

**REPORT NUMBER:** PRORATED FROM RAB04286

**PAGE:** 1 OF 10

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

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED2T78N - RWLED2T78N - RWLED2T78SFN - WPLED2T78N (TYPE II)

**LUMINAIRE:** CAST FINNED METAL HOUSING, 6 CHIP ON BOARD LIGHT EMITTING DIODES, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR GLASS LENS IN CAST BRONZE PAINTED METAL 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.

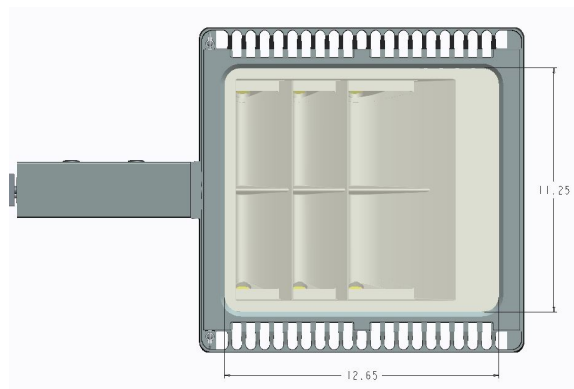
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04286 WHICH WAS ALED2T150Y. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 76.3 W AT 120.0 VAC.

**LED DRIVER:** LED DRIVER: RDD-U85-A2100

**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

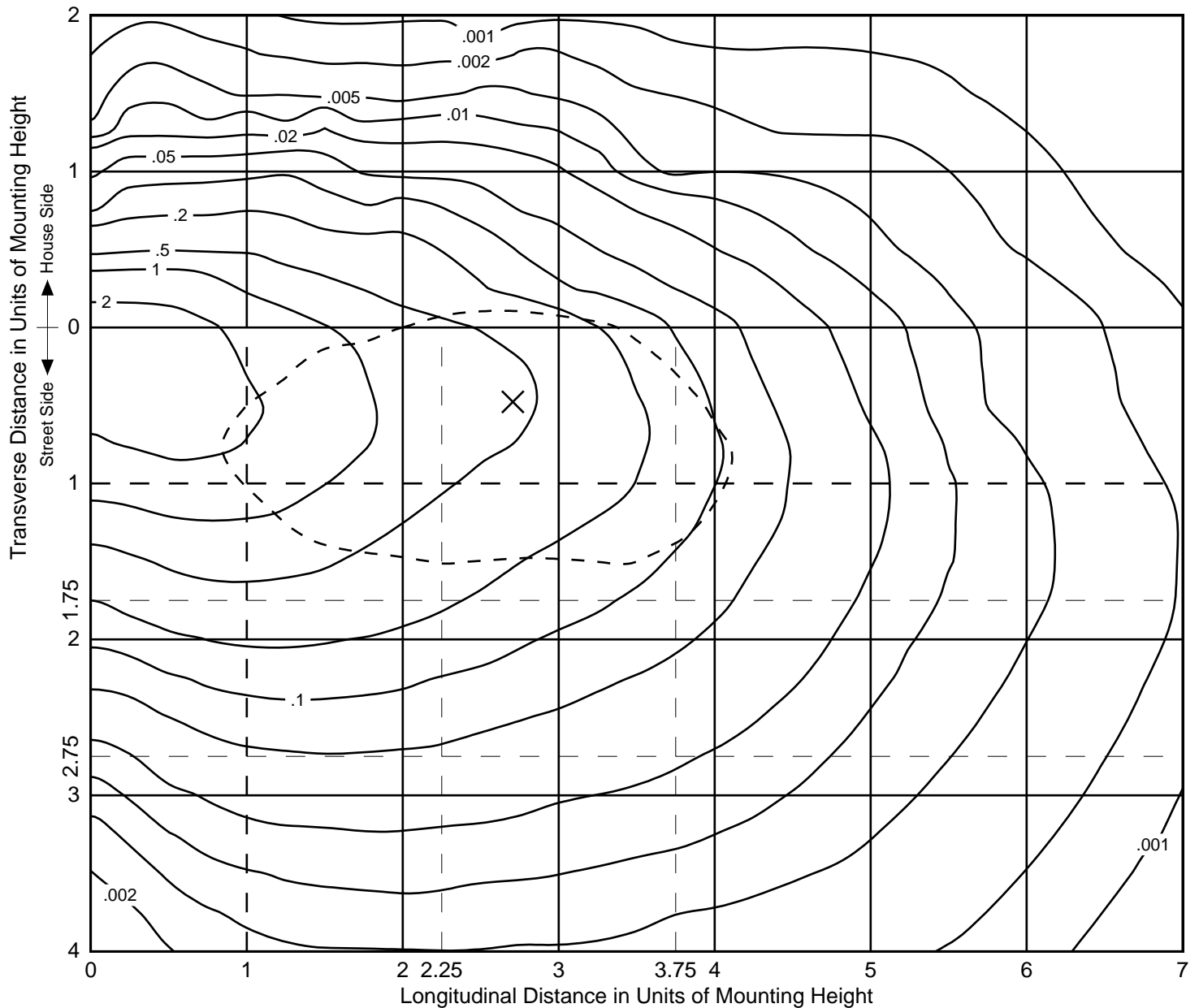
Values based on 25-foot mounting height

IES Classification: Medium, Type II

Cutoff Classification (deprecated): Semicutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



