

**REPORT NUMBER:** PRORATED FROM RAB04361

**PAGE:** 1 OF 10

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

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T78/480 - RWLED4T78/480 - RWLED4T78SF/480 -  
WPLED4T78/480 (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 LEDs TILTED  
56-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 18-DEGREES FROM  
STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION  
AND CANTED 16-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM  
VERTICAL BASE-UP POSITION AND CANTED 22-DEGREES FROM STRAIGHT AHEAD.

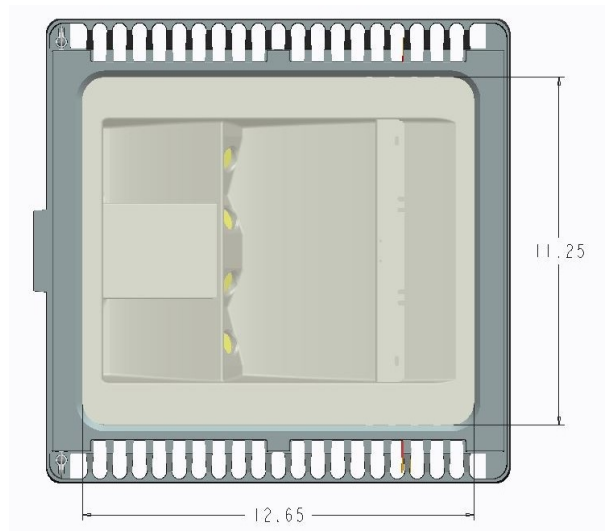
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04361 WHICH WAS  
ALED4T125Y/480. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 79.2 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

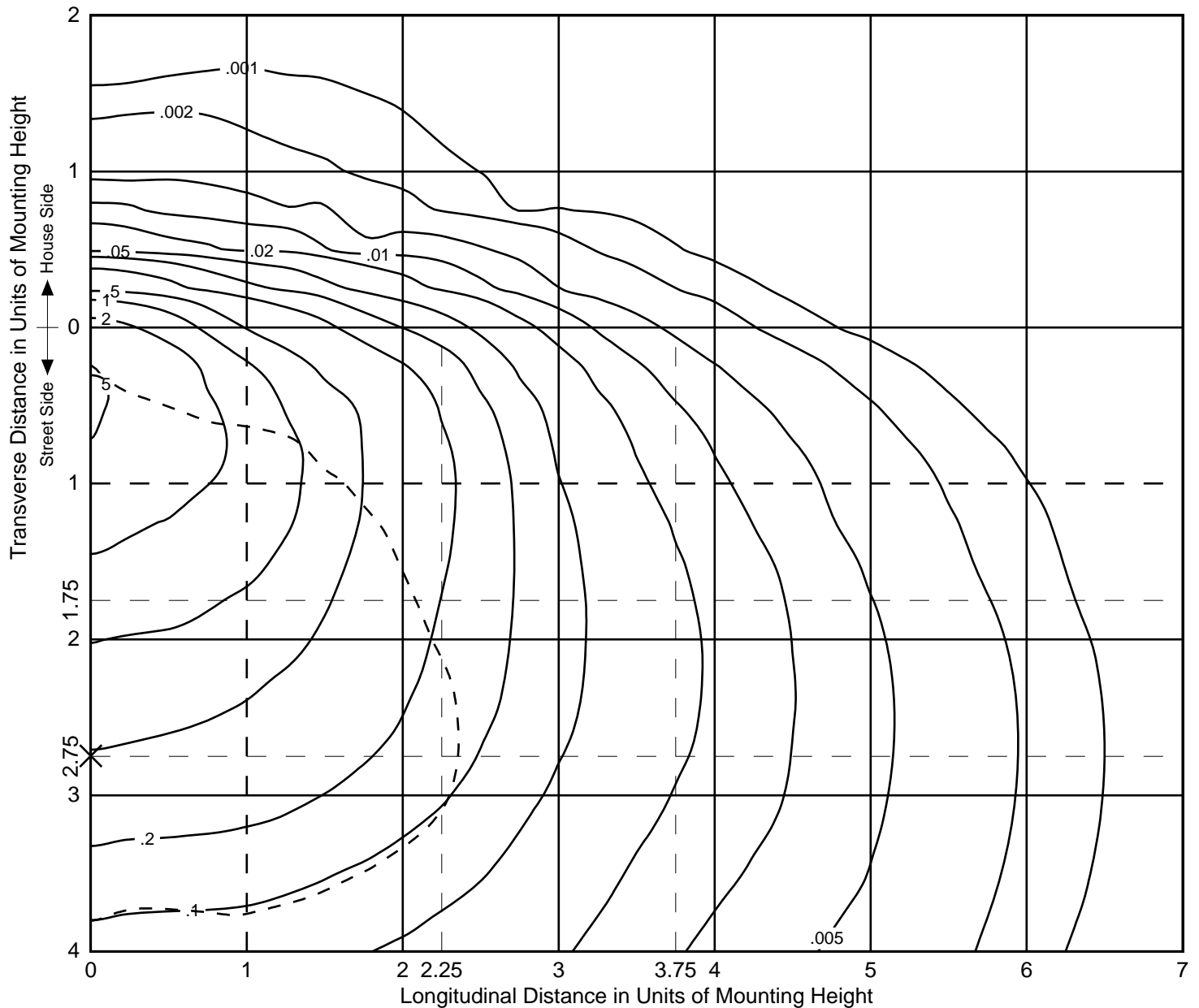
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



