

**REPORT NUMBER:** PRORATED FROM RAB04284

**PAGE:** 1 OF 10

**ISSUE DATE:** 05/8/18

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T105Y - RWLED4T105Y - RWLED4T105SFY- WPLED4T105Y (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.

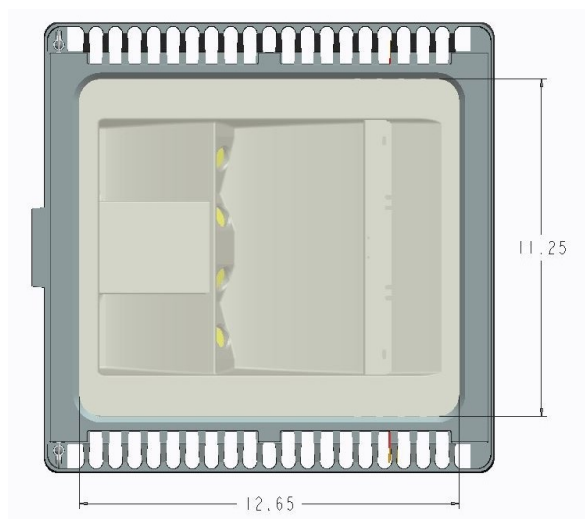
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04284 WHICH WAS ALED4T150Y. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 105.8 W AT 120.0 VAC.

**LED DRIVER:** LED DRIVER: 2 X RD-060-A1400

**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

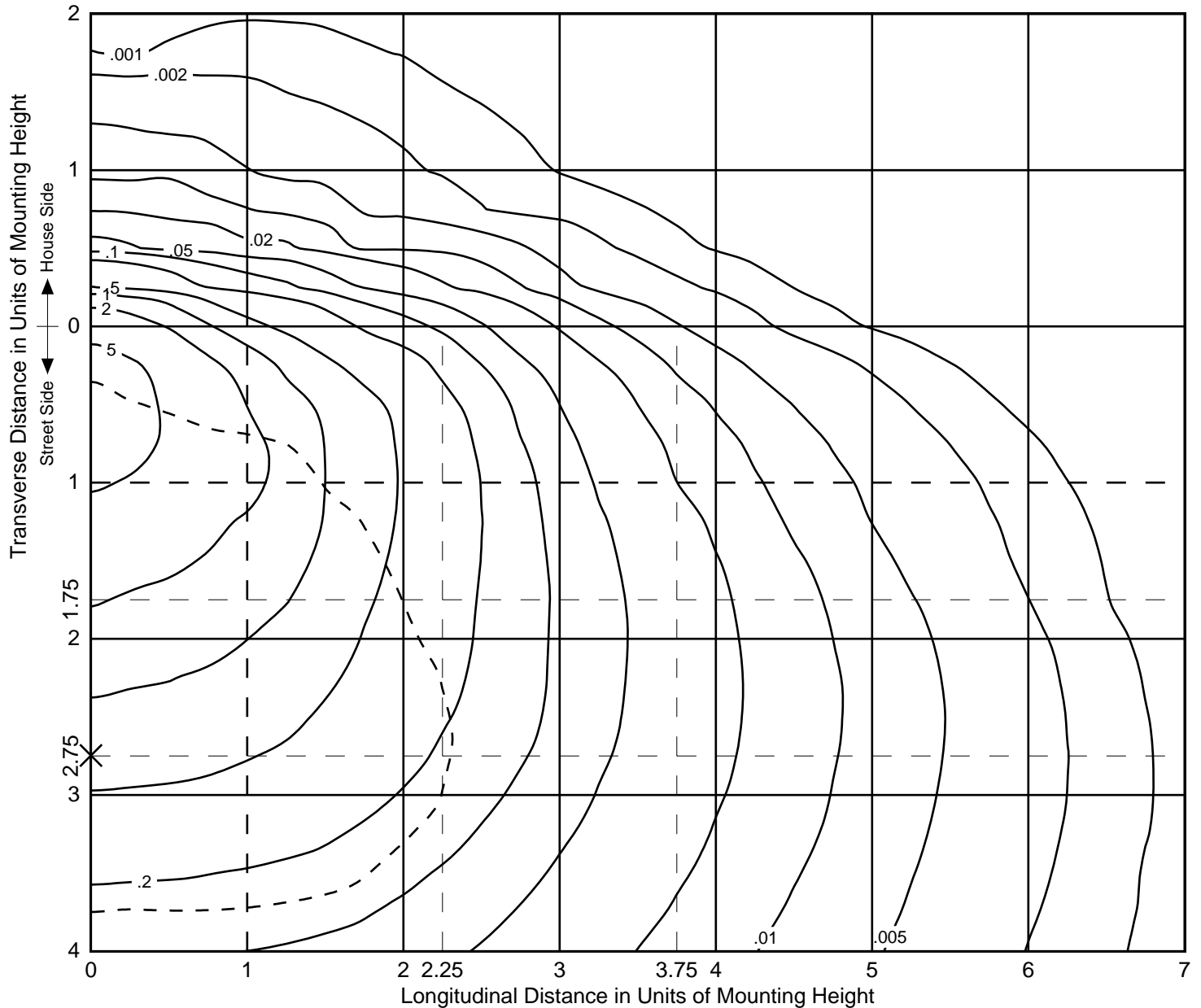
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — 1/2 Maximum Candela trace

