

**REPORT NUMBER:** PRORATED FROM RAB04361

**PAGE:** 1 OF 10

**ISSUE DATE:** 05/10/18

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T78Y/480 - RWLED4T78Y/480 - RWLED4T78SFY/480 -  
WPLED4T78Y/480 (TYPE IV)

**LUMINAIRE:** CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED,  
MOLDED 2-PIECE 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 LEDES TILTED  
56-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 18-DEGREES FROM  
STRAIGHT AHEAD, 2 LEDES TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION  
AND CANTED 16-DEGREES FROM STRAIGHT AHEAD, 2 LEDES TILTED 57-DEGREES FROM  
VERTICAL BASE-UP POSITION AND CANTED 22-DEGREES FROM STRAIGHT AHEAD.

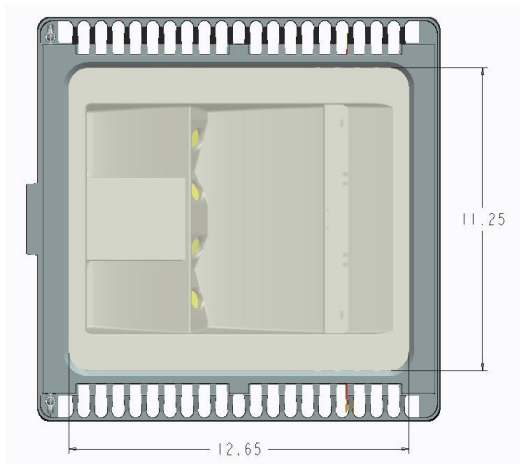
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04361 WHICH WAS  
ALED4T125Y/480. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 79.3 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

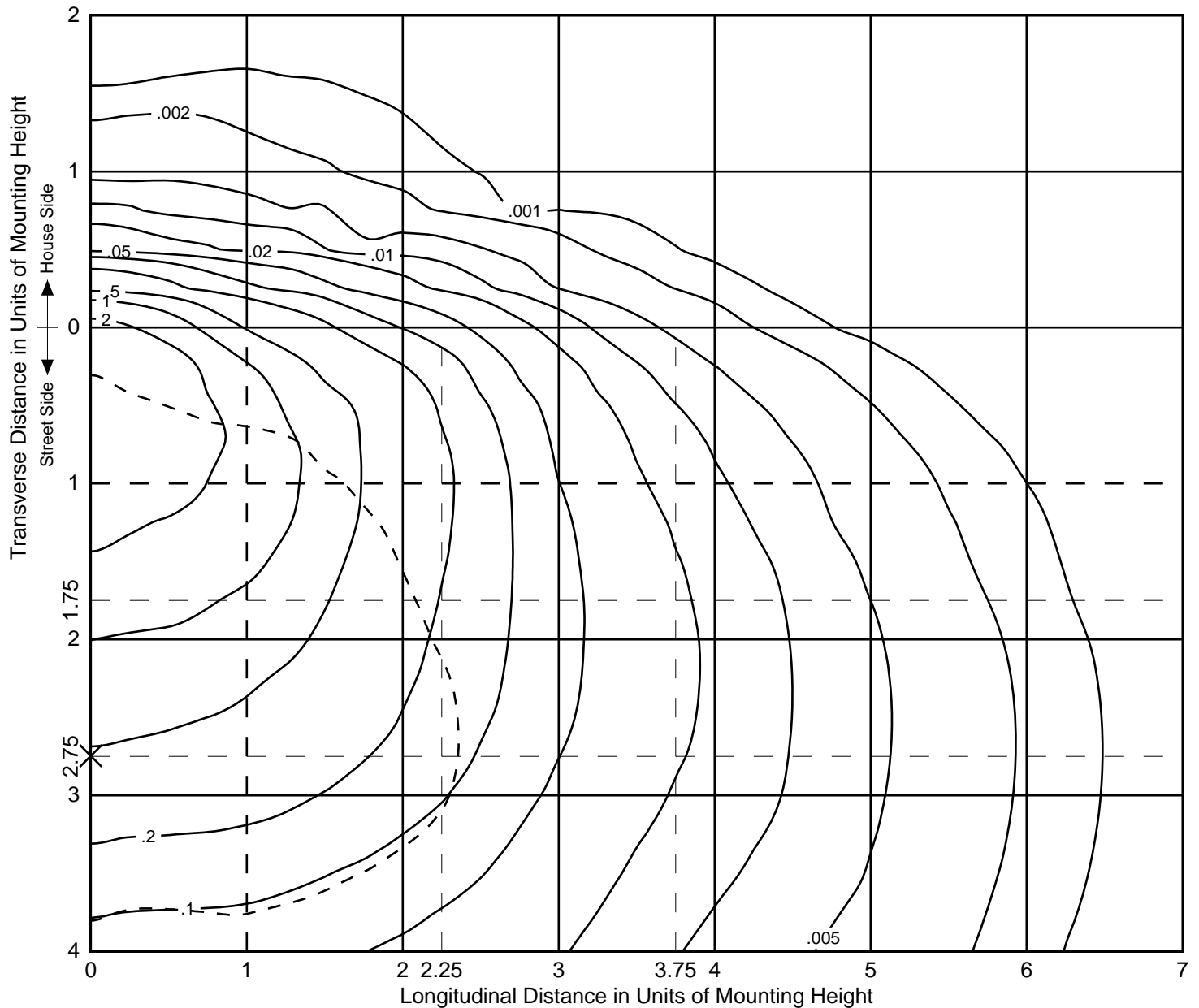
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — 1/2 Maximum Candela trace