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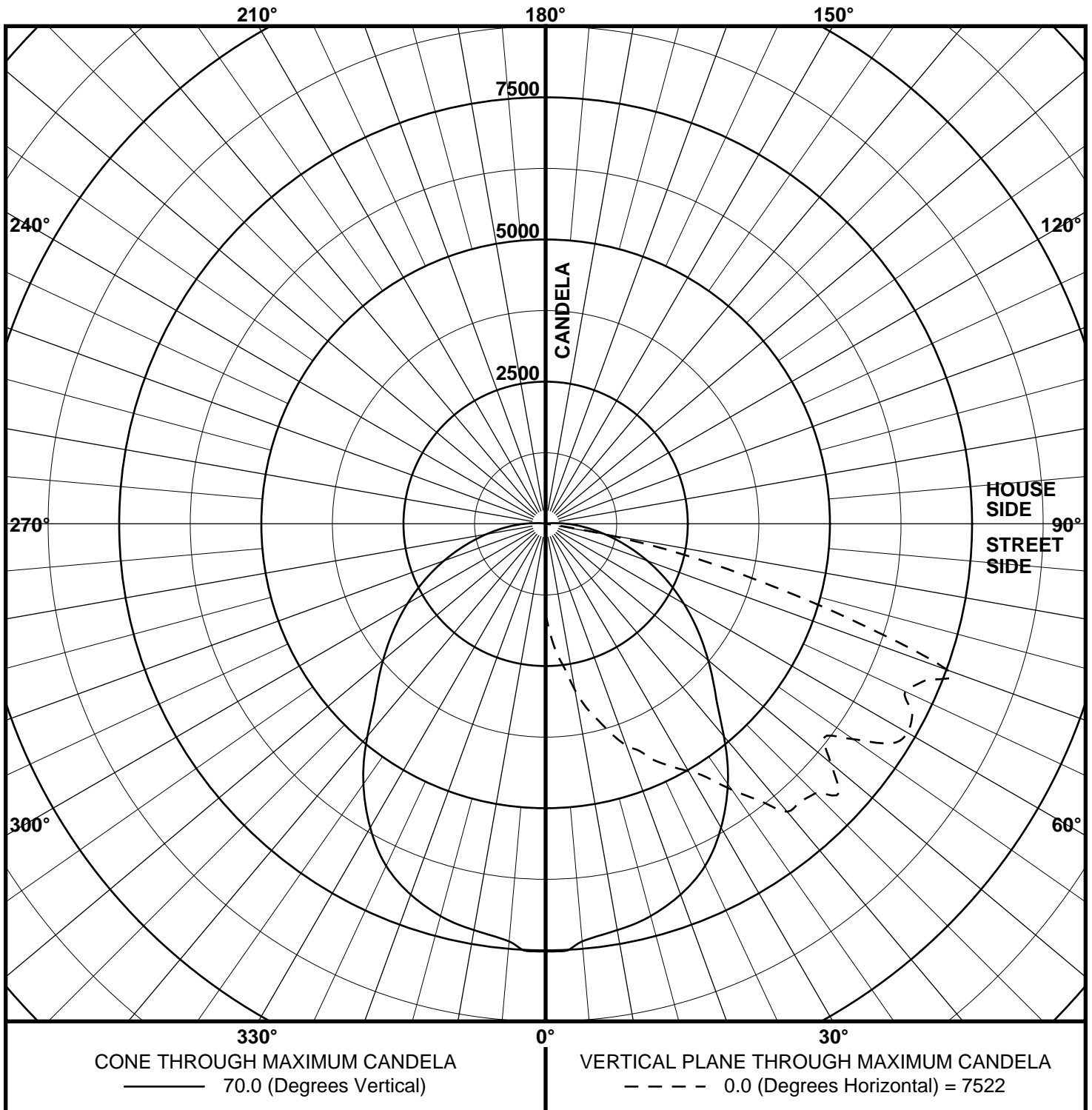
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