× Maximum Candela point



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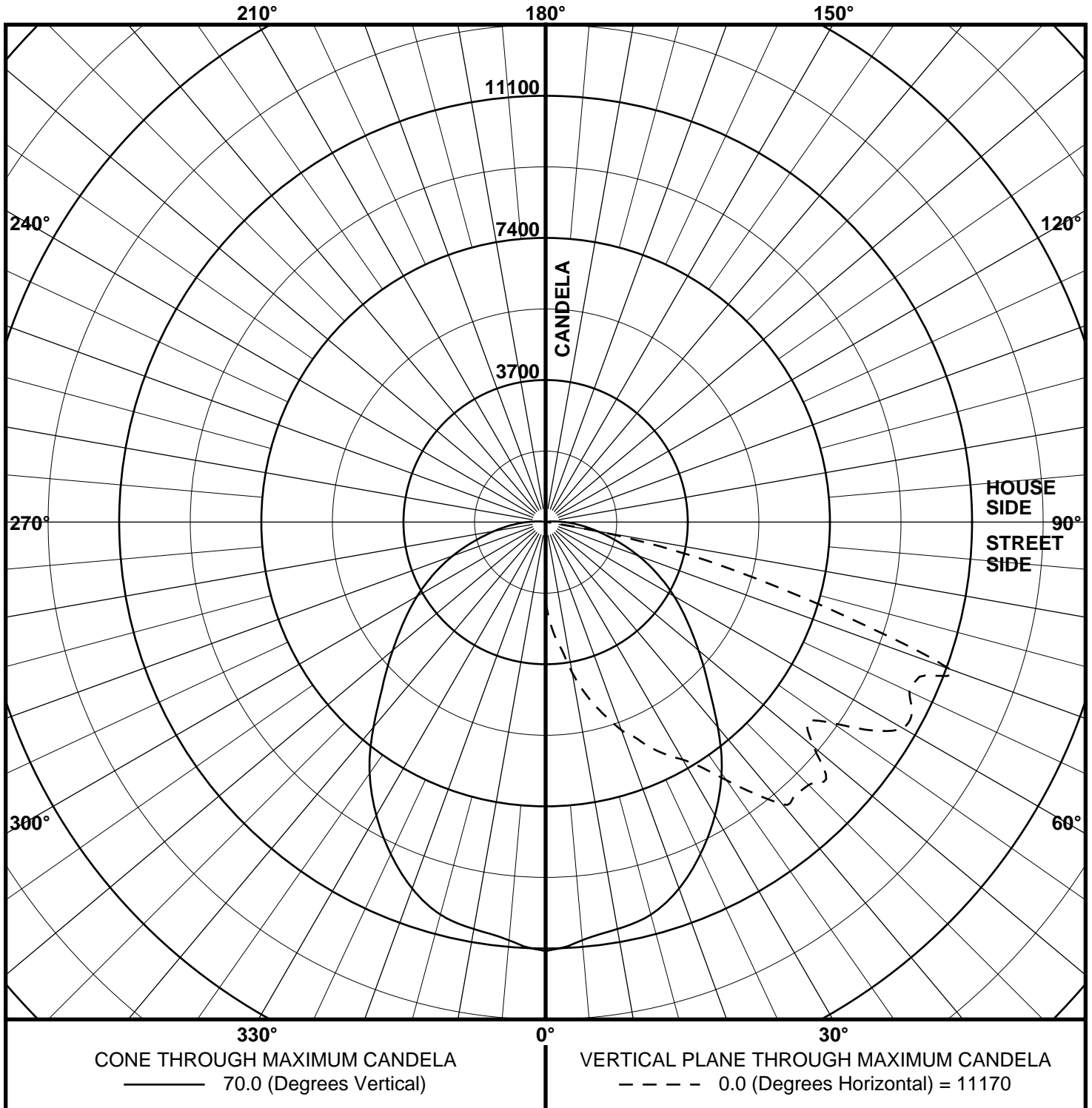
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**MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA**