× Maximum Candela point



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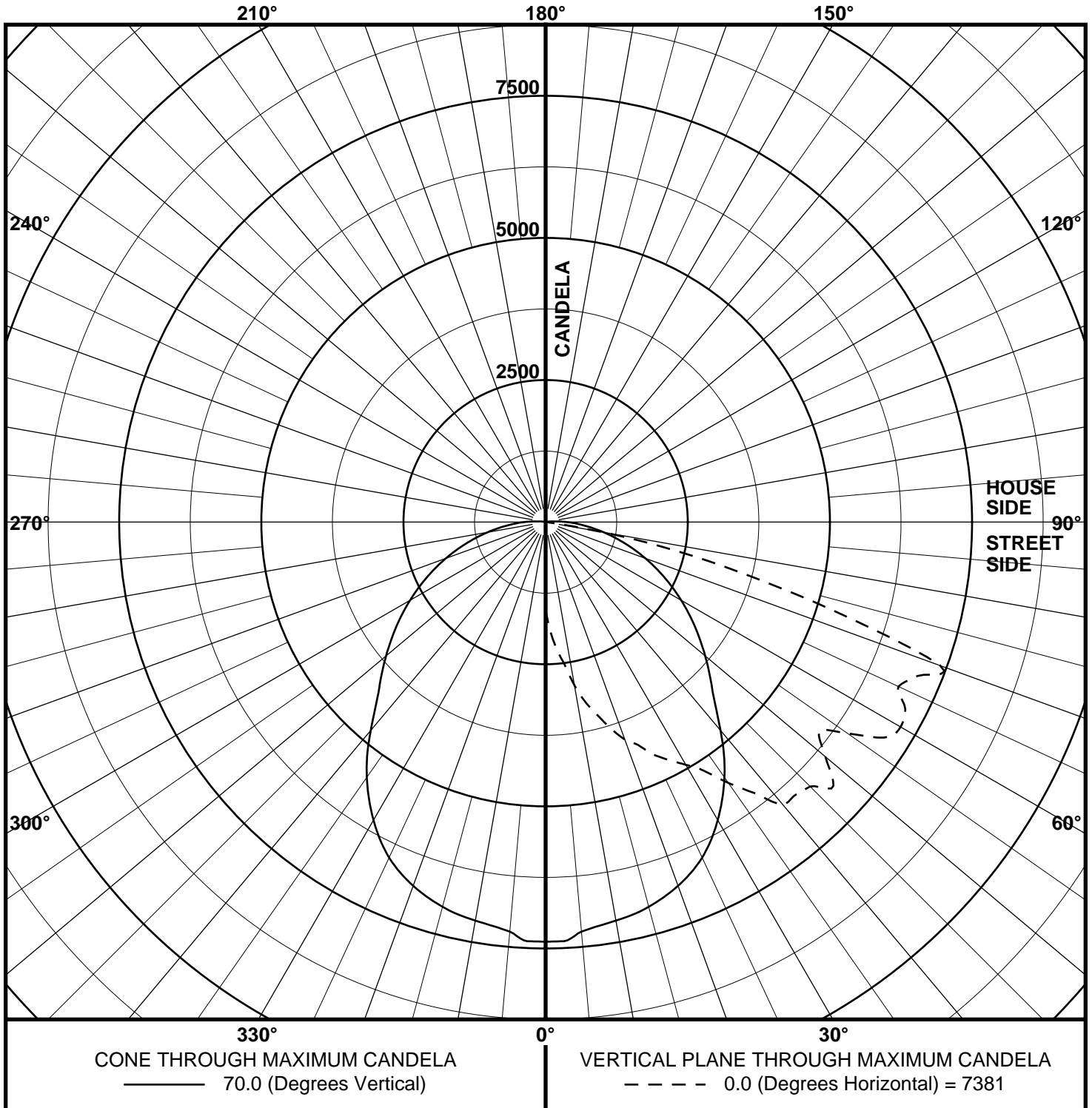
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### MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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