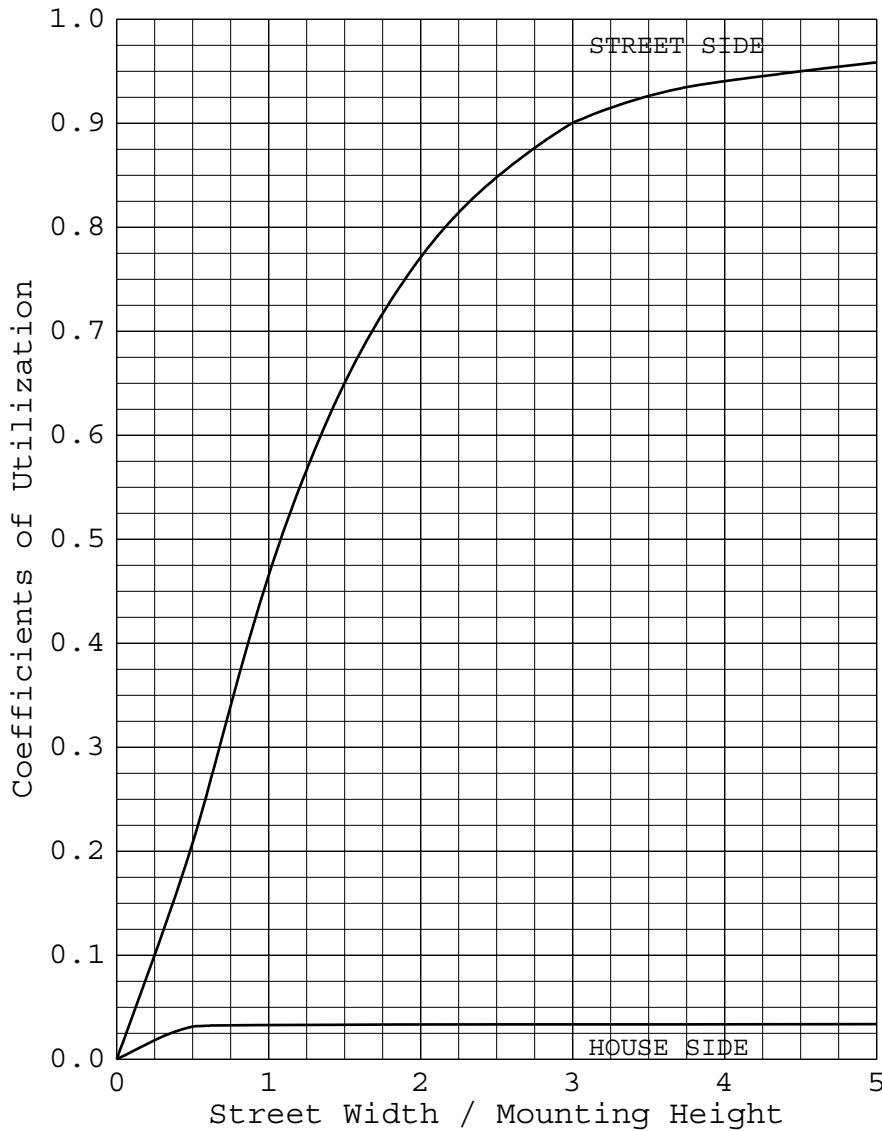
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**MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA**



