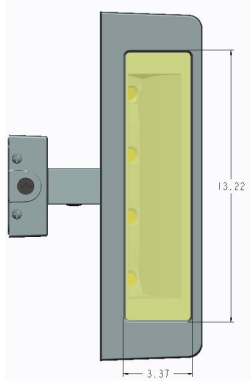


### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 20 foot mounting height.



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 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: WPLED104Y/480 /  
 ALED104Y/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.

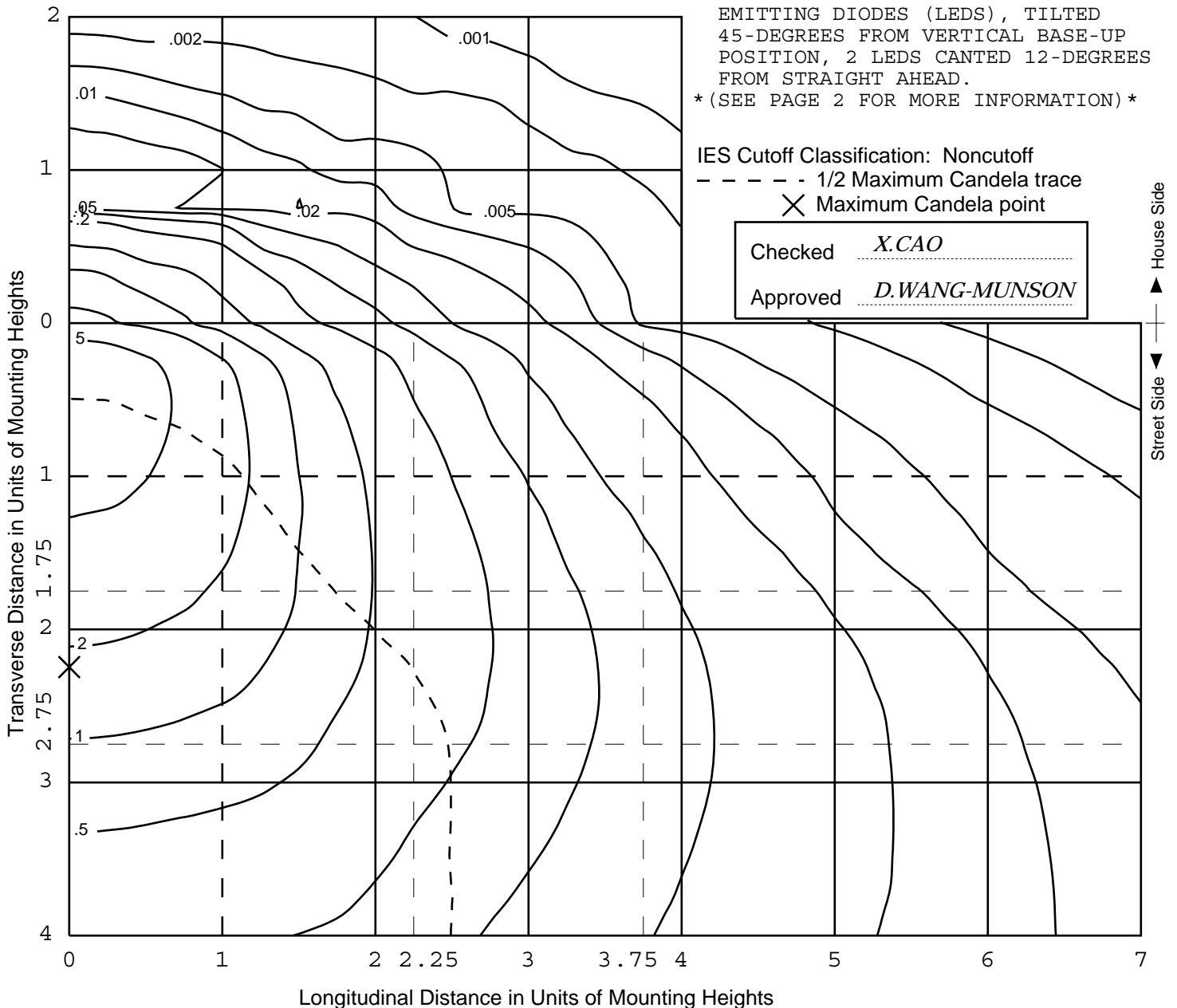
\*(SEE PAGE 2 FOR MORE INFORMATION)\*

IES Cutoff Classification: Noncutoff

--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked X.CAO  
 Approved D.WANG-MUNSON



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ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB01937 WHICH WAS WPLED104Y. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 113.04 W AT 480.0 VAC.

