

REPORT NUMBER: PRORATED FROM RAB04341

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ISSUE DATE: 05/01/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED3T78N/480 - RWLED3T78N/480 - RWLED3T78SFN/480 -
WPLED3T78N/480 (TYPE III)

LUMINAIRE: CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED,
MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED,
CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.

LAMPS: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDs TILTED
63-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 75-DEGREES FROM
STRAIGHT AHEAD, 2 LEDs TILTED 67-DEGREES FROM VERTICAL BASE-UP POSITION
AND CANTED 68-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 58-DEGREES FROM
VERTICAL BASE-UP POSITION AND CANTED 40-DEGREES FROM STRAIGHT AHEAD.

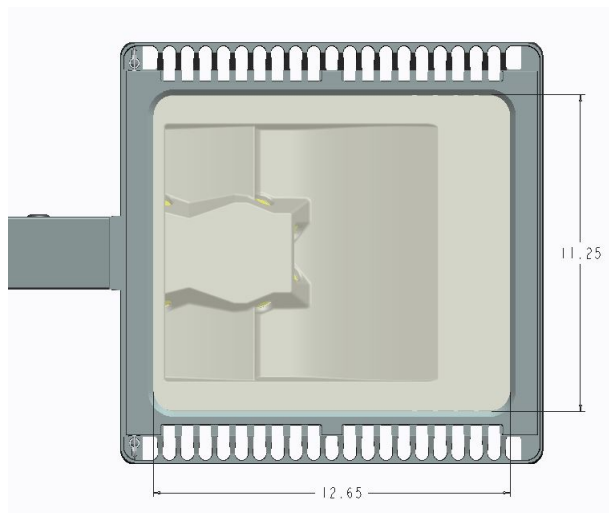
ABSOLUTE: NOTE: THIS REPORT WAS PRORATED FROM RAB04341 WHICH WAS
ALED3T78Y/480. ACTUAL PERFORMANCE MAY VARY.

WATT: TOTAL INPUT WATTS = 79.9 W AT 480.0 VAC.