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### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	9724	96.5
DOWNWARD HOUSE SIDE	348	3.5
DOWNWARD TOTAL	10073	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	10073	100.0

EFFICACY = 127.2 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

#### Zonal Summary

Lumens

% of Fixture

B1 U0 G2

Zone Ratings

B U G

Forward		9724	96.5			
FL	(0° – 30°)	1218.5	12.1			
FM	(30° – 60°)	4759.2	47.2			
FH	(60° – 80°)	3655.3	36.3			G2
FVH	(80° – 90°)	91.4	0.9			G1
Backward		348	3.5			
BL	(0° – 30°)	189.3	1.9	B1		
BM	(30° – 60°)	124.8	1.2	B0		
BH	(60° – 80°)	30.0	0.3	B0		G0
BVH	(80° – 90°)	4.2	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		10073	100.0			

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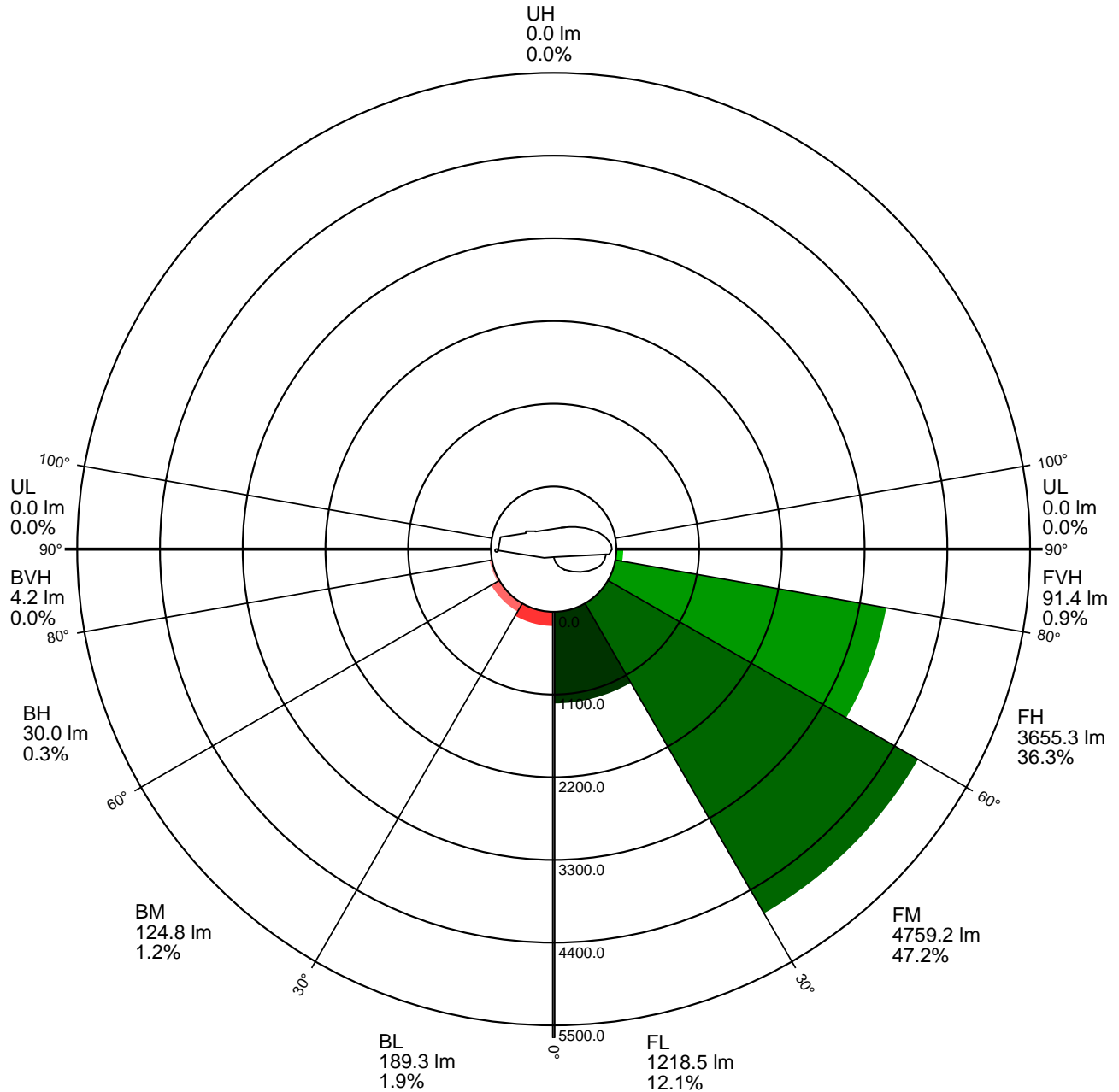
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## Zonal Lumen Summary