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

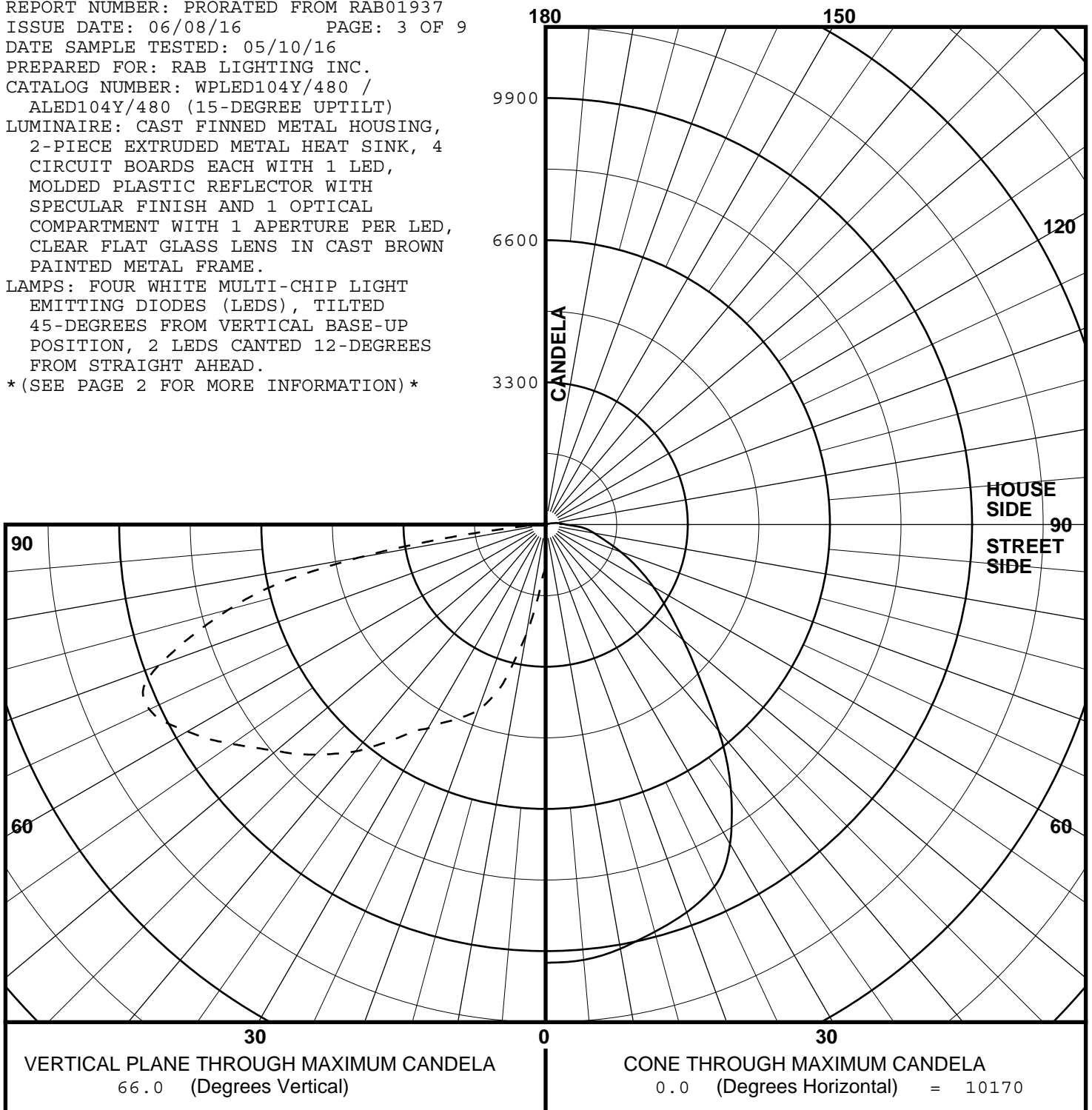
TEST PROCEDURE: IESNA LM-79-08

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

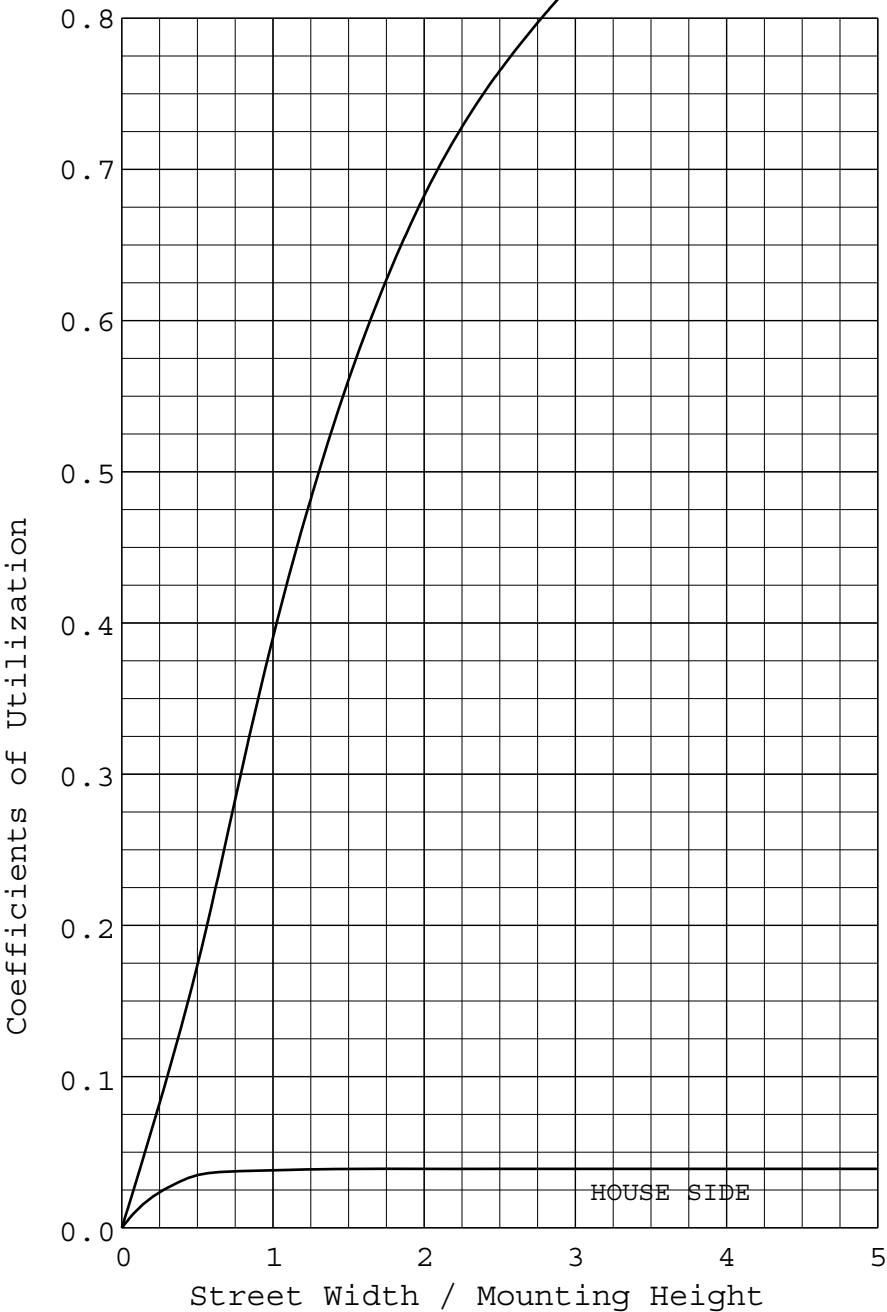
REPORT NUMBER: PRORATED FROM RAB01937  
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 CATALOG NUMBER: WPLED104Y/480 /  
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 PAINTED METAL FRAME.  
 LAMPS: FOUR WHITE MULTI-CHIP LIGHT  
 EMITTING DIODES (LEDs), TILTED  
 45-DEGREES FROM VERTICAL BASE-UP  
 POSITION, 2 LEDS CANTED 12-DEGREES  
 FROM STRAIGHT AHEAD.  
 \*(SEE PAGE 2 FOR MORE INFORMATION)\*



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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	12459.	95.3
DOWNWARD HOUSE SIDE	523.	4.0
DOWNWARD TOTAL	12982.	99.4
UPWARD STREET SIDE	35.	0.3
UPWARD HOUSE SIDE	50.	0.4
UPWARD TOTAL	85.	0.6
TOTAL FLUX	13067.	100.0
TOTAL INPUT WATTS = 113.04		
EFFICACY = 115.6 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.