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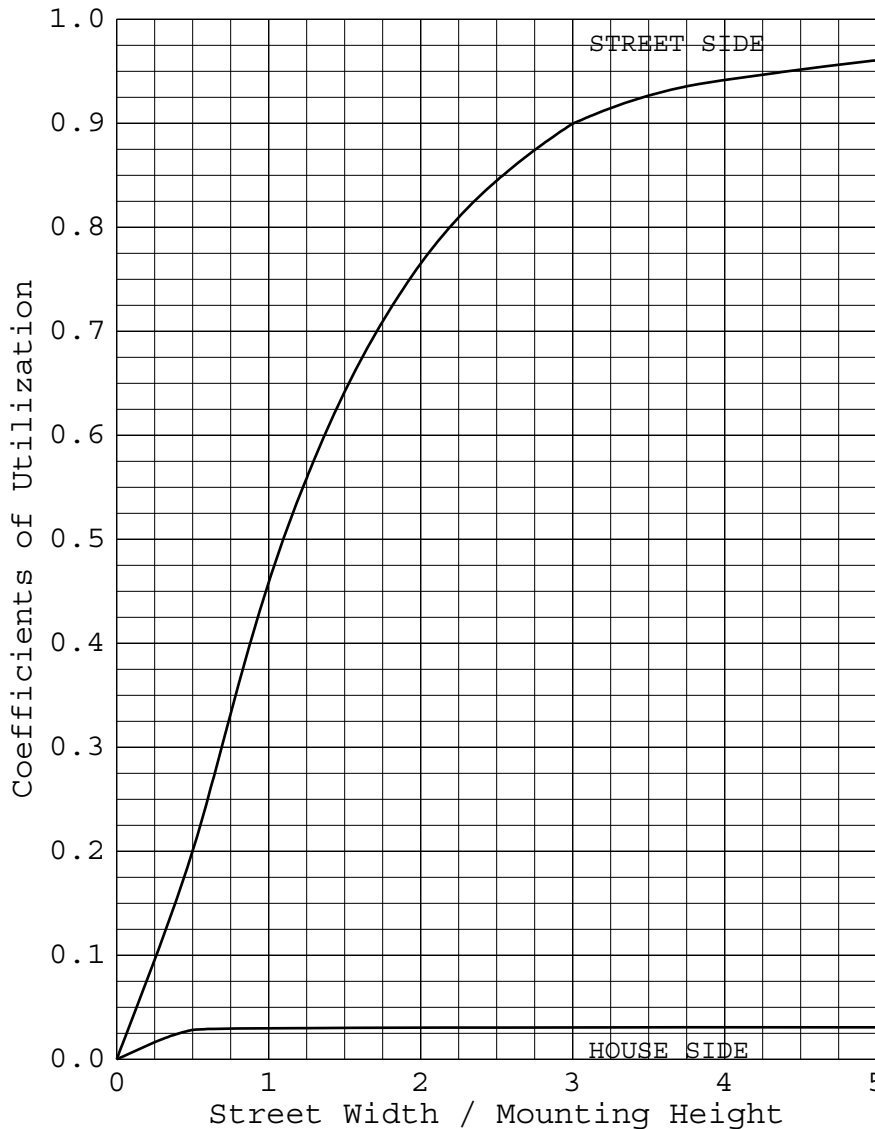
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## COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	13655	96.8
DOWNWARD HOUSE SIDE	448	3.2
DOWNWARD TOTAL	14103	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	14103	100.0

