

**REPORT NUMBER:** PRORATED FROM RAB04284

**PAGE:** 1 OF 10

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

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T105 - RWLED4T105 - RWLED4T105SF- WPLED4T105 (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.

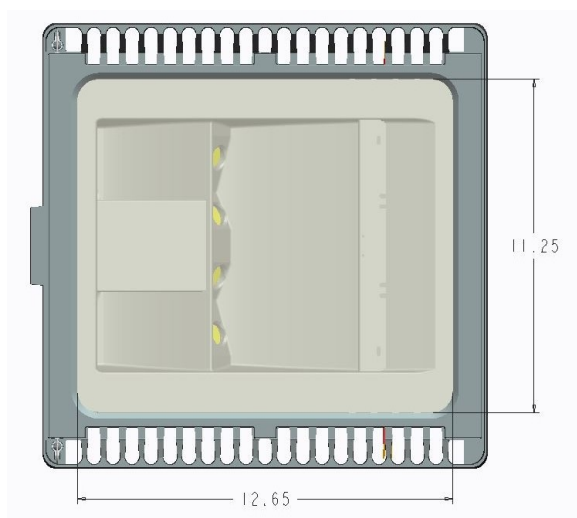
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04284 WHICH WAS ALED4T150Y. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 105.6 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

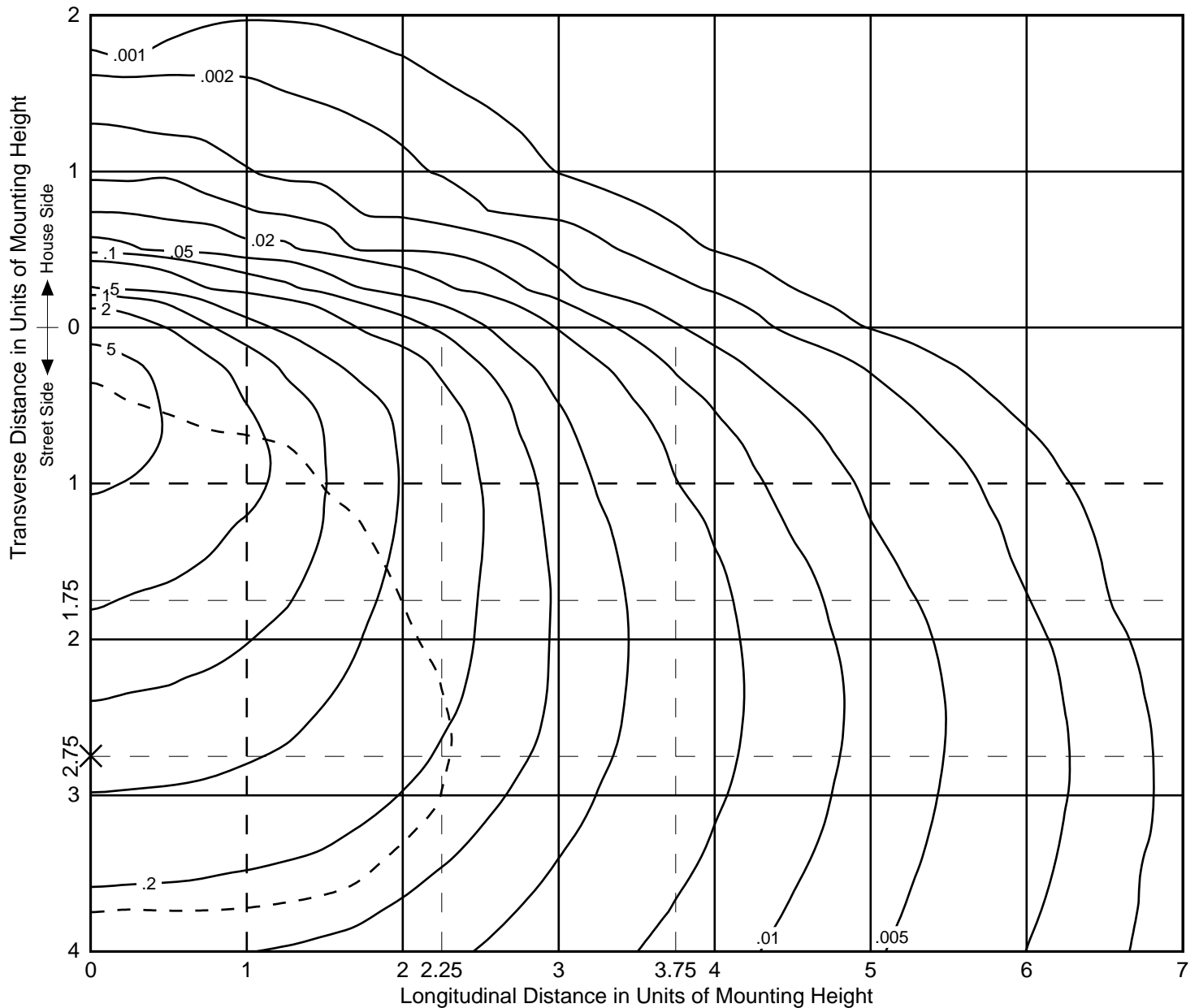
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — 1/2 Maximum Candela trace