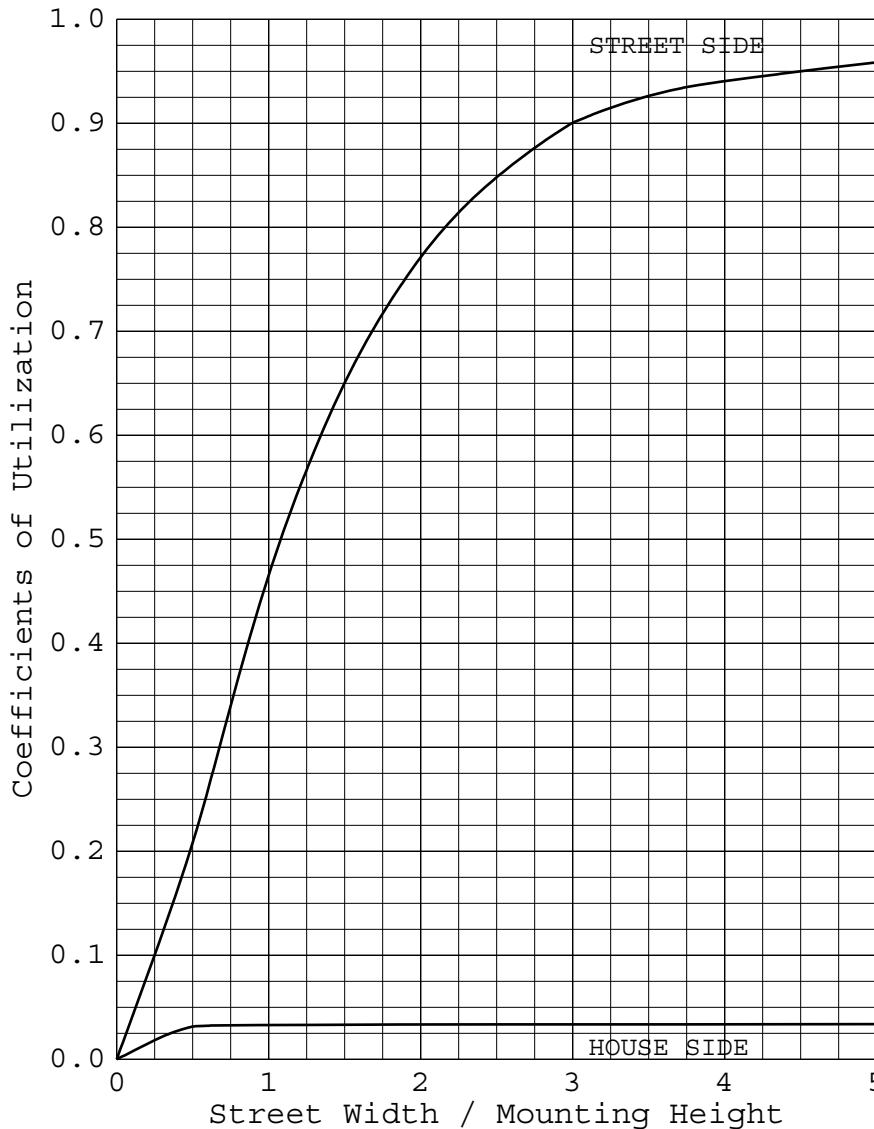
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### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	9543	96.5
DOWNWARD HOUSE SIDE	342	3.5
DOWNWARD TOTAL	9885	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	9885	100.0