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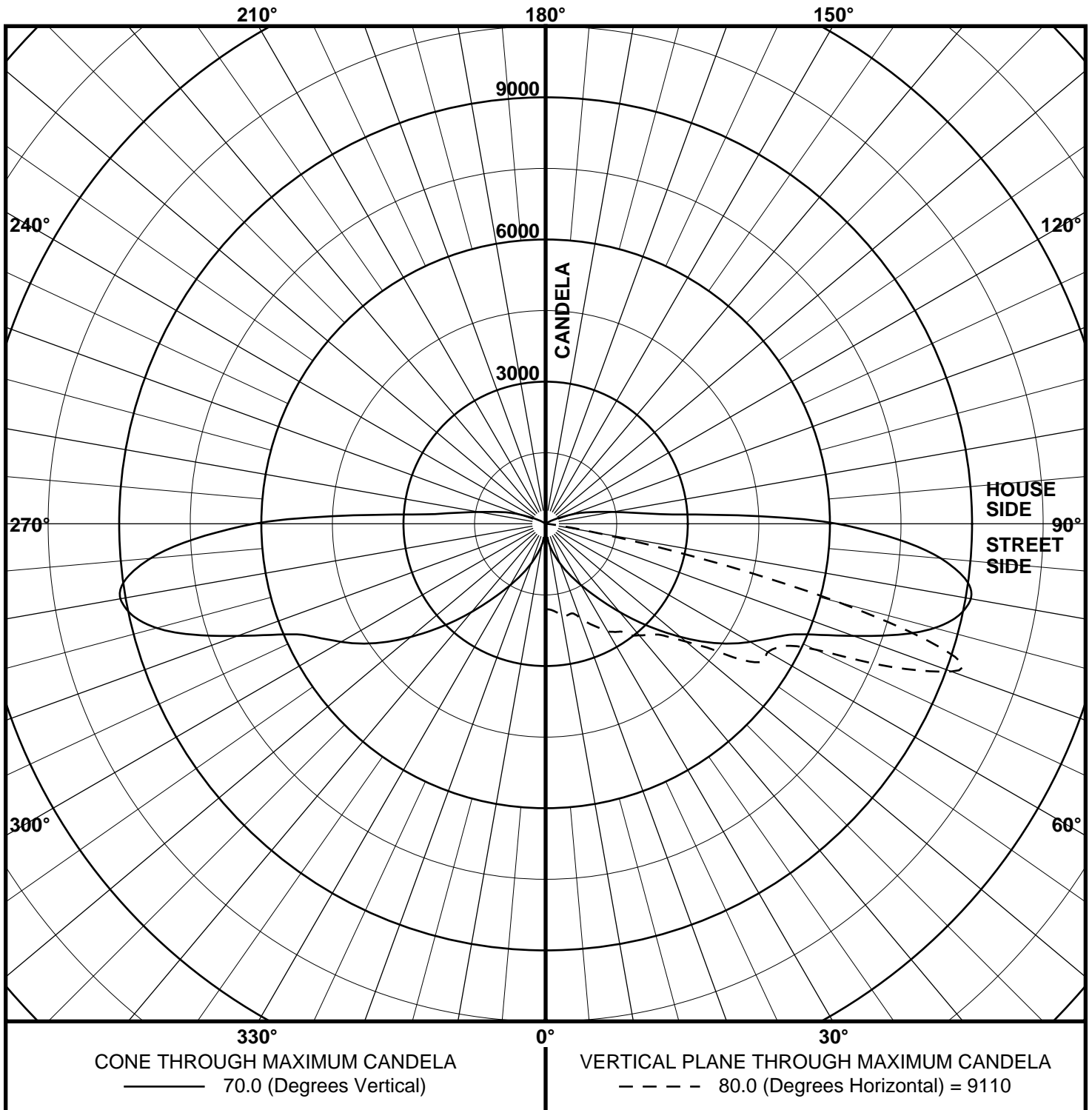
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## MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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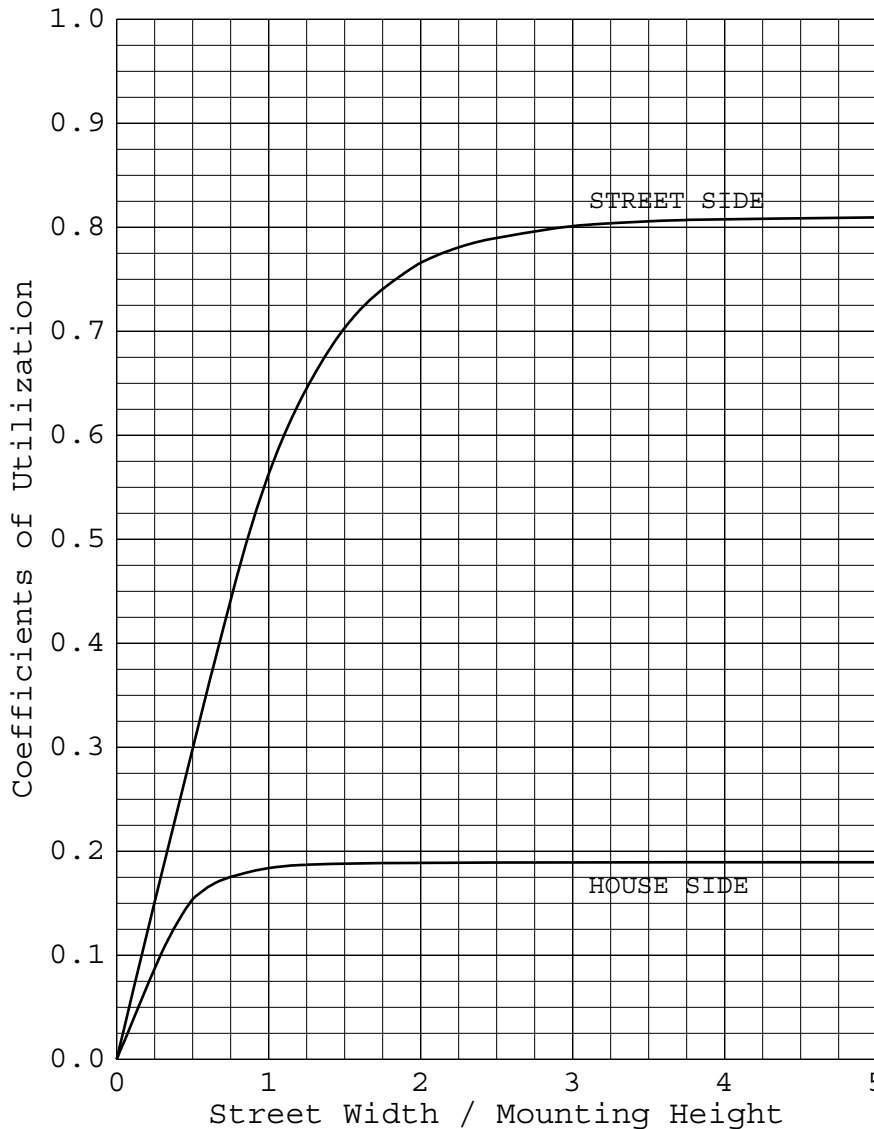
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### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	8022	81.0
DOWNWARD HOUSE SIDE	1882	19.0
DOWNWARD TOTAL	9904	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	9904	100.0

EFFICACY = 129.8 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			B2 U0 G2		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	8022			
FM	(30° – 60°)	902.0			
FH	(60° – 80°)	3934.5			
FVH	(80° – 90°)	3130.7			G2
		54.6			G1
Backward					
BL	(0° – 30°)	1882	B2		
BM	(30° – 60°)	526.7	B1		
BH	(60° – 80°)	896.8	B1		G1
BVH	(80° – 90°)	449.8			G0
		8.7			
Upward					
UL	(90° – 100°)	0		U0	
UH	(100° – 180°)	0.0		U0	
Trapped Light					
Total Flux					
		0			
		9904			
		100.0			