× Maximum Candela point



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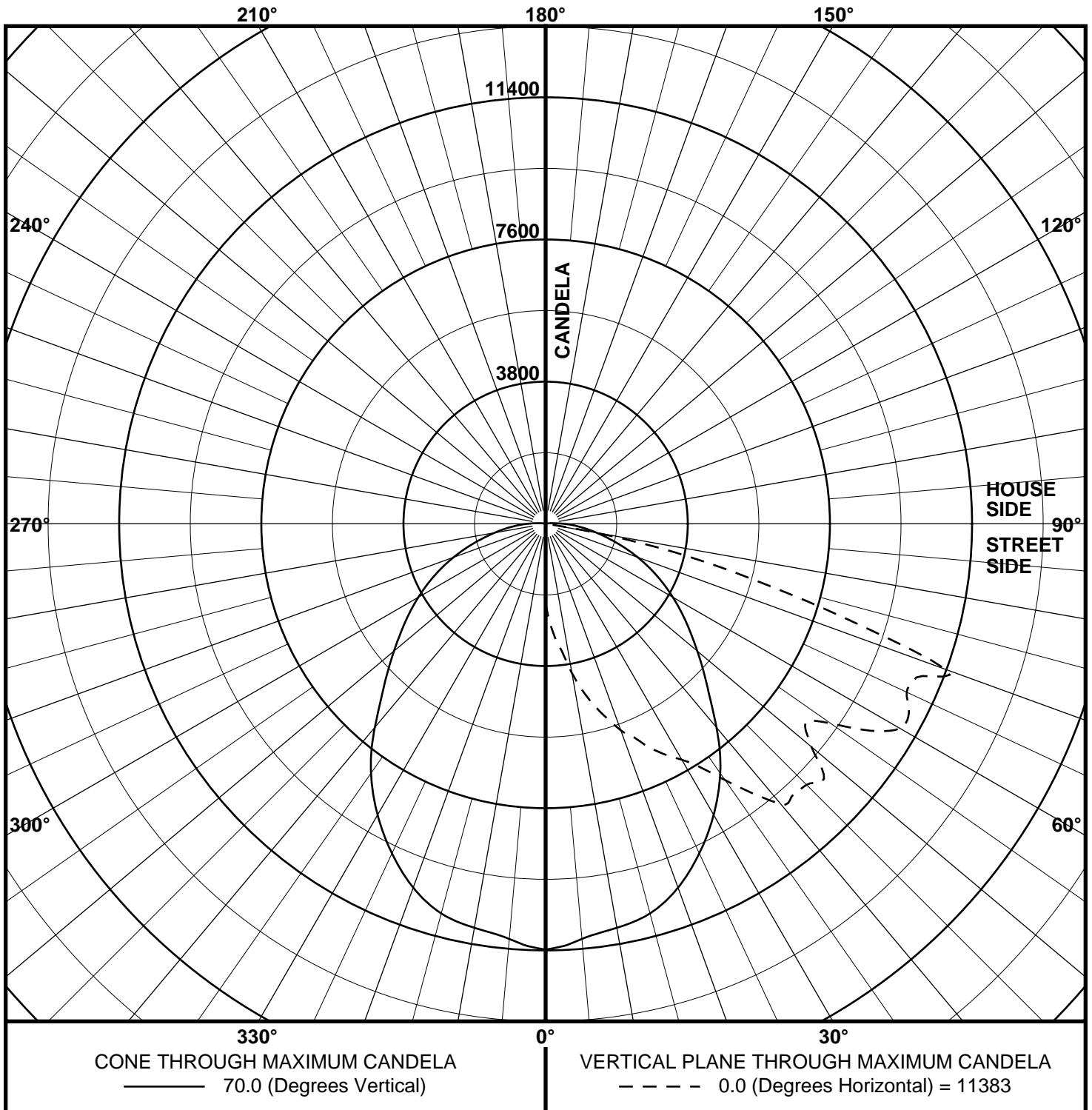
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### MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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