EFFICACY = 124.7 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		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		9543	96.5			
FL	(0° – 30°)	1195.7	12.1			
FM	(30° – 60°)	4670.4	47.2			
FH	(60° – 80°)	3587.1	36.3			G2
FVH	(80° – 90°)	89.7	0.9			G1
Backward		342	3.5			
BL	(0° – 30°)	185.8	1.9	B1		
BM	(30° – 60°)	122.5	1.2	B0		
BH	(60° – 80°)	29.4	0.3	B0		G0
BVH	(80° – 90°)	4.1	0.0			G0
Upward		0	0.0			
UL	(90° – 100°)	0.0	0.0		U0	
UH	(100° – 180°)	0.0	0.0		U0	
Trapped Light		0	0.0			
Total Flux		9885	100.0			

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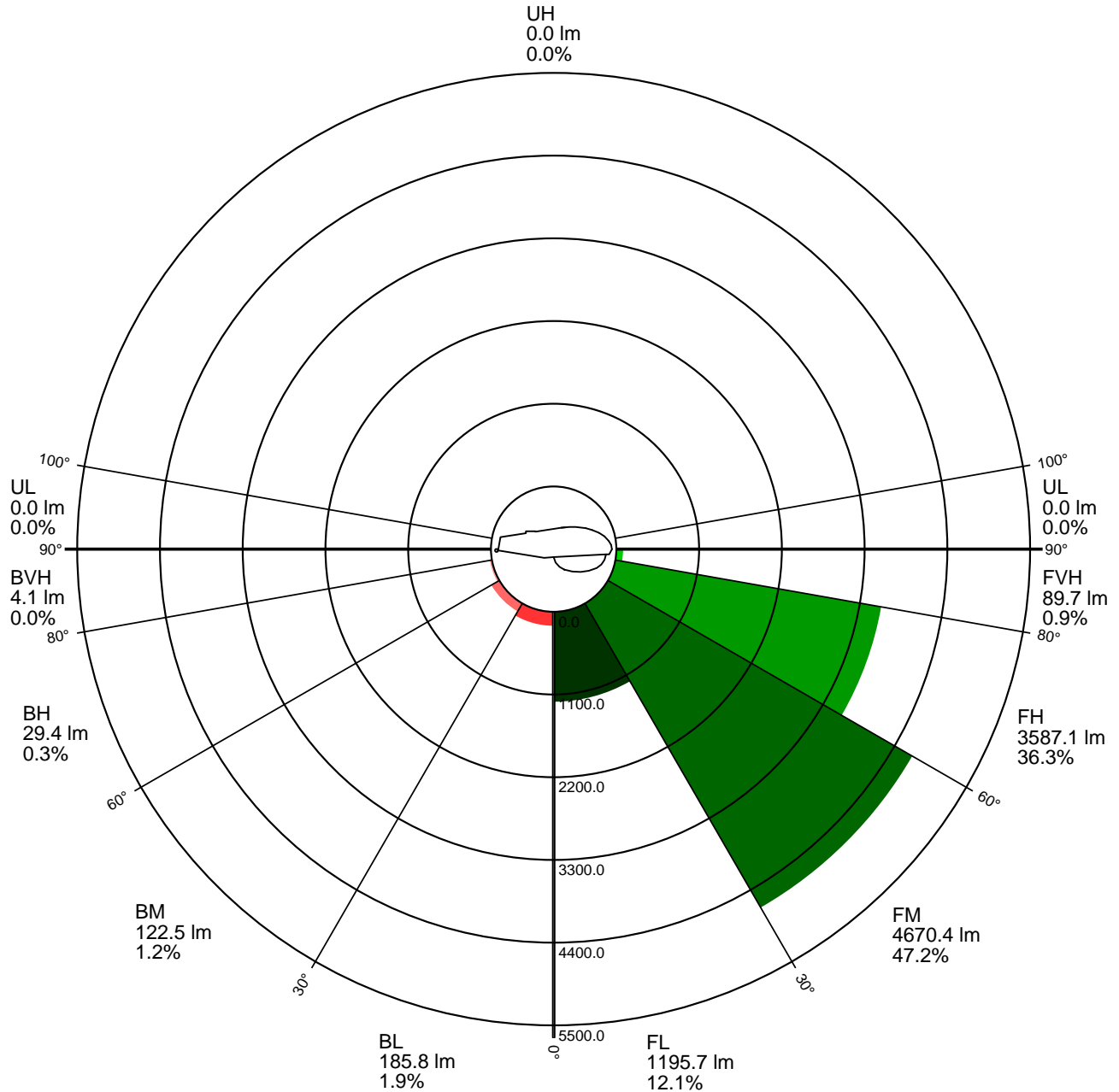
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## Zonal Lumen Summary