LED DRIVER: LED DRIVER: RD-S075-A2100-480

PROCEDURE: TEST PROCEDURE: IESNA LM-79-08

NOTE: LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE



Checked X.CAO

Approved D.WANG-MUNSON

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

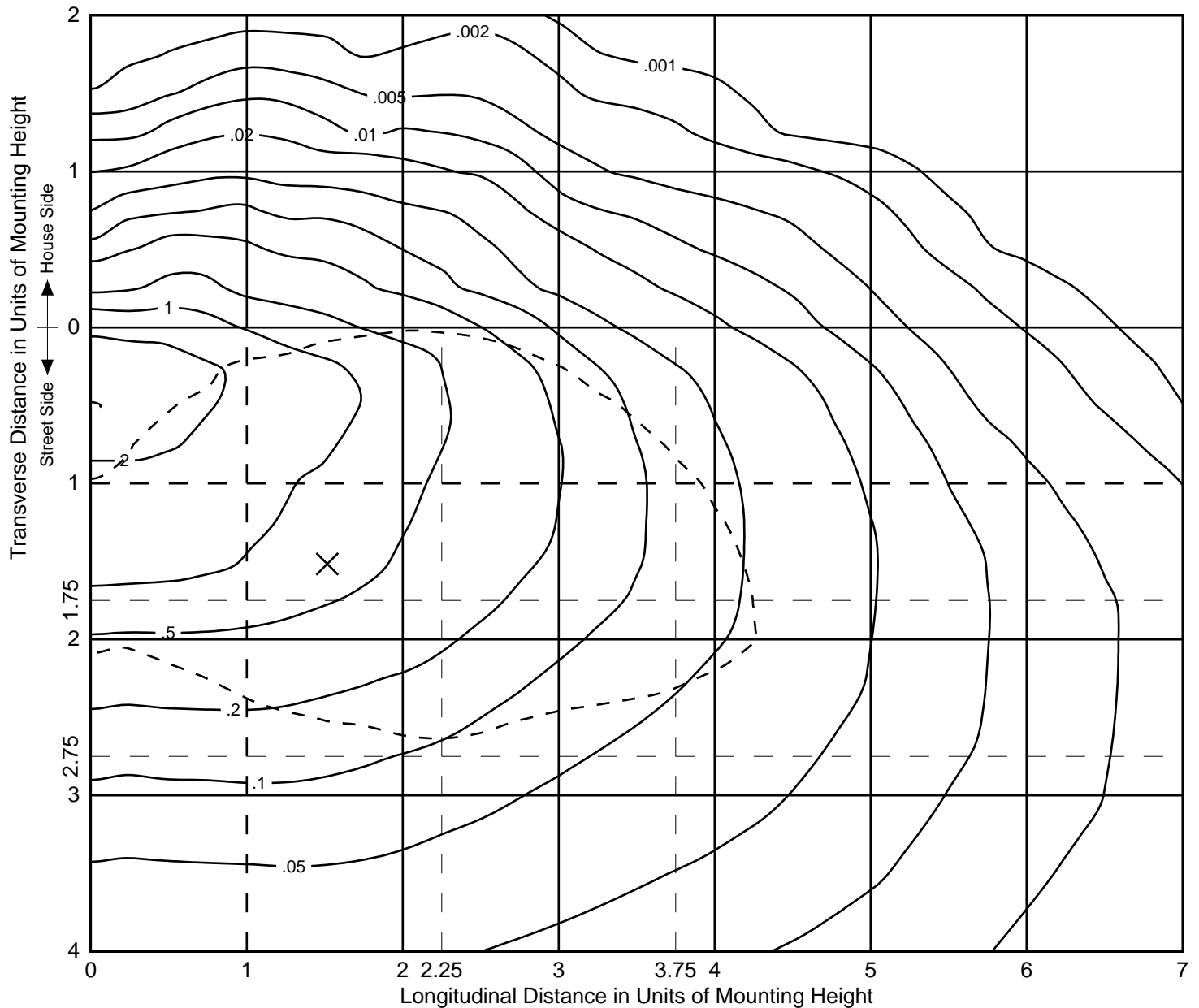