EFFICACY = 133.3 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 G3		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	13655			
FM	(30° – 60°)	1661.7			
FH	(60° – 80°)	6628.4			
FVH	(80° – 90°)	5228.9			G3
		136.1			G2
Backward					
BL	(0° – 30°)	448			
BM	(30° – 60°)	240.8	B1		
BH	(60° – 80°)	160.6	B0		
BVH	(80° – 90°)	40.3	B0		G0
		6.5			G0
Upward					
UL	(90° – 100°)	0			
UH	(100° – 180°)	0.0		U0	
		0.0		U0	
Trapped Light					
Total Flux					
		0			
		14103			
		100.0			

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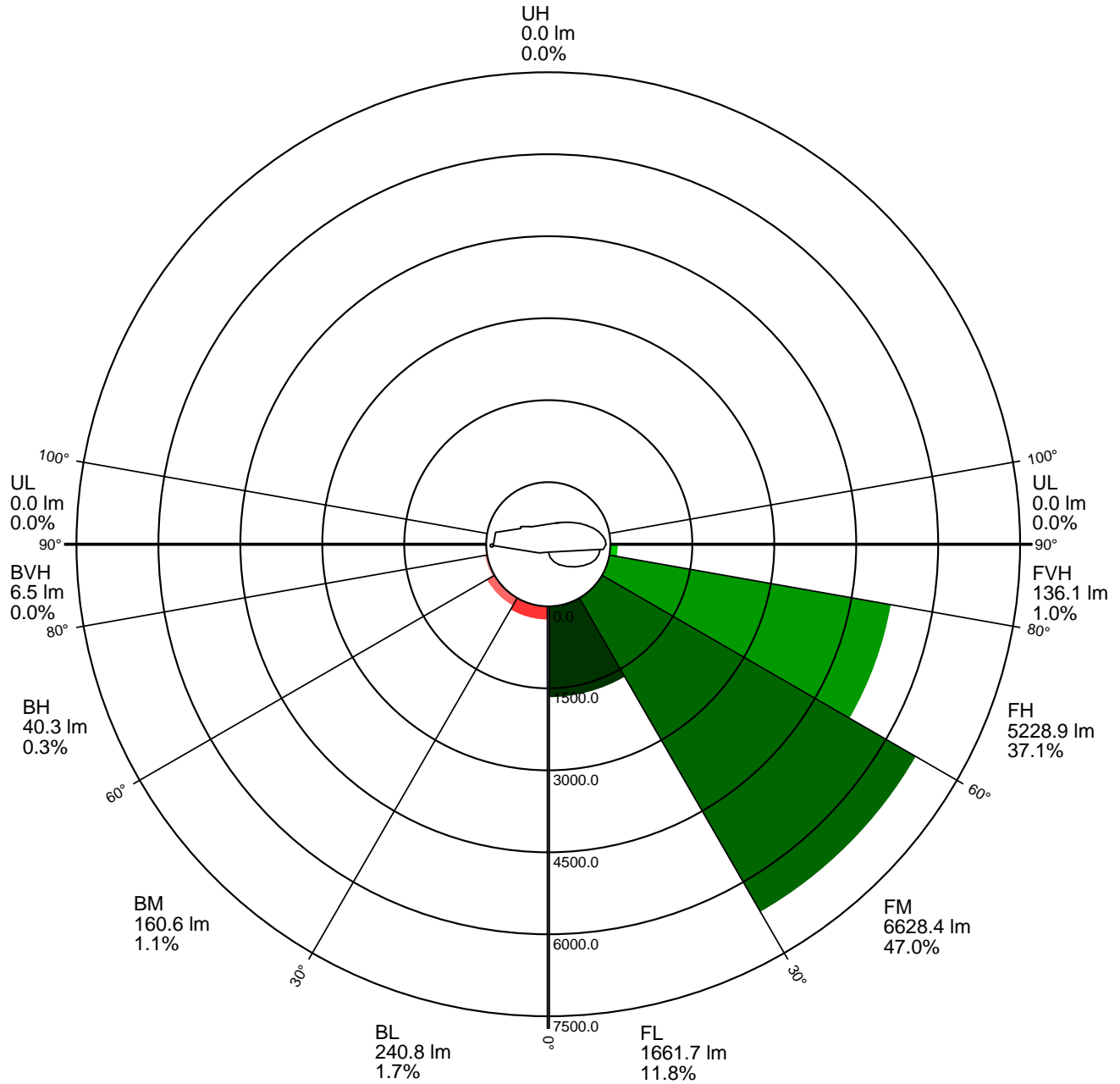
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## Zonal Lumen Summary