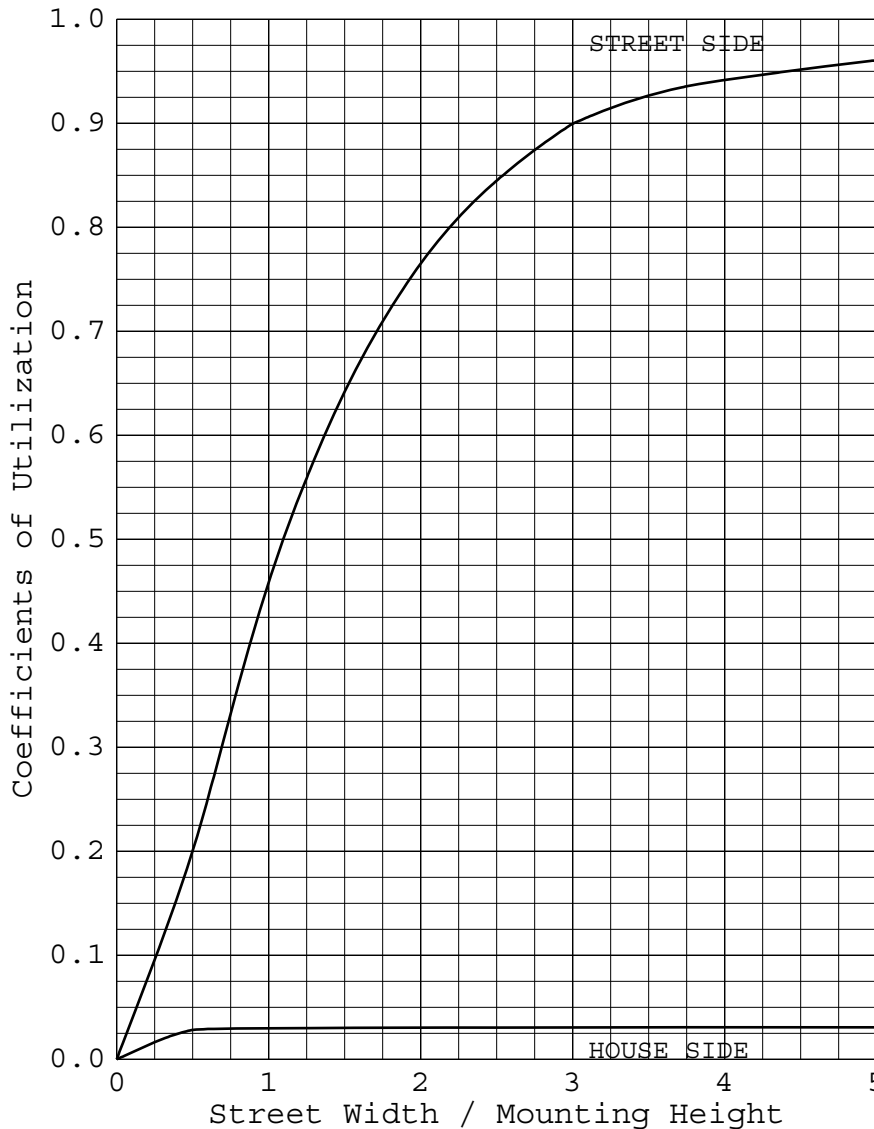
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## COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	13915	96.8
DOWNWARD HOUSE SIDE	457	3.2
DOWNWARD TOTAL	14372	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	14372	100.0