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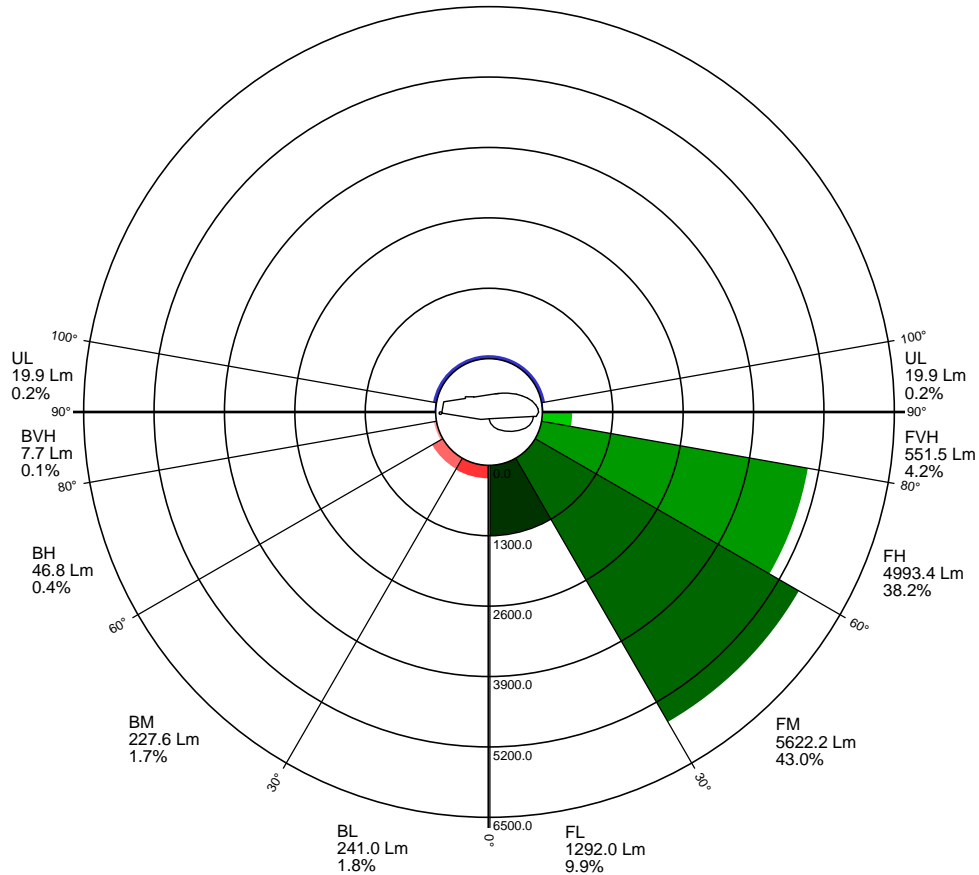
PAGE: 5 OF 9  
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BUG Rating:				B1 U3 G4		
Zonal Summary		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		12459	95.3			
FL	(0° - 30°)	1292.0	9.9			
FM	(30° - 60°)	5622.2	43.0			
FH	(60° - 80°)	4993.4	38.2			G2
FVH	(80° - 90°)	551.5	4.2			G4
Backward		523	4.0			
BL	(0° - 30°)	241.0	1.8	B1		
BM	(30° - 60°)	227.6	1.7	B1		
BH	(60° - 80°)	46.8	0.4	B0		G0
BVH	(80° - 90°)	7.7	0.1			G0
Upward		85	0.6			
UL	(90° - 100°)	19.9	0.2		U2	
UH	(100° - 180°)	65.0	0.5		U3	
Trapped Light		0	0.0			
Total Flux		13067	100.0			

### Zonal Lumen Summary

(Linear scale)