(Linear scale)



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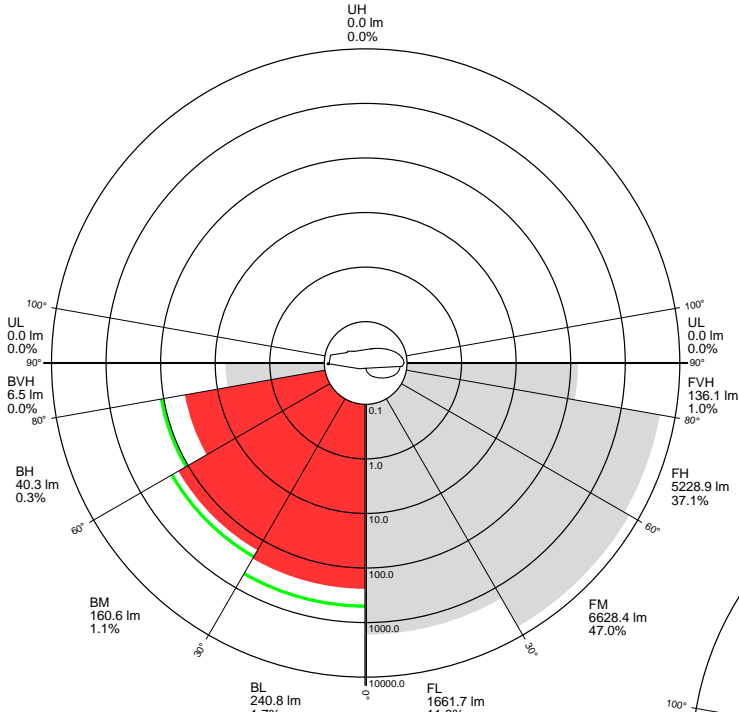
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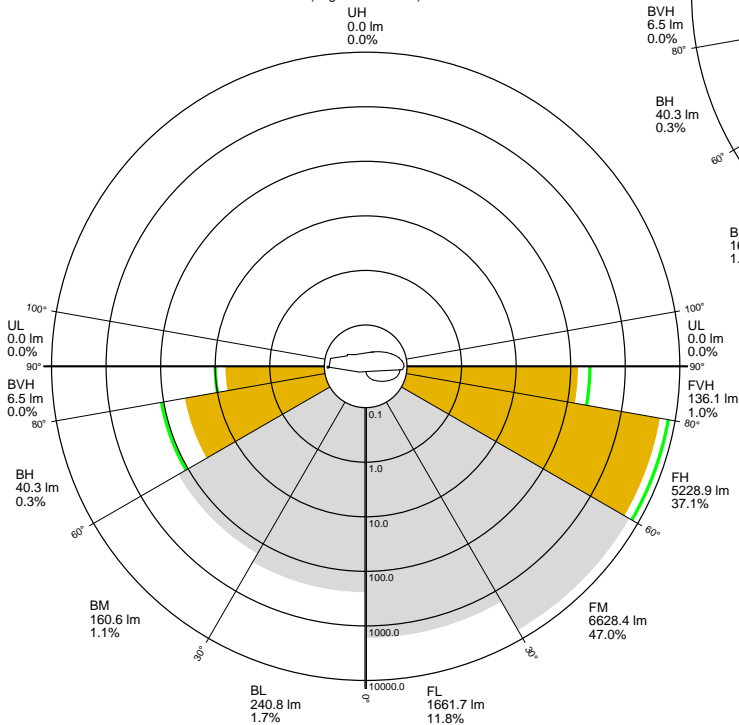
### Backlight Rating Details

(Logarithmic scale)