Values based on 25-foot mounting height

IES Classification: Short, Type III

Cutoff Classification (deprecated): Noncutoff

--- 1/2 Maximum Candela trace

× Maximum Candela point



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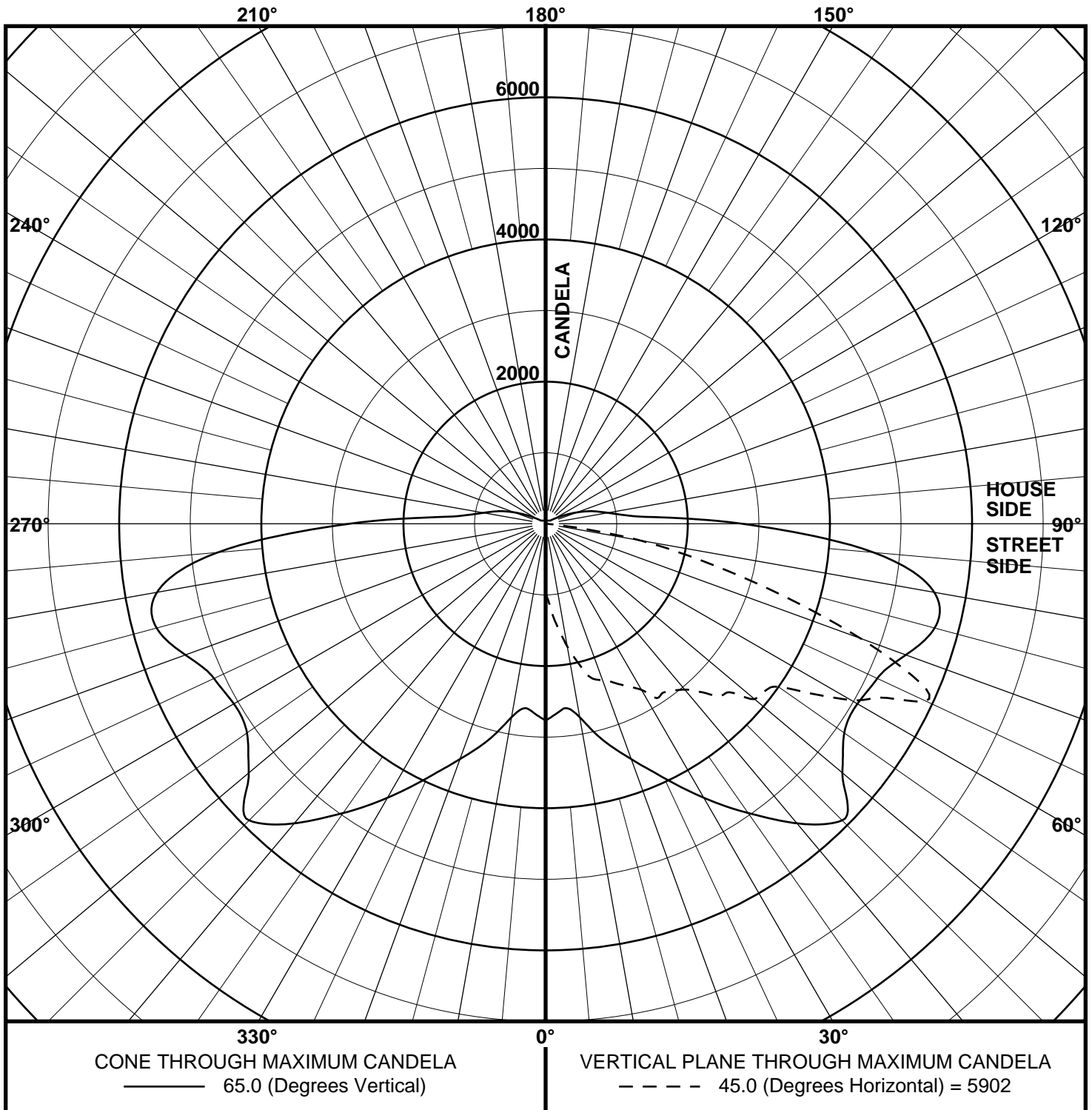