UH  
65.0 Lm  
0.5%

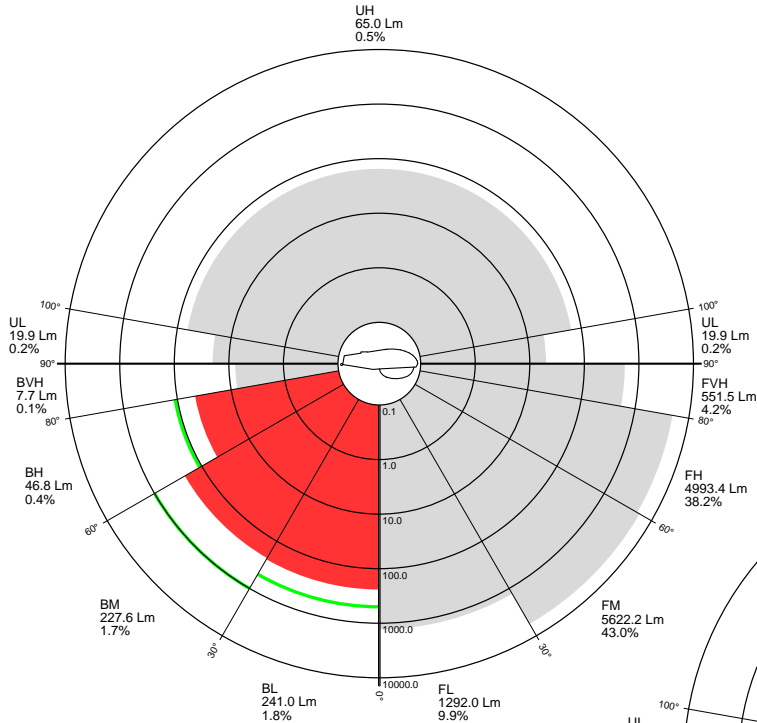


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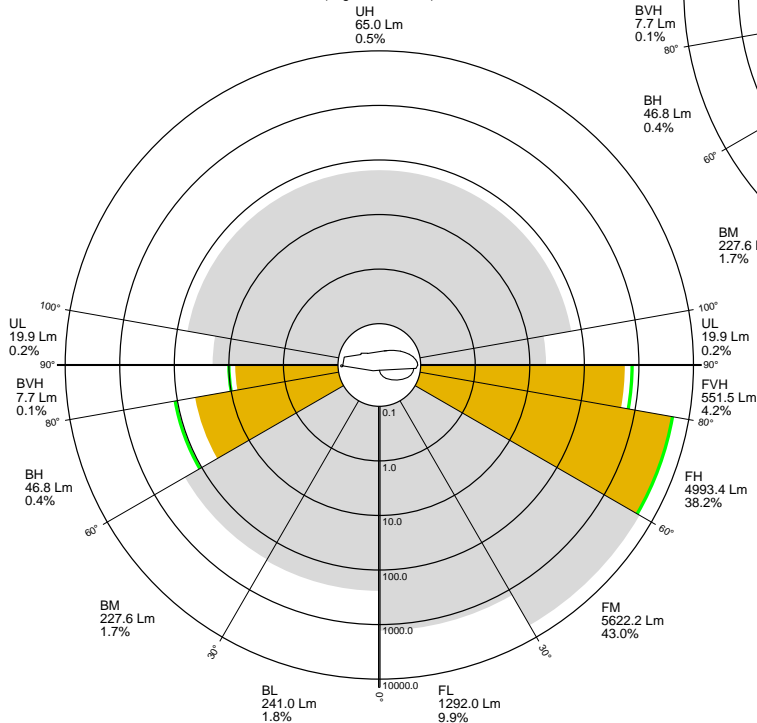
### Backlight Rating Details

(Logarithmic scale)