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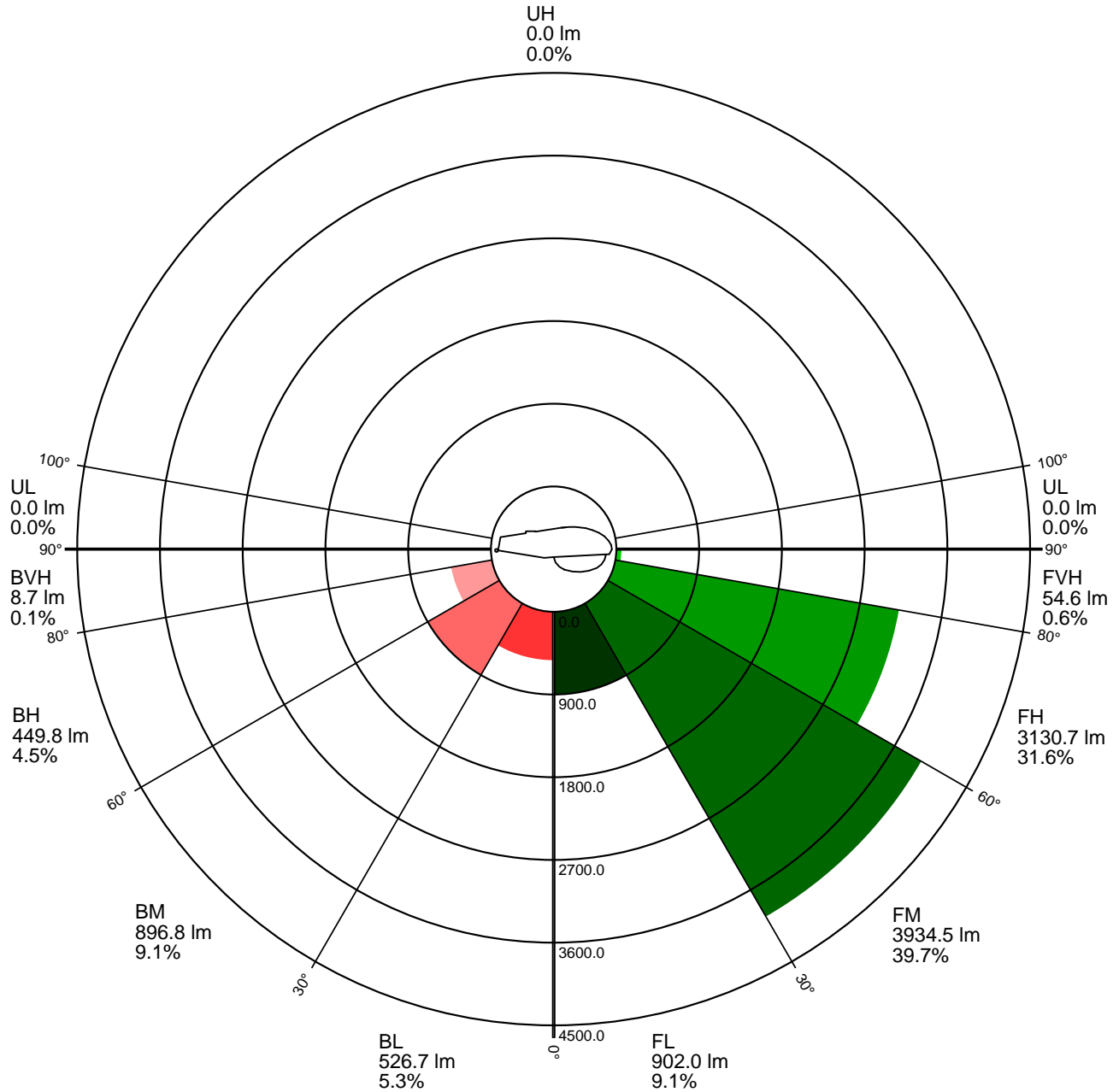
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## Zonal Lumen Summary

(Linear scale)