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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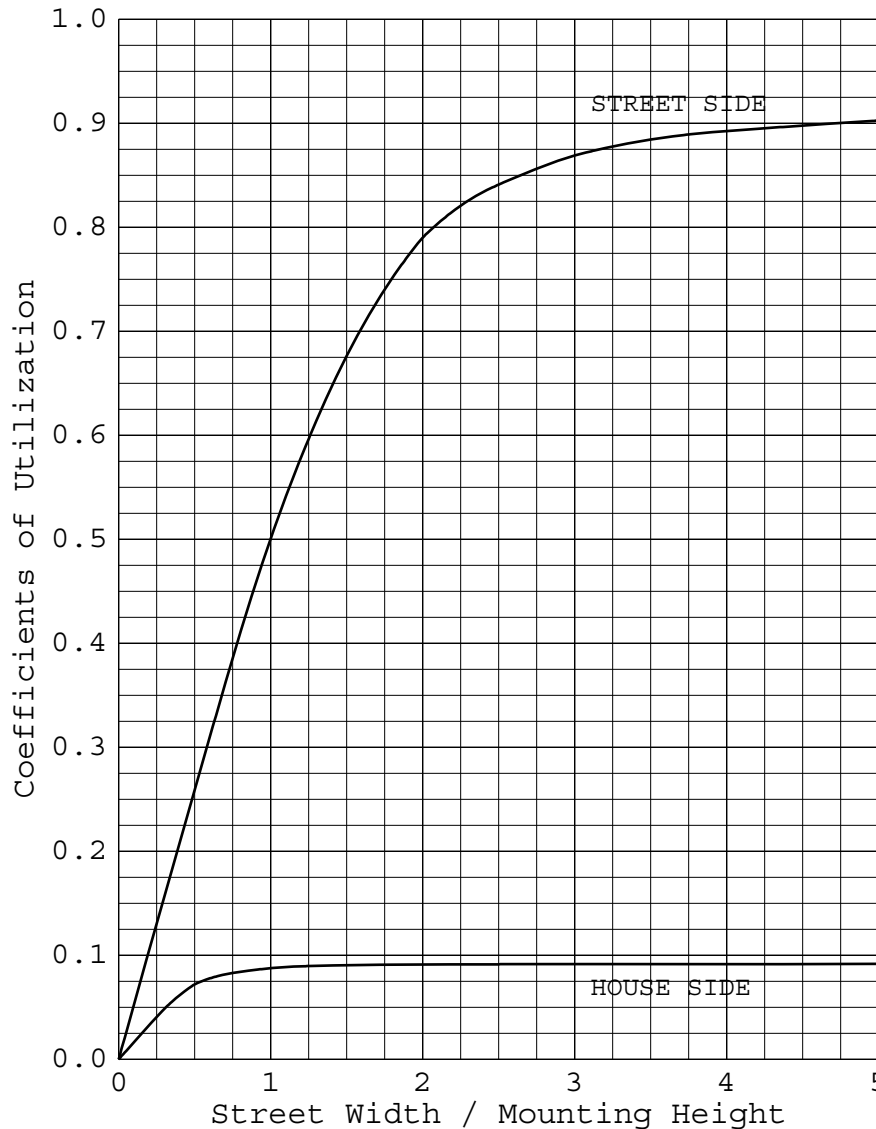
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	8505	90.8
DOWNWARD HOUSE SIDE	864	9.2
DOWNWARD TOTAL	9368	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	9368	100.0