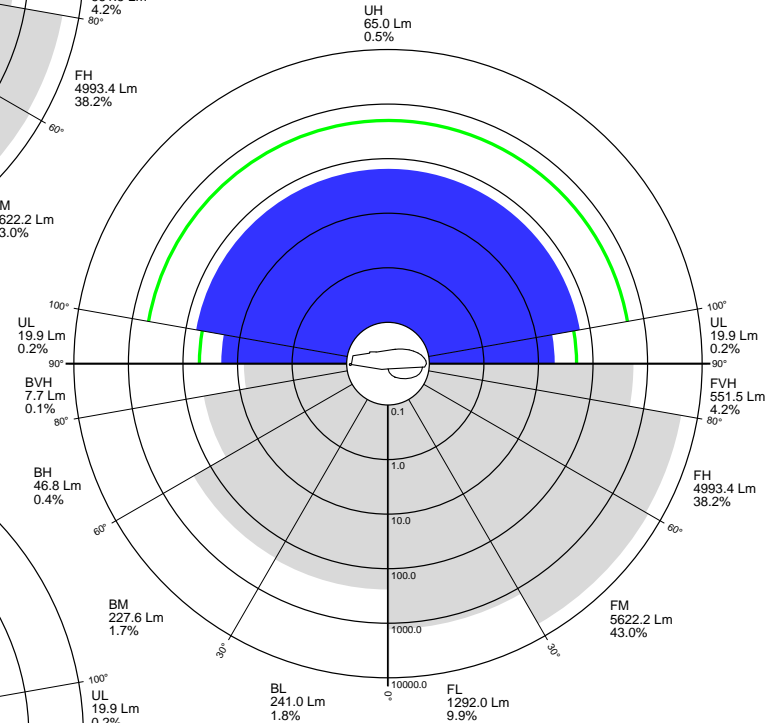
### Glare Rating Details

(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.	16.
	165.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	155.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	145.0	0.	1.	3.	5.	8.	10.	12.	14.	16.
	135.0	0.	1.	3.	5.	8.	10.	12.	13.	16.
	125.0	0.	1.	3.	5.	8.	10.	12.	13.	15.
	115.0	0.	1.	3.	5.	8.	10.	11.	13.	16.
	105.0	0.	1.	3.	5.	8.	10.	12.	13.	16.
	95.0	14.	13.	13.	11.	11.	12.	13.	13.	16.
	90.0	106.	103.	106.	95.	81.	57.	46.	32.	16.
	87.5	292.	294.	283.	262.	219.	172.	196.	225.	21.
	85.0	691.	676.	705.	739.	833.	904.	1092.	851.	48.
	82.5	2123.	2036.	2269.	2361.	2421.	2398.	2038.	1247.	130.
V	80.0	4386.	4285.	4521.	4412.	3995.	3392.	2597.	1732.	192.
E	77.5	6391.	6333.	6426.	6312.	4902.	4075.	3196.	1851.	241.
R	75.0	7614.	7571.	7519.	7577.	5729.	4761.	3436.	1932.	374.
T	72.5	8624.	8584.	8538.	8653.	6652.	5060.	3480.	2038.	503.
I	70.0	9558.	9524.	9389.	9281.	7173.	5055.	3477.	2166.	703.
C	67.5	10121.	10091.	9783.	9360.	7414.	5009.	3448.	2285.	823.
A	66.0	10170.	10143.	9787.	9272.	7498.	5065.	3467.	2347.	880.
L	65.0	10152.	10127.	9736.	9148.	7492.	5111.	3490.	2383.	929.
	62.5	9949.	9912.	9482.	8769.	7475.	5249.	3567.	2460.	1020.
A	60.0	9601.	9554.	9153.	8413.	7362.	5451.	3746.	2534.	1038.
N	57.5	9265.	9211.	8840.	8055.	7116.	5618.	3977.	2606.	1025.
G	55.0	8880.	8832.	8429.	7738.	6858.	5712.	4161.	2771.	1075.
L	52.5	8508.	8455.	8103.	7470.	6619.	5716.	4269.	2967.	1161.
E	50.0	8173.	8142.	7787.	7221.	6342.	5619.	4332.	3159.	1177.
	47.5	7877.	7840.	7535.	6950.	6133.	5399.	4374.	3378.	1183.
	45.0	7553.	7529.	7206.	6706.	5912.	5144.	4404.	3595.	1162.
	42.5	7213.	7219.	6897.	6396.	5650.	4904.	4322.	3752.	1146.
	40.0	6875.	6861.	6560.	6088.	5396.	4800.	4246.	3775.	1143.
	37.5	6464.	6447.	6200.	5786.	5212.	4742.	4207.	3707.	1154.
	35.0	6068.	6050.	5858.	5531.	5123.	4634.	4228.	3610.	1161.
	30.0	5458.	5479.	5391.	5167.	4836.	4521.	4122.	3296.	1137.
	25.0	5002.	5034.	4970.	4838.	4611.	4212.	3582.	2708.	1034.
	20.0	4586.	4624.	4564.	4424.	4166.	3659.	2924.	2192.	958.
	15.0	3814.	3813.	3731.	3558.	3200.	2775.	2304.	1831.	1025.
	10.0	2585.	2598.	2482.	2415.	2206.	1982.	1692.	1418.	1021.
	5.0	1512.	1528.	1483.	1455.	1360.	1281.	1187.	1121.	999.
	0.0	986.	986.	986.	986.	986.	986.	986.	986.	986.
		PLANE OF MAXIMUM CANDELA								
		CONE OF MAXIMUM CANDELA								