(Linear scale)



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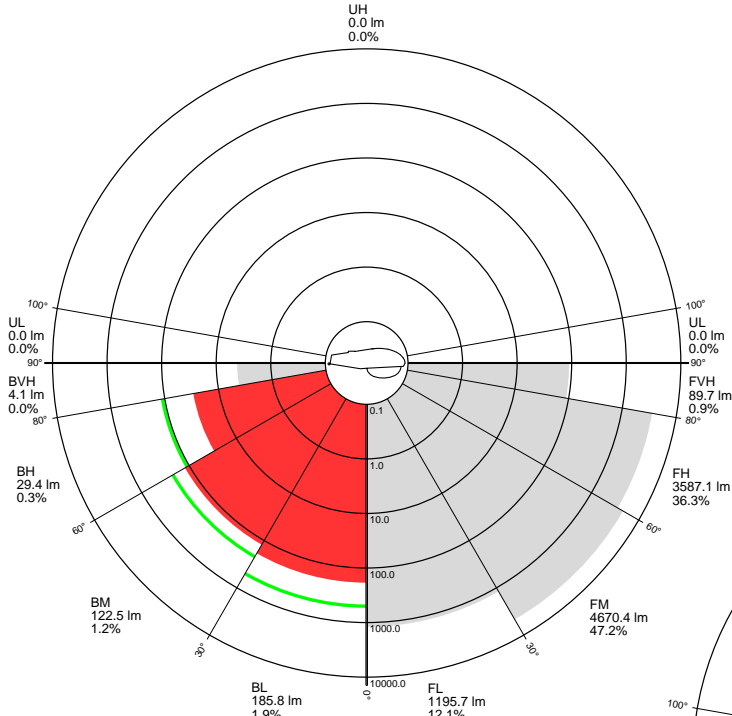
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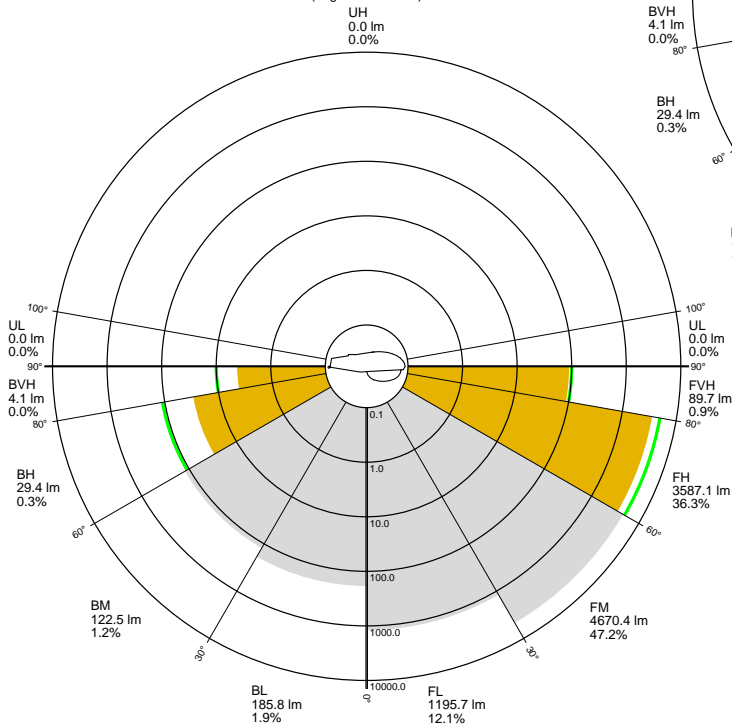
### Backlight Rating Details

(Logarithmic scale)