EFFICACY = 117.2 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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BUG Rating			B1 U0 G2		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	8505			
FM	(30° – 60°)	902.8			
FH	(60° – 80°)	3927.2			
FVH	(80° – 90°)	3523.8			G2
		151.0			G2
Backward					
BL	(0° – 30°)	864			
BM	(30° – 60°)	9.2			
BH	(60° – 80°)	206.8	B1		
BVH	(80° – 90°)	445.0	B1		
		206.7	B1		G1
		5.0			G0
Upward					
UL	(90° – 100°)	0			
UH	(100° – 180°)	0.0		U0	
		0.0		U0	
Trapped Light					
Total Flux					
		0			
		9368			
		100.0			

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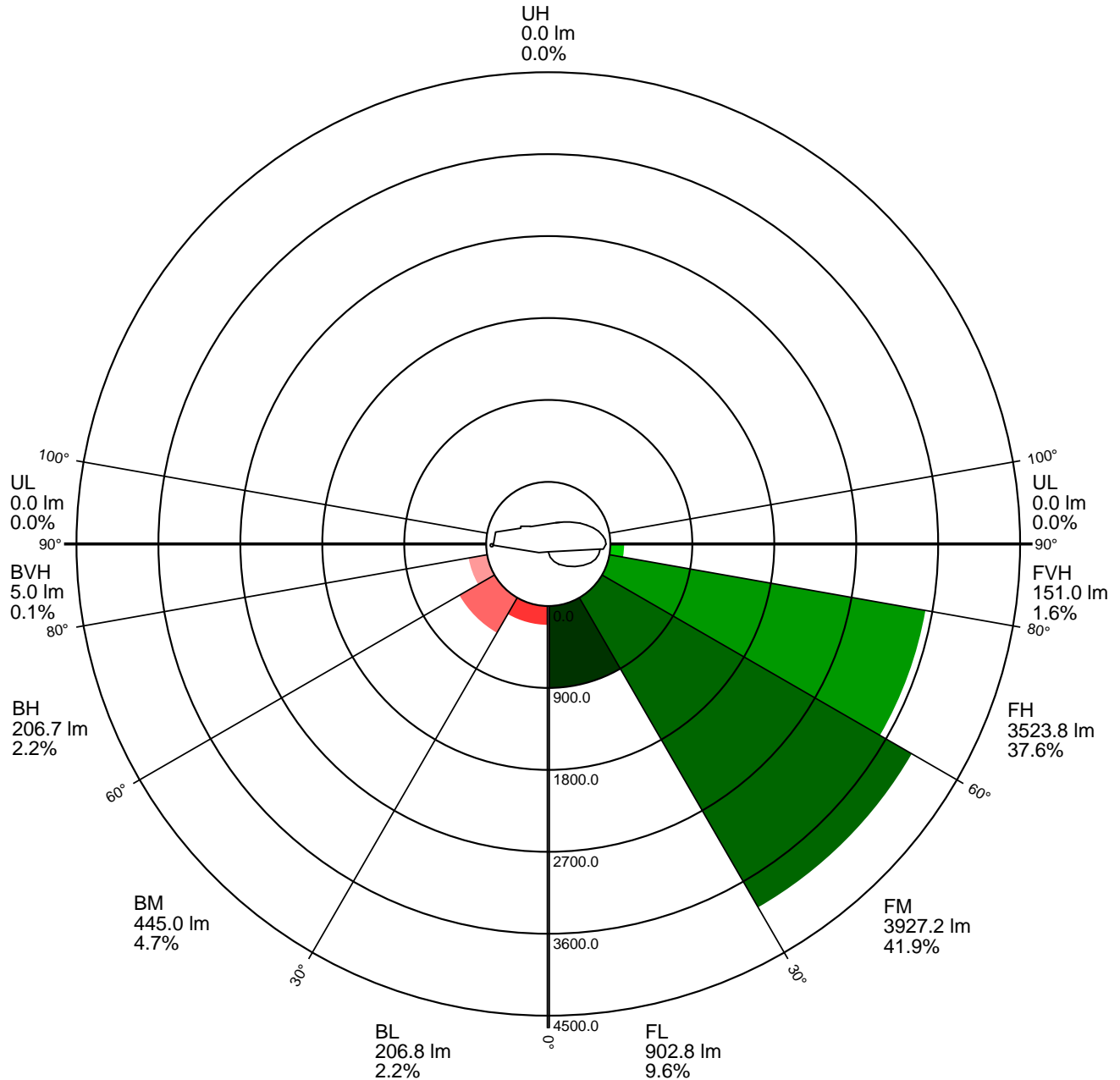
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Zonal Lumen Summary

(Linear scale)