EFFICACY = 136.1 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			B1U0G3				
Zonal Summary			Lumens	% of Fixture	Zone Ratings		
					B	U	G
Forward			13915	96.8			
FL	(0° – 30°)		1693.4	11.8			
FM	(30° – 60°)		6754.8	47.0			
FH	(60° – 80°)		5328.7	37.1			G3
FVH	(80° – 90°)		138.7	1.0			G2
Backward			457	3.2			
BL	(0° – 30°)		245.4	1.7	B1		
BM	(30° – 60°)		163.7	1.1	B0		
BH	(60° – 80°)		41.1	0.3	B0		G0
BVH	(80° – 90°)		6.6	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			14372	100.0			

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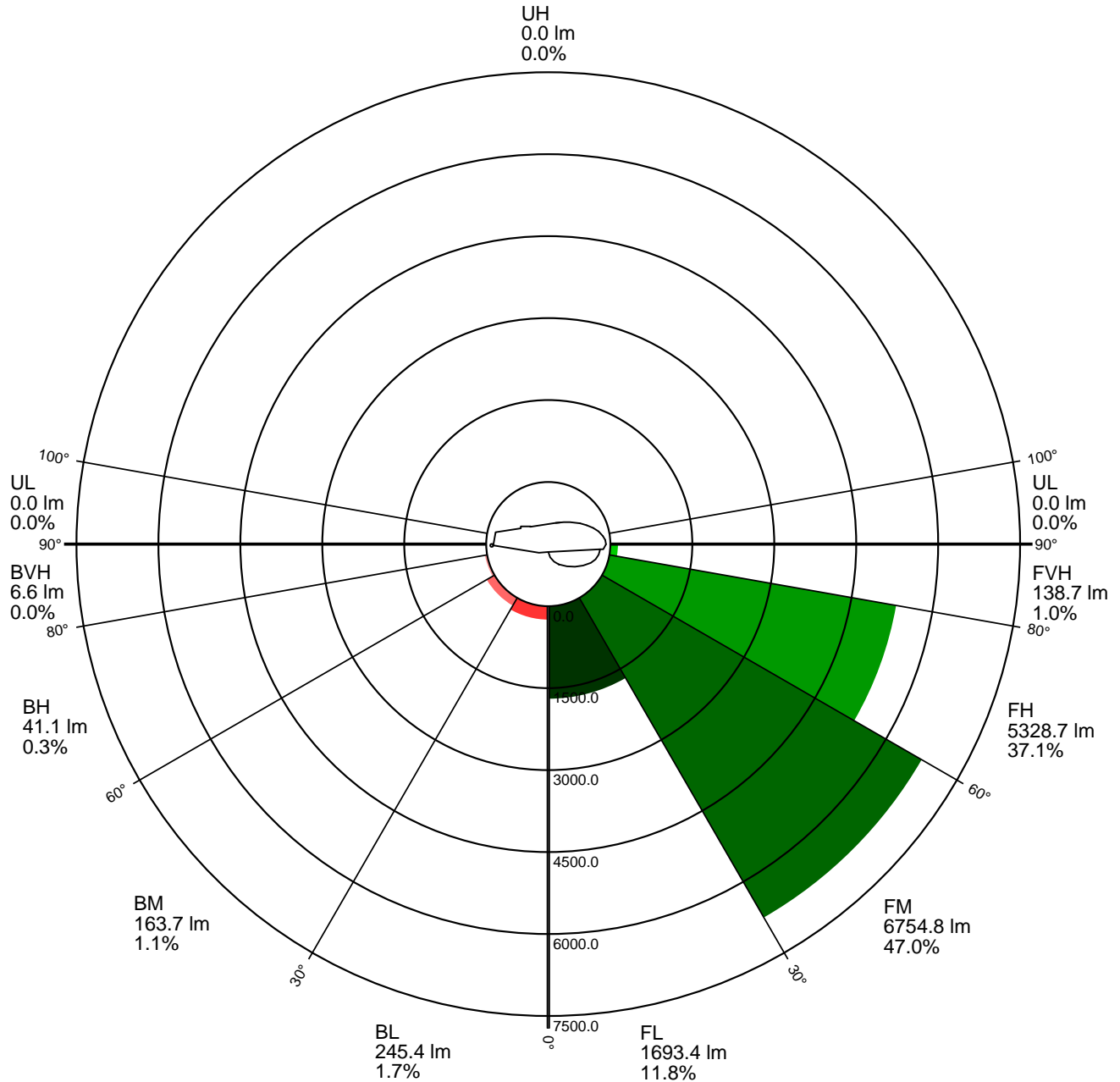
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## Zonal Lumen Summary