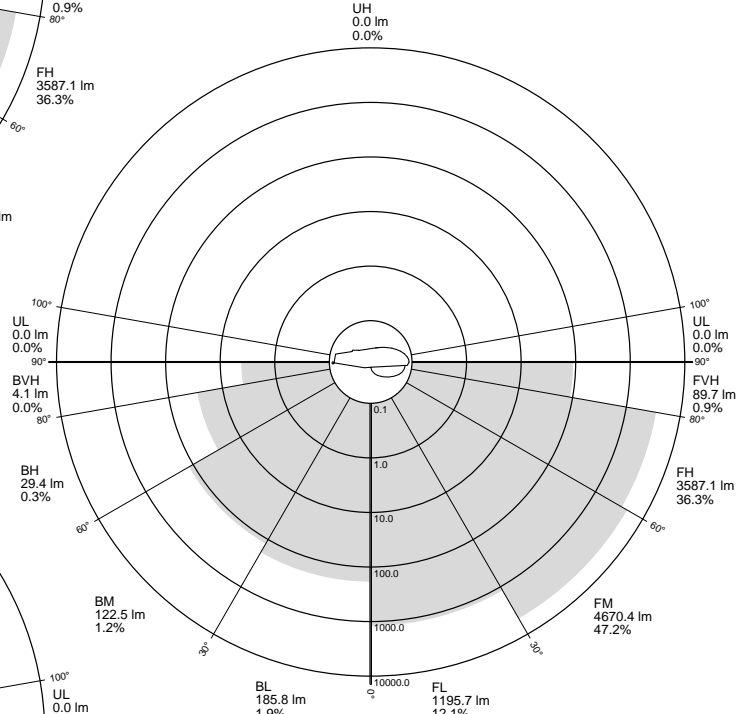
### Glare Rating Details

(Logarithmic scale)



### Uplight Rating Details

(Logarithmic scale)



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### CANDELA TABULATION

	STREET SIDE										
	0.0	2.5	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0
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	11.	11.	10.	10.	9.	9.	10.	12.	12.	11.	12.
85.0	28.	27.	26.	58.	99.	74.	47.	38.	46.	20.	13.
V 82.5	102.	97.	87.	173.	298.	379.	334.	235.	151.	67.	25.
E 80.0	995.	958.	896.	1127.	1311.	1187.	958.	895.	589.	281.	106.
R 77.5	2401.	2345.	2268.	2615.	2609.	2427.	1814.	1474.	968.	483.	206.
T 75.0	3839.	3763.	3645.	4024.	4079.	4009.	3134.	2002.	1215.	643.	299.
I 72.5	5589.	5491.	5321.	5825.	5949.	5132.	3837.	2602.	1624.	885.	436.
C 70.0<<	7381.	7381.	7233.	7008.	6512.	5485.	4142.	3204.	2306.	1440.	677.
A 67.5	7076.	6931.	6818.	6715.	6314.	5802.	4479.	3553.	2839.	1915.	1003.
L 65.0	6848.	6769.	6597.	6785.	6402.	5971.	4673.	3826.	3072.	2279.	1207.
62.5	7133.	7001.	6742.	6859.	6456.	6206.	5148.	3878.	3103.	2448.	1228.
A 60.0	7209.	6985.	6657.	6618.	6493.	6437.	5612.	4186.	3061.	2407.	1136.
N 57.5	7055.	6805.	6433.	6267.	6166.	5721.	5501.	4504.	3086.	2255.	1088.
G 55.0	6483.	6291.	5977.	5813.	5659.	5331.	5471.	4553.	3113.	2128.	1114.
L 52.5	6060.	5953.	5714.	5525.	5466.	5178.	5085.	4205.	3042.	2039.	1107.
E 50.0	6423.	6338.	6175.	6009.	5714.	5003.	4854.	3955.	2965.	2070.	1145.
47.5	6867.	6789.	6585.	6034.	5598.	5235.	4473.	3687.	2872.	2088.	1145.
45.0	6579.	6539.	6395.	5898.	5721.	5100.	4140.	3423.	2780.	2023.	1197.
42.5	6507.	6487.	6407.	6083.	5633.	4634.	3928.	3304.	2722.	1964.	1273.
40.0	6485.	6454.	6374.	5992.	5143.	4388.	3802.	3297.	2704.	1930.	1308.
37.5	5999.	5962.	5892.	5486.	4793.	4196.	3700.	3244.	2701.	1997.	1341.
35.0	5603.	5570.	5486.	5048.	4529.	4018.	3648.	3184.	2627.	2014.	1424.
32.5	5190.	5166.	5097.	4674.	4294.	3861.	3513.	3127.	2561.	1980.	1474.
30.0	4930.	4908.	4850.	4397.	4133.	3736.	3375.	3004.	2540.	1976.	1530.
25.0	4520.	4514.	4475.	4088.	3803.	3490.	3165.	2828.	2463.	1997.	1609.
20.0	4072.	4070.	4051.	3844.	3559.	3273.	2987.	2673.	2290.	1952.	1590.
15.0	3514.	3506.	3496.	3389.	3192.	2951.	2715.	2435.	2165.	1962.	1618.
10.0	2915.	2904.	2916.	2811.	2702.	2520.	2356.	2208.	2063.	1865.	1610.
5.0	2246.	2256.	2249.	2225.	2182.	2126.	2065.	1963.	1848.	1728.	1585.
0.0	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.