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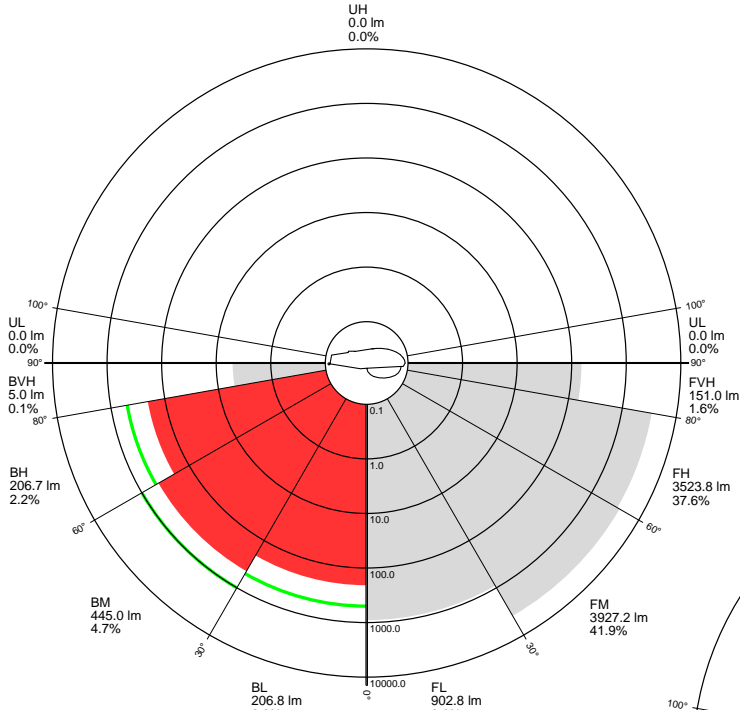
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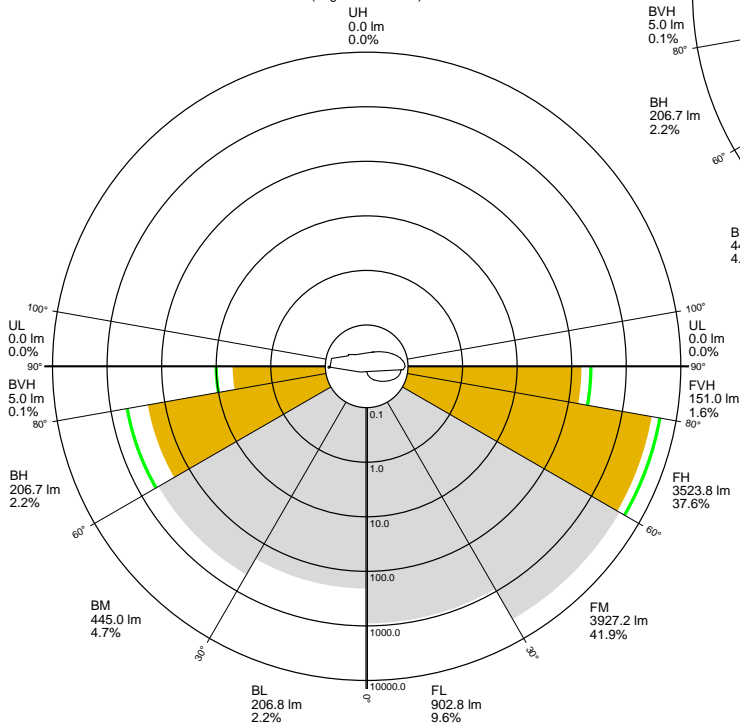
Backlight Rating Details

(Logarithmic scale)



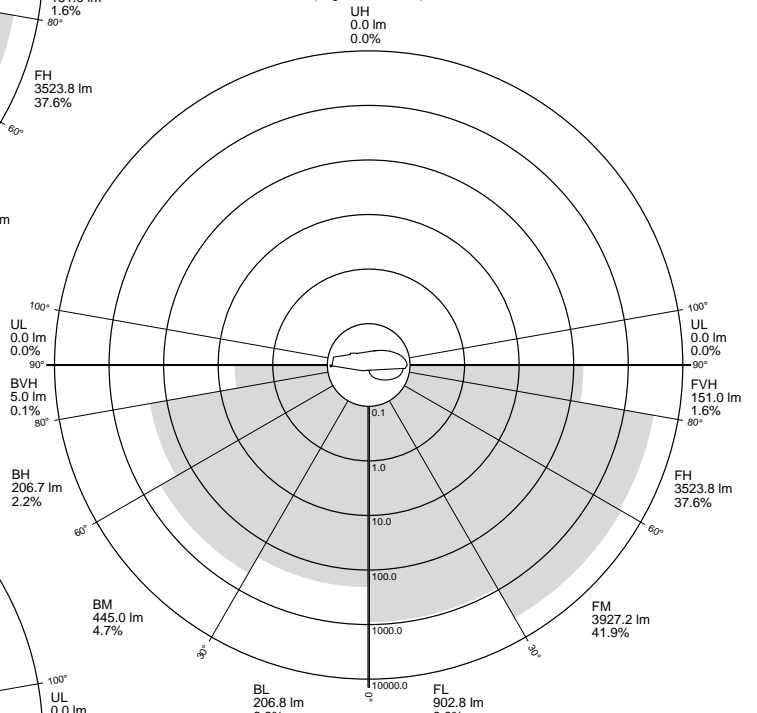
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