(Linear scale)



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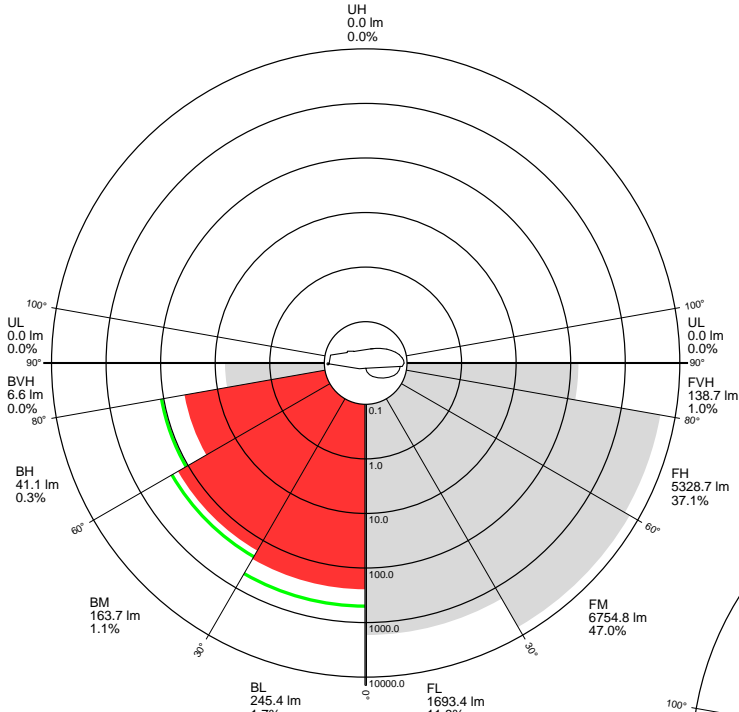
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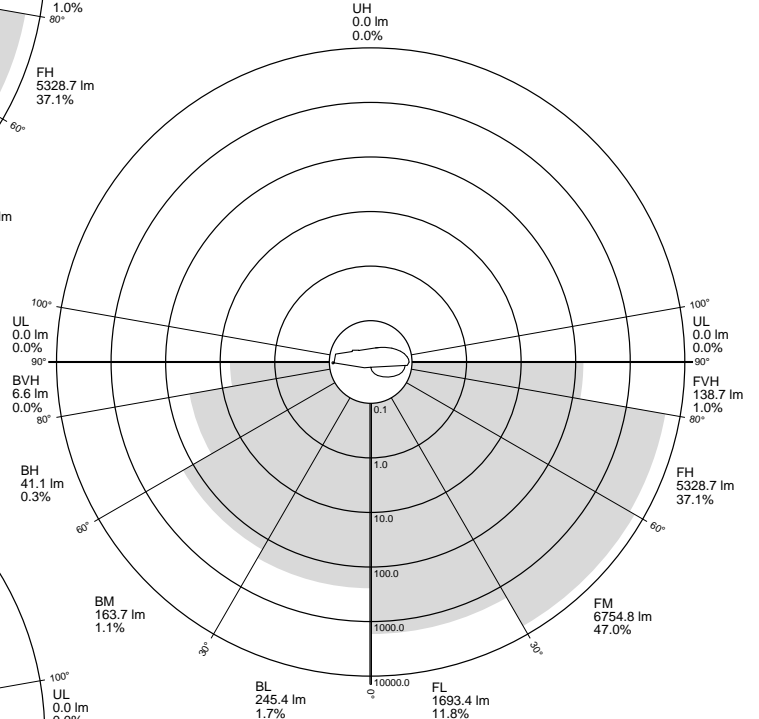
### Backlight Rating Details

(Logarithmic scale)