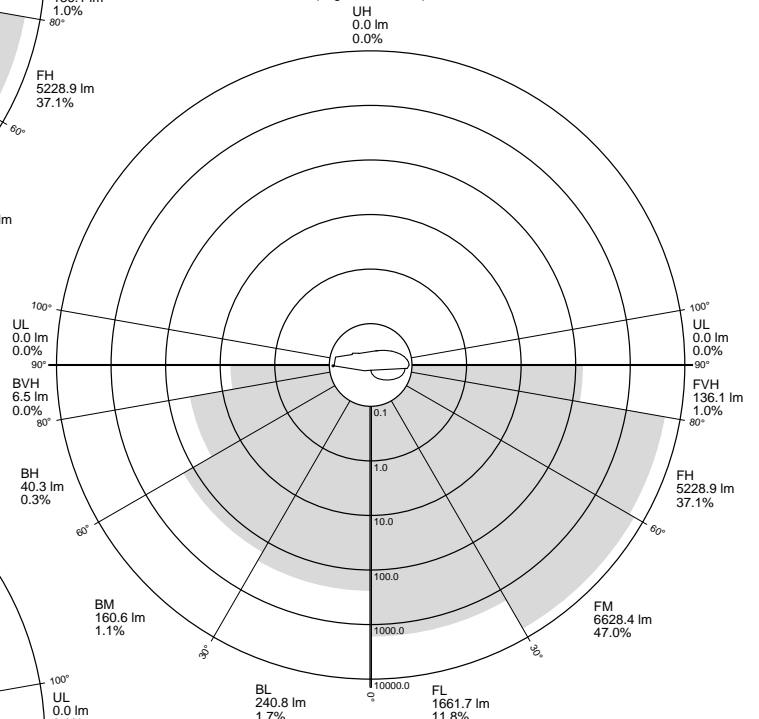
### Glare Rating Details

(Logarithmic scale)



### Uplight Rating Details

(Logarithmic scale)



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### CANDELA TABULATION

	STREET SIDE		LATERAL ANGLE									
	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	16.	19.	22.	20.	22.	13.	16.	17.	17.	17.	18.	
85.0	48.	48.	49.	93.	190.	124.	95.	60.	70.	31.	19.	
V 82.5	133.	142.	156.	264.	524.	522.	561.	355.	241.	89.	38.	
E 80.0	1329.	1361.	1422.	1589.	2095.	1674.	1457.	1204.	860.	379.	145.	
R 77.5	3480.	3454.	3483.	3834.	4067.	3571.	2826.	2068.	1275.	623.	261.	
T 75.0	5638.	5572.	5624.	5949.	6328.	5831.	4715.	2907.	1783.	863.	381.	
I 72.5	8240.	8167.	8117.	8676.	9041.	7483.	5548.	3714.	2278.	1267.	600.	
C 70.0	<11170.	11082.	10928.	10580.	9538.	7988.	5987.	4496.	3219.	1927.	890.	
A 67.5	10529.	10371.	10168.	10059.	9286.	8440.	6548.	5003.	3941.	2556.	1291.	
L 65.0	10451.	10248.	9985.	10179.	9406.	8642.	6826.	5455.	4240.	3036.	1561.	
62.5	10745.	10503.	10090.	10168.	9479.	8871.	7395.	5384.	4338.	3293.	1564.	
A 60.0	10728.	10434.	9924.	9765.	9246.	8848.	7749.	5792.	4289.	3263.	1448.	
N 57.5	10101.	9856.	9273.	8976.	8615.	7823.	7610.	6360.	4306.	3051.	1428.	
G 55.0	9129.	8896.	8483.	8272.	7780.	7476.	7675.	6427.	4346.	2902.	1446.	
L 52.5	8588.	8450.	8147.	7792.	7741.	7455.	7234.	5955.	4188.	2765.	1475.	
E 50.0	9109.	8985.	8826.	8544.	8162.	7242.	6950.	5569.	4065.	2763.	1542.	
47.5	9905.	9785.	9533.	8719.	8228.	7559.	6463.	5166.	3928.	2766.	1534.	
45.0	9679.	9608.	9430.	8643.	8355.	7394.	5882.	4792.	3803.	2714.	1589.	
42.5	9627.	9572.	9440.	8901.	8205.	6731.	5576.	4635.	3728.	2678.	1685.	
40.0	9601.	9532.	9411.	8851.	7527.	6325.	5425.	4636.	3708.	2598.	1713.	
37.5	8902.	8804.	8690.	8067.	6922.	6047.	5286.	4567.	3703.	2654.	1753.	
35.0	8205.	8101.	7953.	7293.	6533.	5767.	5194.	4472.	3589.	2686.	1881.	
32.5	7582.	7522.	7415.	6789.	6161.	5540.	4993.	4385.	3517.	2670.	1951.	
30.0	7146.	7100.	7020.	6374.	5918.	5335.	4777.	4191.	3488.	2672.	2032.	
25.0	6484.	6453.	6405.	5863.	5414.	4913.	4419.	3937.	3352.	2676.	2139.	
20.0	5767.	5734.	5714.	5421.	4976.	4579.	4155.	3669.	3113.	2617.	2118.	
15.0	4933.	4928.	4889.	4743.	4422.	4071.	3697.	3319.	2916.	2641.	2152.	
10.0	3975.	3972.	3957.	3849.	3648.	3421.	3177.	2992.	2779.	2512.	2142.	
5.0	3048.	3065.	3039.	2992.	2937.	2870.	2779.	2650.	2481.	2317.	2132.	
0.0	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	