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CANDELA TABULATION

	STREET	SIDE										
		0.0	5.0	15.0	25.0	35.0	LATERAL ANGLE		50.0	55.0	65.0	75.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	3.	3.	5.	5.	12.	14.	11.	14.	15.	14.	8.
	85.0	19.	16.	42.	63.	104.	133.	168.	184.	199.	159.	17.
V	82.5	60.	89.	217.	259.	395.	539.	702.	876.	1008.	757.	139.
E	80.0	200.	253.	437.	667.	924.	1368.	1628.	1865.	1962.	1518.	581.
R	77.5	676.	700.	924.	1366.	1639.	2032.	2334.	2666.	3226.	2560.	1540.
T	75.0	1225.	1199.	1445.	1923.	2365.	2814.	3068.	3378.	4223.	3379.	2153.
I	72.5	1577.	1535.	1815.	2366.	2873.	3740.	4076.	4482.	5126.	4387.	2744.
C	70.0	1905.	1841.	2180.	2829.	3481.	4718.	5261.	5558.	5395.	5250.	3570.
A	67.5	2297.	2187.	2615.	3381.	4224.	5583.	5837.	5651.	5326.	5432.	4500.
L	65.0<<	2768.	2623.	3159.	3947.	4967.	5902.	5452.	5130.	5148.	5667.	4638.
	62.5	3393.	3262.	3846.	4645.	5539.	5292.	5176.	5077.	4858.	5669.	4496.
A	60.0	4290.	4178.	4669.	5394.	5237.	4962.	4779.	4656.	5031.	5338.	4182.
N	57.5	4936.	4897.	5060.	5078.	4527.	4450.	4263.	4340.	5429.	4877.	3825.
G	55.0	4596.	4604.	4391.	4176.	4079.	3996.	4063.	4126.	4655.	4372.	3488.
L	52.5	3772.	3793.	3750.	3773.	3598.	3876.	3875.	4143.	4218.	3839.	2983.
E	50.0	3394.	3438.	3446.	3359.	3285.	3837.	3737.	3862.	3947.	3586.	2509.
	47.5	3150.	3207.	3156.	3121.	3274.	3506.	3599.	3586.	3566.	3430.	2363.
	45.0	2981.	3033.	2960.	3020.	3230.	3428.	3467.	3366.	3286.	3259.	2219.
	42.5	2880.	2904.	2940.	3103.	3242.	3205.	3258.	3192.	3120.	2996.	2030.
	40.0	2898.	2898.	2921.	2987.	3090.	3045.	3117.	2977.	2927.	2848.	1896.
	37.5	2676.	2688.	2777.	3177.	2929.	2958.	2876.	2770.	2746.	2628.	1809.
	35.0	2827.	2841.	2959.	2916.	2928.	2895.	2810.	2718.	2702.	2420.	1727.
	32.5	2824.	2823.	2754.	2828.	2929.	2909.	2784.	2695.	2686.	2377.	1662.
	30.0	2876.	2844.	2813.	2828.	2807.	2697.	2675.	2623.	2607.	2338.	1604.
	25.0	2985.	2971.	2731.	2634.	2543.	2496.	2476.	2457.	2373.	1912.	1400.
	20.0	2724.	2749.	2602.	2475.	2376.	2347.	2327.	2281.	2037.	1645.	1219.
	15.0	2443.	2441.	2427.	2329.	2237.	2170.	2087.	1992.	1695.	1351.	1070.
	10.0	2160.	2175.	2154.	2060.	1910.	1748.	1638.	1547.	1385.	1163.	998.
	5.0	1526.	1538.	1498.	1473.	1395.	1335.	1281.	1230.	1142.	1052.	977.
	0.0	966.	966.	966.	966.	966.	966.	966.	966.	966.	966.	966.