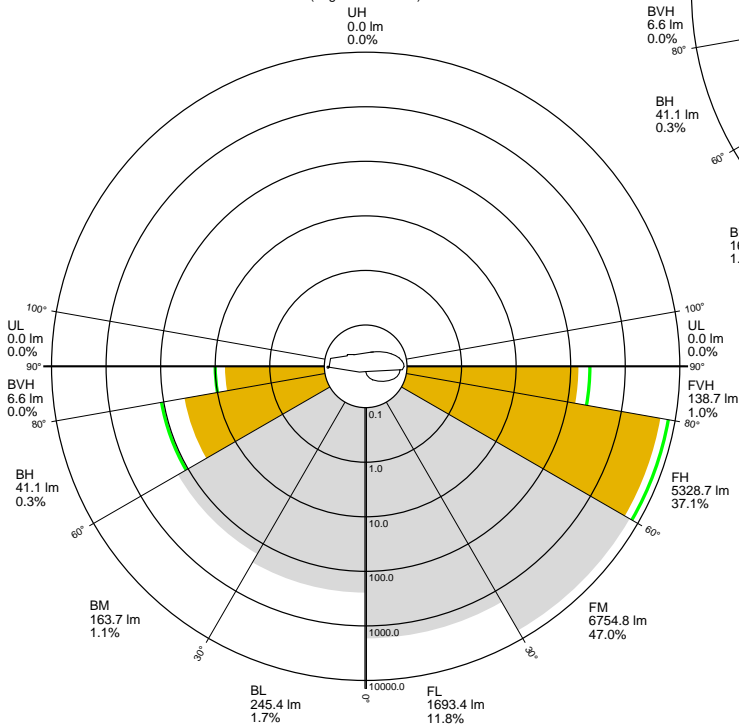
### Uplight Rating Details

(Logarithmic scale)



### Glare 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	17.	19.	22.	21.	23.	14.	17.	17.	17.	17.	18.
	85.0	49.	49.	50.	95.	194.	127.	97.	62.	71.	31.	20.
V	82.5	136.	145.	159.	269.	534.	532.	572.	362.	246.	91.	39.
E	80.0	1354.	1387.	1450.	1620.	2135.	1705.	1485.	1227.	876.	387.	147.
R	77.5	3546.	3520.	3550.	3908.	4144.	3640.	2880.	2107.	1299.	635.	266.
T	75.0	5745.	5678.	5731.	6063.	6449.	5943.	4805.	2962.	1817.	879.	388.
I	72.5	8397.	8322.	8271.	8841.	9213.	7625.	5654.	3785.	2321.	1291.	611.
C	70.0	<11383.	11294.	11136.	10782.	9720.	8140.	6101.	4582.	3280.	1964.	907.
A	67.5	10730.	10569.	10362.	10251.	9463.	8601.	6673.	5098.	4016.	2605.	1315.
L	65.0	10650.	10444.	10175.	10373.	9586.	8807.	6956.	5559.	4321.	3094.	1591.
	62.5	10950.	10703.	10283.	10362.	9660.	9040.	7536.	5486.	4421.	3356.	1594.
A	60.0	10933.	10633.	10113.	9951.	9422.	9016.	7896.	5902.	4371.	3325.	1475.
N	57.5	10294.	10044.	9450.	9147.	8779.	7972.	7755.	6481.	4388.	3109.	1456.
G	55.0	9303.	9066.	8644.	8430.	7928.	7618.	7821.	6550.	4428.	2957.	1473.
L	52.5	8751.	8612.	8303.	7940.	7889.	7597.	7372.	6069.	4268.	2818.	1503.
E	50.0	9283.	9157.	8994.	8707.	8318.	7380.	7082.	5675.	4143.	2816.	1571.
	47.5	10094.	9972.	9715.	8885.	8385.	7703.	6587.	5264.	4003.	2819.	1563.
	45.0	9864.	9791.	9610.	8808.	8514.	7535.	5994.	4883.	3876.	2766.	1619.
	42.5	9811.	9754.	9620.	9070.	8362.	6859.	5682.	4724.	3799.	2729.	1718.
	40.0	9784.	9714.	9590.	9020.	7671.	6446.	5528.	4725.	3778.	2648.	1746.
	37.5	9072.	8972.	8855.	8221.	7054.	6163.	5387.	4654.	3773.	2705.	1786.
	35.0	8361.	8256.	8105.	7432.	6657.	5877.	5293.	4558.	3658.	2737.	1917.
	32.5	7726.	7666.	7556.	6918.	6279.	5646.	5088.	4469.	3584.	2721.	1989.
	30.0	7282.	7236.	7154.	6495.	6031.	5437.	4868.	4271.	3554.	2723.	2071.
	25.0	6608.	6576.	6527.	5974.	5517.	5006.	4503.	4012.	3416.	2727.	2180.
	20.0	5877.	5843.	5823.	5524.	5071.	4666.	4234.	3739.	3173.	2667.	2159.
	15.0	5028.	5022.	4982.	4834.	4507.	4149.	3768.	3382.	2972.	2692.	2193.
	10.0	4051.	4047.	4032.	3923.	3718.	3486.	3238.	3049.	2832.	2560.	2183.
	5.0	3106.	3124.	3097.	3050.	2993.	2925.	2832.	2700.	2529.	2361.	2172.
	0.0	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.