||  
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	12.	12.	11.	11.	10.	10.	9.	7.	6.	5. 5.
	85.0	13.	12.	11.	11.	10.	9.	8.	6.	5.	3. 3.
V	82.5	18.	15.	12.	11.	10.	9.	7.	6.	3.	2. 2.
E	80.0	43.	17.	13.	10.	9.	8.	7.	5.	3.	1. 1.
R	77.5	83.	28.	14.	11.	9.	8.	6.	5.	3.	1. 1.
T	75.0	155.	49.	14.	11.	9.	7.	6.	5.	2.	1. 0.
I	72.5	233.	72.	15.	12.	9.	7.	6.	4.	2.	1. 0.
C	70.0<<	370.	124.	17.	13.	10.	7.	6.	4.	2.	1. 0.
A	67.5	556.	164.	23.	13.	11.	8.	6.	4.	2.	1. 0.
L	65.0	673.	210.	31.	14.	11.	9.	6.	4.	2.	1. 0.
	62.5	679.	250.	36.	14.	11.	9.	8.	4.	2.	1. 0.
A	60.0	695.	303.	33.	27.	10.	9.	8.	6.	2.	1. 0.
N	57.5	810.	343.	50.	29.	11.	9.	8.	7.	5.	3. 4.
G	55.0	837.	400.	72.	26.	13.	10.	9.	7.	6.	6. 5.
L	52.5	810.	449.	101.	25.	14.	10.	11.	9.	6.	6. 6.
E	50.0	801.	444.	131.	28.	21.	11.	9.	13.	9.	7. 6.
	47.5	793.	454.	151.	40.	27.	12.	9.	7.	6.	6. 6.
	45.0	825.	504.	198.	44.	30.	16.	11.	6.	6.	5. 6.
	42.5	910.	571.	241.	46.	30.	25.	11.	9.	6.	5. 6.
	40.0	954.	630.	245.	68.	31.	29.	19.	12.	7.	6. 7.
	37.5	991.	677.	276.	110.	29.	27.	32.	24.	13.	10. 11.
	35.0	1054.	731.	313.	175.	33.	29.	38.	37.	26.	22. 23.
	32.5	1103.	781.	363.	207.	45.	32.	33.	36.	36.	35. 38.
	30.0	1170.	858.	447.	228.	100.	35.	30.	29.	32.	34. 40.
	25.0	1288.	997.	615.	334.	237.	121.	40.	31.	29.	31. 32.
	20.0	1320.	1073.	734.	484.	312.	227.	163.	105.	66.	57. 52.
	15.0	1408.	1196.	946.	668.	485.	351.	292.	254.	225.	214. 210.
	10.0	1471.	1335.	1104.	968.	773.	654.	564.	500.	464.	456. 445.
	5.0	1517.	1448.	1334.	1236.	1148.	1095.	1049.	1018.	975.	939. 950.
	0.0	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.	1554.

CONE OF MAXIMUM CANDELA

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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	37
5- 10	111
10- 15	186
15- 20	265
20- 25	348
25- 30	434
30- 35	528
35- 40	643
40- 45	758
45- 50	860
50- 55	935
55- 60	1069
60- 65	1143
65- 70	1117
70- 75	907
75- 80	450
80- 85	87
85- 90	6
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	148
0- 20	599
0- 30	1382
0- 40	2552
0- 50	4171
0- 60	6174
0- 70	8434
0- 80	9791
0- 90	9885
0-100	9885
0-110	9885
0-120	9885
0-130	9885
0-140	9885
0-150	9885
0-160	9885
0-170	9885
0-180	9885