||  
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	18.	18.	17.	16.	16.	14.	13.	11.	10.	10. 9.
	85.0	19.	19.	17.	16.	15.	14.	13.	10.	8.	7. 7.
V	82.5	28.	22.	18.	16.	15.	13.	12.	10.	7.	6. 6.
E	80.0	60.	25.	20.	16.	15.	13.	11.	9.	6.	5. 5.
R	77.5	96.	40.	22.	17.	15.	13.	11.	8.	6.	4. 4.
T	75.0	194.	54.	22.	19.	15.	13.	10.	8.	5.	4. 4.
I	72.5	301.	88.	23.	19.	15.	13.	10.	8.	5.	4. 4.
C	70.0<<	475.	170.	27.	20.	15.	13.	10.	8.	5.	4. 4.
A	67.5	717.	212.	35.	20.	19.	13.	10.	8.	6.	4. 4.
L	65.0	863.	253.	46.	22.	18.	14.	10.	8.	6.	4. 4.
	62.5	899.	292.	52.	22.	18.	15.	12.	8.	6.	4. 5.
A	60.0	901.	358.	50.	35.	18.	15.	15.	10.	6.	4. 5.
N	57.5	1045.	416.	70.	42.	18.	15.	13.	15.	10.	7. 7.
G	55.0	1115.	492.	96.	40.	20.	16.	14.	14.	15.	13. 13.
L	52.5	1093.	556.	140.	39.	25.	19.	18.	13.	13.	13. 14.
E	50.0	1063.	554.	180.	42.	31.	19.	20.	21.	16.	14. 14.
	47.5	1043.	568.	197.	54.	39.	22.	16.	19.	16.	15. 14.
	45.0	1074.	630.	252.	68.	46.	24.	21.	13.	13.	13. 13.
	42.5	1171.	714.	307.	72.	50.	35.	21.	15.	13.	13. 13.
	40.0	1236.	779.	306.	97.	48.	45.	26.	20.	15.	14. 15.
	37.5	1265.	859.	329.	151.	48.	45.	42.	30.	21.	17. 19.
	35.0	1367.	934.	370.	226.	52.	45.	59.	49.	34.	28. 31.
	32.5	1445.	984.	430.	273.	68.	51.	56.	60.	52.	48. 54.
	30.0	1539.	1087.	524.	299.	127.	59.	54.	52.	54.	56. 64.
	25.0	1692.	1272.	762.	425.	323.	142.	66.	52.	51.	53. 56.
	20.0	1741.	1381.	952.	577.	409.	311.	227.	136.	95.	84. 87.
	15.0	1855.	1563.	1230.	825.	582.	439.	385.	335.	312.	288. 296.
	10.0	1957.	1764.	1426.	1256.	991.	797.	702.	619.	587.	564. 581.
	5.0	2032.	1939.	1770.	1619.	1502.	1403.	1371.	1323.	1289.	1238. 1297.
	0.0	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102.	2102. 2102.

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	50
5- 10	148
10- 15	251
15- 20	363
20- 25	482
25- 30	609
30- 35	746
35- 40	915
40- 45	1086
45- 50	1225
50- 55	1316
55- 60	1500
60- 65	1642
65- 70	1625
70- 75	1336
75- 80	665
80- 85	132
85- 90	11
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	198
0- 20	812
0- 30	1902
0- 40	3564
0- 50	5875
0- 60	8691
0- 70	11959
0- 80	13961
0- 90	14103
0-100	14103
0-110	14103
0-120	14103
0-130	14103
0-140	14103
0-150	14103
0-160	14103
0-170	14103
0-180	14103