||  
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.	17.	16.	14.	13.	11.	10.	10. 9.
	85.0	19.	19.	17.	17.	15.	14.	13.	11.	8.	8. 8.
V	82.5	28.	22.	18.	17.	15.	14.	12.	10.	7.	6. 6.
E	80.0	61.	25.	21.	17.	15.	14.	11.	9.	6.	5. 5.
R	77.5	98.	41.	23.	17.	15.	13.	11.	8.	6.	5. 5.
T	75.0	198.	55.	23.	19.	15.	13.	11.	8.	5.	4. 4.
I	72.5	307.	90.	24.	20.	15.	13.	11.	8.	5.	4. 4.
C	70.0<<	484.	173.	27.	21.	15.	13.	11.	8.	5.	4. 4.
A	67.5	730.	216.	36.	21.	19.	13.	11.	8.	6.	4. 4.
L	65.0	879.	257.	47.	22.	18.	14.	11.	8.	6.	4. 5.
	62.5	917.	298.	53.	22.	18.	15.	12.	8.	6.	5. 5.
A	60.0	918.	365.	51.	36.	18.	15.	15.	10.	6.	5. 5.
N	57.5	1065.	424.	71.	43.	18.	15.	14.	15.	10.	8. 8.
G	55.0	1136.	501.	98.	41.	21.	17.	14.	14.	15.	13. 14.
L	52.5	1114.	566.	143.	39.	26.	19.	18.	14.	14.	14. 14.
E	50.0	1083.	565.	184.	43.	31.	20.	21.	21.	16.	14. 14.
	47.5	1063.	579.	200.	55.	40.	22.	16.	19.	16.	15. 14.
	45.0	1095.	642.	257.	69.	47.	24.	21.	14.	14.	13. 14.
	42.5	1194.	727.	313.	74.	51.	36.	21.	15.	14.	13. 14.
	40.0	1260.	794.	312.	99.	49.	46.	27.	21.	15.	14. 15.
	37.5	1289.	876.	336.	153.	49.	46.	43.	30.	21.	17. 19.
	35.0	1393.	952.	377.	230.	53.	46.	60.	50.	35.	29. 32.
	32.5	1472.	1002.	438.	278.	69.	52.	57.	61.	53.	49. 55.
	30.0	1569.	1108.	534.	304.	129.	60.	55.	53.	55.	57. 65.
	25.0	1724.	1296.	777.	433.	329.	144.	67.	53.	52.	54. 57.
	20.0	1774.	1407.	970.	588.	417.	317.	232.	139.	97.	86. 89.
	15.0	1891.	1592.	1254.	841.	593.	447.	393.	341.	318.	293. 301.
	10.0	1995.	1797.	1453.	1279.	1010.	812.	715.	631.	598.	575. 592.
	5.0	2071.	1976.	1803.	1650.	1531.	1430.	1397.	1349.	1314.	1261. 1322.
	0.0	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142.	2142. 2142.

CONE OF MAXIMUM CANDELA

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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	51
5- 10	150
10- 15	256
15- 20	370
20- 25	491
25- 30	620
30- 35	760
35- 40	933
40- 45	1107
45- 50	1249
50- 55	1342
55- 60	1529
60- 65	1674
65- 70	1656
70- 75	1362
75- 80	678
80- 85	134
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	201
0- 20	827
0- 30	1939
0- 40	3632
0- 50	5987
0- 60	8857
0- 70	12187
0- 80	14227
0- 90	14372
0-100	14372
0-110	14372
0-120	14372
0-130	14372
0-140	14372
0-150	14372
0-160	14372
0-170	14372
0-180	14372