(Linear scale)



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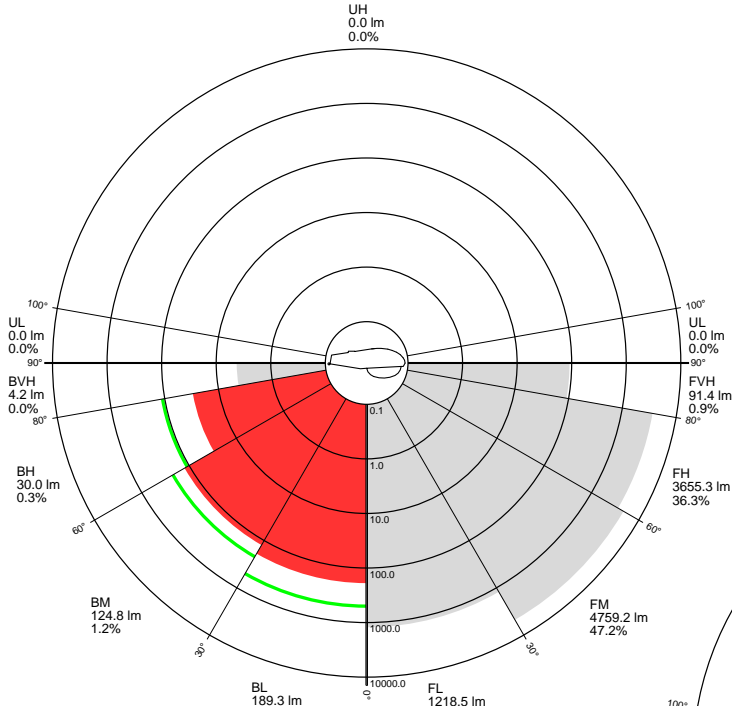
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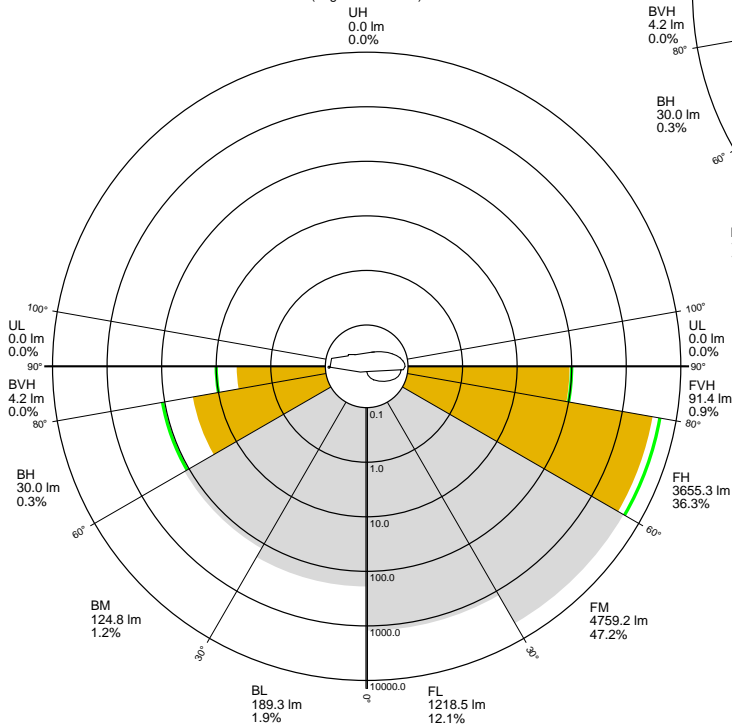
### Backlight Rating Details

(Logarithmic scale)