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### 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	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.	17.	17.	16.	14.	13.	11.	9.	8.	8. 8.
	155.0	17.	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.	15. 15.
	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.	16.	17.	18.	19.	19.	20. 20.
	95.0	17.	17.	17.	17.	16.	16.	17.	18.	18.	18. 18.
	90.0	16.	16.	16.	16.	16.	15.	15.	15.	15.	14. 15.
	87.5	17.	16.	16.	16.	15.	15.	13.	13.	12.	12. 12.
	85.0	19.	17.	16.	15.	15.	14.	12.	10.	10.	10. 10.
	82.5	39.	21.	16.	15.	14.	13.	11.	9.	8.	7. 8.
V	80.0	79.	31.	18.	15.	14.	12.	11.	8.	6.	5. 5.
E	77.5	107.	56.	28.	16.	14.	12.	10.	8.	5.	3. 4.
R	75.0	101.	80.	50.	19.	13.	12.	10.	7.	4.	2. 2.
T	72.5	283.	189.	41.	32.	14.	12.	10.	7.	5.	3. 3.
I	70.0	337.	226.	42.	41.	15.	12.	10.	8.	5.	3. 3.
C	67.5	413.	271.	46.	49.	21.	13.	10.	7.	5.	4. 4.
A	66.0<<	469.	335.	69.	48.	22.	13.	10.	7.	5.	4. 4.
L	65.0	492.	354.	103.	46.	24.	15.	11.	8.	5.	4. 4.
	62.5	556.	371.	176.	36.	36.	20.	13.	10.	6.	5. 5.
A	60.0	548.	390.	223.	24.	42.	23.	21.	13.	11.	11. 11.
N	57.5	549.	412.	257.	31.	39.	33.	25.	21.	18.	18. 17.
G	55.0	592.	449.	301.	45.	30.	42.	31.	25.	28.	28. 28.
L	52.5	709.	539.	382.	122.	22.	43.	44.	29.	30.	32. 32.
E	50.0	750.	581.	436.	247.	23.	36.	47.	39.	37.	37. 37.
	47.5	767.	596.	467.	361.	36.	25.	44.	43.	49.	50. 49.
	45.0	772.	607.	495.	421.	94.	20.	35.	40.	50.	54. 54.
	42.5	783.	632.	525.	449.	208.	31.	23.	32.	45.	49. 50.
	40.0	809.	674.	559.	467.	303.	58.	22.	22.	33.	38. 40.
	37.5	848.	712.	584.	479.	365.	140.	34.	20.	22.	25. 26.
	35.0	883.	742.	599.	485.	386.	241.	77.	33.	26.	23. 22.
	30.0	913.	757.	609.	489.	408.	358.	297.	226.	134.	99. 88.
	25.0	871.	718.	594.	501.	444.	437.	454.	456.	417.	395. 387.
	20.0	846.	721.	629.	587.	554.	550.	535.	517.	501.	491. 487.
	15.0	950.	855.	755.	708.	665.	626.	599.	586.	570.	563. 560.
	10.0	974.	918.	804.	762.	730.	709.	690.	679.	663.	659. 656.
	5.0	973.	947.	885.	835.	808.	794.	779.	775.	767.	767. 762.
	0.0	986.	986.	986.	986.	986.	986.	986.	986.	986.	986. 986.

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	24
5- 10	85
10- 15	176
15- 20	293
20- 25	416
25- 30	540
30- 35	658
35- 40	784
40- 45	923
45- 50	1054
50- 55	1166
55- 60	1264
60- 65	1354
65- 70	1397
70- 75	1292
75- 80	997
80- 85	476
85- 90	83
90- 95	12
95-100	8
100-105	7
105-110	7
110-115	7
115-120	6
120-125	6
125-130	5
130-135	5
135-140	4
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	577
0- 30	1533
0- 40	2975
0- 50	4952
0- 60	7383
0- 70	10134
0- 80	12423
0- 90	12982
0-100	13002
0-110	13016
0-120	13029
0-130	13040
0-140	13050
0-150	13057
0-160	13063
0-170	13066
0-180	13067