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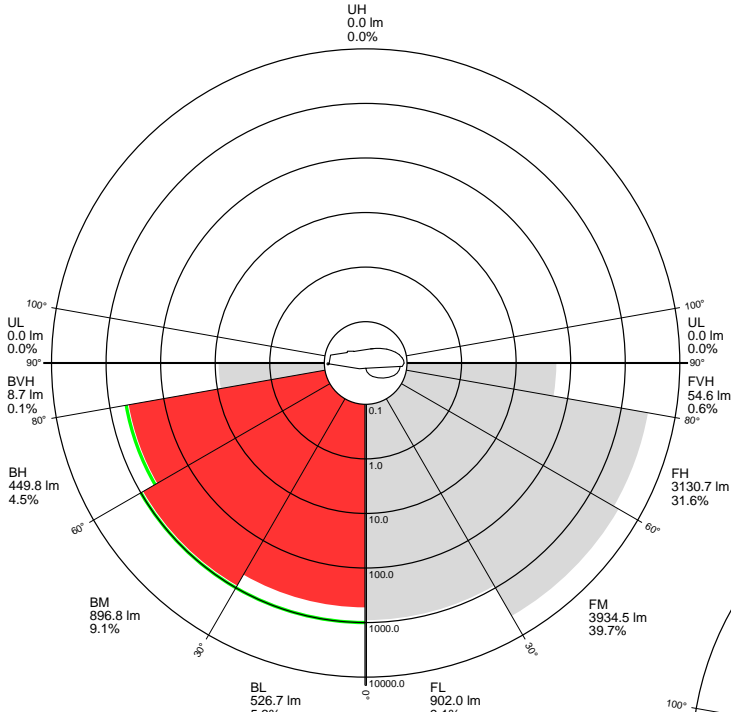
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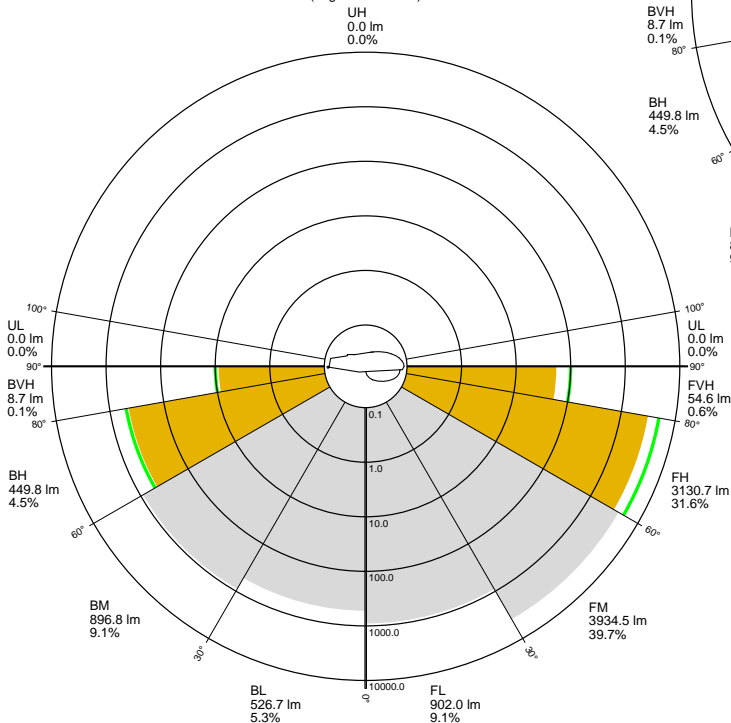
### Backlight Rating Details

(Logarithmic scale)