||
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	8.	7.	8.	7.	7.	6.	5.	4.	3.	3. 4.
	85.0	10.	9.	8.	8.	7.	6.	5.	4.	3.	3. 3.
V	82.5	67.	29.	16.	9.	7.	6.	5.	3.	4.	4. 3.
E	80.0	324.	138.	25.	24.	8.	5.	5.	4.	4.	4. 4.
R	77.5	778.	453.	69.	37.	10.	6.	5.	4.	5.	5. 5.
T	75.0	1119.	524.	148.	41.	18.	8.	5.	4.	5.	5. 5.
I	72.5	1494.	713.	187.	86.	53.	12.	7.	5.	5.	5. 5.
C	70.0	2172.	937.	452.	149.	59.	13.	17.	7.	7.	7. 7.
A	67.5	2580.	1121.	694.	210.	63.	23.	13.	8.	8.	8. 8.
L	65.0<<	2767.	1231.	684.	277.	76.	49.	23.	9.	9.	9. 9.
	62.5	2773.	1299.	724.	346.	99.	66.	44.	16.	10.	8. 7.
A	60.0	2454.	1313.	837.	438.	130.	95.	54.	23.	11.	7. 7.
N	57.5	2318.	1294.	794.	427.	159.	116.	64.	30.	14.	8. 7.
G	55.0	2179.	1300.	727.	426.	189.	123.	72.	39.	17.	8. 8.
L	52.5	1972.	1280.	652.	446.	265.	134.	80.	46.	22.	11. 8.
E	50.0	1793.	1270.	617.	550.	363.	174.	89.	50.	28.	34. 34.
	47.5	1716.	1240.	638.	469.	367.	194.	102.	56.	34.	37. 62.
	45.0	1682.	1167.	651.	480.	341.	208.	122.	65.	45.	39. 35.
	42.5	1658.	1252.	641.	475.	364.	220.	132.	118.	56.	33. 29.
	40.0	1562.	1329.	716.	472.	385.	231.	146.	99.	83.	49. 35.
	37.5	1491.	1313.	1058.	497.	382.	249.	162.	111.	94.	70. 59.
	35.0	1440.	1262.	1105.	752.	423.	305.	179.	124.	101.	75. 66.
	32.5	1412.	1216.	954.	733.	536.	370.	208.	132.	101.	76. 65.
	30.0	1316.	1166.	870.	622.	471.	351.	308.	153.	105.	82. 72.
	25.0	1166.	1054.	781.	598.	413.	309.	237.	183.	137.	122. 120.
	20.0	1062.	970.	765.	634.	457.	333.	243.	192.	180.	185. 186.
	15.0	957.	883.	769.	636.	561.	490.	391.	324.	290.	256. 240.
	10.0	924.	861.	768.	699.	628.	575.	530.	495.	444.	415. 405.
	5.0	944.	908.	840.	791.	747.	721.	690.	663.	635.	635. 628.
	0.0	966.	966.	966.	966.	966.	966.	966.	966.	966.	966. 966.

CONE OF MAXIMUM CANDELA

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	24
5- 10	77
10- 15	143
15- 20	211
20- 25	286
25- 30	370
30- 35	457
35- 40	530
40- 45	618
45- 50	730
50- 55	898
55- 60	1140
60- 65	1218
65- 70	1140
70- 75	871
75- 80	501
80- 85	146
85- 90	10
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
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	101
0- 20	454
0- 30	1110
0- 40	2096
0- 50	3444
0- 60	5482
0- 70	7840
0- 80	9212
0- 90	9368
0-100	9368
0-110	9368
0-120	9368
0-130	9368
0-140	9368
0-150	9368
0-160	9368
0-170	9368
0-180	9368