	67.5	459.	288.	58.	49.	21.	13.	9.	7.	5.	3.	3.
L	65.0<<	501.	374.	109.	47.	24.	15.	11.	7.	5.	3.	3.
	62.5	570.	394.	181.	35.	37.	19.	13.	9.	6.	5.	4.
A	60.0	576.	400.	232.	24.	43.	22.	20.	12.	10.	10.	10.
N	57.5	563.	422.	277.	32.	39.	32.	24.	20.	17.	16.	16.
G	55.0	621.	475.	317.	55.	29.	42.	31.	23.	25.	26.	26.
L	52.5	746.	577.	402.	124.	21.	43.	44.	28.	28.	30.	30.
E	50.0	785.	618.	465.	243.	25.	35.	47.	37.	35.	35.	35.
	47.5	806.	632.	494.	359.	40.	25.	43.	42.	47.	50.	49.
	45.0	806.	642.	519.	427.	94.	21.	33.	39.	48.	54.	53.
	42.5	807.	663.	543.	453.	199.	33.	22.	30.	42.	48.	48.
	40.0	833.	697.	572.	472.	292.	59.	23.	21.	30.	37.	39.
	37.5	870.	732.	595.	487.	364.	138.	37.	20.	21.	25.	25.
	35.0	908.	762.	611.	494.	391.	236.	80.	34.	28.	22.	21.
	30.0	943.	780.	623.	498.	413.	359.	292.	209.	128.	88.	84.
	25.0	887.	721.	598.	503.	449.	435.	451.	451.	410.	378.	374.
	20.0	857.	713.	630.	586.	554.	548.	540.	516.	498.	484.	486.
	15.0	965.	844.	763.	713.	676.	632.	605.	586.	573.	559.	556.
	10.0	996.	924.	817.	774.	740.	714.	699.	681.	670.	658.	662.
	5.0	994.	965.	888.	837.	813.	797.	787.	777.	774.	767.	772.
	0.0	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004.	1004.

CONE OF MAXIMUM CANDELA

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	24
5- 10	84
10- 15	175
15- 20	291
20- 25	412
25- 30	536
30- 35	655
35- 40	780
40- 45	921
45- 50	1056
50- 55	1174
55- 60	1279
60- 65	1378
65- 70	1426
70- 75	1331
75- 80	1059
80- 85	542
85- 90	100
90- 95	13
95-100	8
100-105	8
105-110	7
110-115	7
115-120	6
120-125	6
125-130	5
130-135	5
135-140	5
140-145	4
145-150	4
150-155	3
155-160	2
160-165	2
165-170	1
170-175	1
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	109
0- 20	574
0- 30	1522
0- 40	2957
0- 50	4933
0- 60	7386
0- 70	10190
0- 80	12580
0- 90	13222
0-100	13244
0-110	13259
0-120	13272
0-130	13283
0-140	13292
0-150	13300
0-160	13305
0-170	13309
0-180	13310