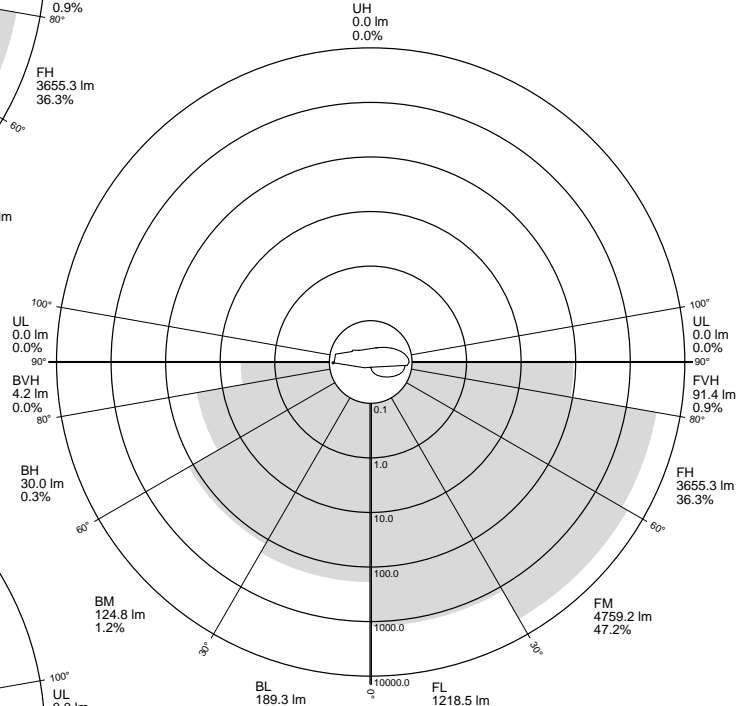
### Glare Rating Details

(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.	11.	9.	9.	11.	12.	12.	12.	12.
85.0	29.	28.	26.	59.	101.	75.	48.	39.	47.	20.	13.
V 82.5	104.	98.	88.	176.	303.	386.	341.	239.	154.	68.	25.
E 80.0	1014.	976.	913.	1149.	1336.	1210.	977.	912.	600.	286.	108.
R 77.5	2447.	2389.	2311.	2664.	2659.	2474.	1848.	1502.	986.	492.	210.
T 75.0	3912.	3834.	3715.	4100.	4156.	4085.	3194.	2040.	1238.	655.	304.
I 72.5	5695.	5595.	5422.	5936.	6062.	5230.	3910.	2652.	1655.	902.	444.
C 70.0<<	7522.	7522.	7370.	7141.	6636.	5589.	4221.	3265.	2350.	1468.	690.
A 67.5	7211.	7063.	6947.	6842.	6434.	5913.	4564.	3621.	2893.	1951.	1022.
L 65.0	6978.	6897.	6723.	6914.	6524.	6084.	4762.	3899.	3130.	2323.	1229.
62.5	7269.	7135.	6870.	6990.	6579.	6324.	5246.	3952.	3162.	2494.	1252.
A 60.0	7346.	7118.	6783.	6743.	6617.	6560.	5718.	4266.	3119.	2453.	1158.
N 57.5	7189.	6935.	6556.	6386.	6283.	5830.	5605.	4589.	3145.	2297.	1109.
G 55.0	6606.	6411.	6091.	5924.	5766.	5433.	5575.	4640.	3172.	2169.	1135.
L 52.5	6176.	6066.	5822.	5630.	5570.	5276.	5181.	4285.	3099.	2078.	1128.
E 50.0	6546.	6458.	6293.	6123.	5823.	5098.	4947.	4030.	3021.	2109.	1167.
47.5	6998.	6918.	6710.	6149.	5705.	5335.	4558.	3757.	2926.	2128.	1167.
45.0	6704.	6664.	6516.	6010.	5830.	5197.	4218.	3488.	2833.	2061.	1220.
42.5	6630.	6610.	6529.	6198.	5741.	4722.	4003.	3366.	2773.	2001.	1297.
40.0	6609.	6577.	6495.	6106.	5241.	4472.	3874.	3360.	2755.	1967.	1333.
37.5	6113.	6075.	6004.	5590.	4885.	4276.	3770.	3306.	2753.	2035.	1366.
35.0	5709.	5676.	5591.	5144.	4615.	4094.	3717.	3245.	2677.	2053.	1451.
32.5	5289.	5265.	5194.	4763.	4375.	3935.	3580.	3186.	2609.	2018.	1502.
30.0	5023.	5001.	4942.	4481.	4211.	3807.	3439.	3061.	2588.	2013.	1559.
25.0	4606.	4599.	4560.	4166.	3875.	3556.	3225.	2882.	2510.	2035.	1640.
20.0	4149.	4147.	4128.	3917.	3626.	3335.	3044.	2724.	2334.	1989.	1620.
15.0	3581.	3573.	3562.	3453.	3253.	3008.	2766.	2481.	2206.	1999.	1649.
10.0	2971.	2960.	2972.	2864.	2753.	2568.	2400.	2250.	2102.	1900.	1641.
5.0	2289.	2299.	2292.	2267.	2223.	2166.	2105.	2000.	1883.	1761.	1615.
0.0	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.

||  
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.	12.	11.	11.	10.	9.	7.	6.	5. 5.
	85.0	13.	12.	12.	11.	10.	9.	8.	6.	5.	4. 4.
V	82.5	18.	15.	12.	11.	10.	9.	8.	6.	4.	2. 2.
E	80.0	43.	18.	13.	11.	9.	8.	7.	5.	3.	1. 1.
R	77.5	84.	29.	15.	11.	9.	8.	6.	5.	3.	1. 1.
T	75.0	157.	50.	15.	12.	9.	8.	6.	5.	2.	1. 0.
I	72.5	238.	74.	15.	12.	9.	8.	6.	4.	2.	1. 0.
C	70.0<<	377.	126.	18.	13.	11.	8.	6.	4.	2.	1. 0.
A	67.5	566.	167.	23.	13.	12.	8.	6.	4.	2.	1. 0.
L	65.0	686.	214.	32.	14.	12.	9.	6.	4.	2.	1. 0.
	62.5	692.	255.	36.	14.	11.	9.	8.	4.	2.	1. 0.
A	60.0	708.	309.	34.	28.	11.	9.	8.	6.	2.	1. 0.
N	57.5	826.	350.	51.	29.	11.	9.	8.	8.	5.	4. 4.
G	55.0	853.	407.	73.	26.	13.	11.	9.	8.	6.	6. 5.
L	52.5	826.	458.	103.	25.	15.	11.	11.	9.	6.	6. 6.
E	50.0	816.	452.	133.	28.	22.	12.	9.	13.	9.	7. 6.
	47.5	808.	463.	154.	41.	28.	12.	9.	7.	6.	6. 6.
	45.0	841.	513.	202.	45.	30.	16.	11.	6.	6.	5. 6.
	42.5	927.	582.	246.	47.	31.	25.	12.	9.	6.	5. 6.
	40.0	972.	642.	249.	70.	32.	29.	19.	12.	8.	6. 7.
	37.5	1009.	690.	281.	112.	29.	28.	33.	24.	13.	10. 11.
	35.0	1074.	745.	319.	178.	33.	29.	39.	38.	27.	22. 23.
	32.5	1124.	796.	369.	211.	46.	33.	33.	37.	36.	36. 39.
	30.0	1192.	875.	455.	232.	102.	36.	31.	29.	32.	35. 40.
	25.0	1312.	1016.	627.	341.	241.	124.	41.	32.	30.	32. 33.
	20.0	1345.	1093.	748.	494.	318.	231.	166.	107.	67.	58. 53.
	15.0	1434.	1219.	964.	680.	494.	358.	297.	259.	229.	218. 214.
	10.0	1499.	1361.	1125.	987.	788.	666.	575.	509.	472.	465. 454.
	5.0	1546.	1476.	1359.	1260.	1170.	1116.	1069.	1037.	994.	957. 968.
	0.0	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.	1584.

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	38
5- 10	113
10- 15	190
15- 20	270
20- 25	355
25- 30	443
30- 35	538
35- 40	655
40- 45	773
45- 50	876
50- 55	953
55- 60	1089
60- 65	1165
65- 70	1138
70- 75	924
75- 80	458
80- 85	89
85- 90	7
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	151
0- 20	611
0- 30	1408
0- 40	2601
0- 50	4250
0- 60	6292
0- 70	8595
0- 80	9977
0- 90	10073
0-100	10073
0-110	10073
0-120	10073
0-130	10073
0-140	10073
0-150	10073
0-160	10073
0-170	10073
0-180	10073