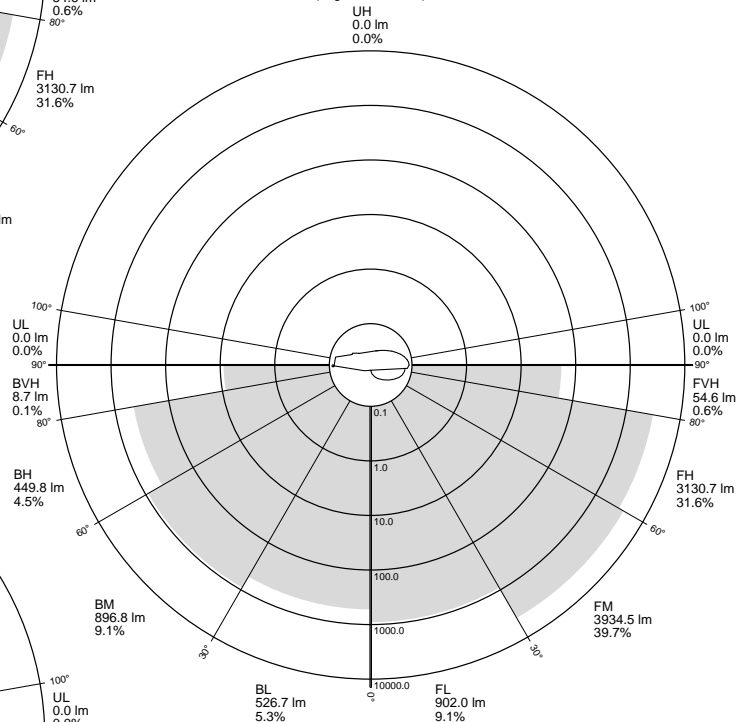
### Glare Rating Details

(Logarithmic scale)



### Uplight Rating Details

(Logarithmic scale)



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### CANDELA TABULATION

	LATERAL ANGLE										
	STREET SIDE	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	80.0
											85.0
	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	1.	1.	2.	3.	5.	6.	8.	18.	11.	9.
	85.0	2.	2.	4.	5.	7.	14.	50.	30.	34.	36.
V	82.5	6.	4.	8.	12.	48.	110.	217.	270.	312.	280.
E	80.0	12.	9.	40.	104.	179.	348.	773.	1027.	1271.	1074.
R	77.5	22.	22.	135.	248.	454.	908.	1706.	2796.	3411.	3248.
T	75.0	37.	70.	264.	503.	925.	1538.	2562.	4372.	6599.	6410.
I	72.5	91.	169.	451.	833.	1388.	2268.	3554.	4922.	8340.	8808.
C	70.0<<	211.	300.	650.	1173.	1905.	3044.	4393.	5570.	8499.	9110.
A	67.5	408.	432.	902.	1557.	2471.	3782.	4779.	6259.	7118.	7896.
L	65.0	640.	632.	1212.	1987.	3055.	4291.	5156.	6551.	6598.	6279.
	62.5	853.	885.	1528.	2421.	3439.	4500.	5295.	6551.	6044.	5606.
A	60.0	1044.	1147.	1802.	2667.	3662.	4597.	5466.	6314.	5845.	5415.
N	57.5	1210.	1366.	1944.	2846.	3683.	4546.	5552.	5824.	5618.	5418.
G	55.0	1427.	1540.	2043.	2853.	3693.	4603.	5475.	5558.	5308.	4978.
L	52.5	1645.	1716.	2090.	2964.	3791.	4704.	5225.	5247.	4696.	4287.
E	50.0	1882.	1905.	2238.	3088.	3936.	4641.	5030.	4836.	4219.	3870.
	47.5	2063.	2108.	2426.	3204.	3941.	4359.	4680.	4401.	3796.	3538.
	45.0	2205.	2266.	2569.	3220.	3822.	4056.	4084.	4004.	3590.	3305.
	42.5	2307.	2376.	2635.	3126.	3529.	3800.	3637.	3594.	3316.	3183.
	40.0	2350.	2395.	2630.	2902.	3294.	3494.	3480.	3320.	3124.	3075.
	37.5	2314.	2331.	2589.	2720.	3010.	3294.	3267.	3200.	3037.	2971.
	35.0	2242.	2239.	2398.	2476.	2782.	3000.	3103.	3155.	2883.	2777.
	32.5	2159.	2165.	2310.	2353.	2550.	2741.	2952.	3016.	2817.	2705.
	30.0	2098.	2133.	2282.	2305.	2477.	2578.	2763.	2771.	2645.	2618.
	25.0	1997.	2022.	2098.	2203.	2184.	2279.	2361.	2368.	2365.	2364.
	20.0	1910.	1912.	1968.	2113.	2135.	2151.	2092.	2132.	2149.	2107.
	15.0	1930.	1918.	1944.	2012.	2082.	2091.	2078.	2082.	2012.	1971.
	10.0	1882.	1882.	1897.	1906.	1953.	1992.	2013.	2010.	1993.	1971.
	5.0	1844.	1847.	1852.	1852.	1858.	1850.	1849.	1847.	1860.	1840.
	0.0	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.

||  
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	6.	5.	6.	5.	4.	4.	4.	3.	2.	2.
	85.0	17.	11.	8.	6.	6.	6.	5.	3.	3.	2.
V	82.5	143.	61.	43.	14.	9.	7.	6.	7.	7.	6.
E	80.0	565.	306.	139.	51.	21.	7.	8.	9.	8.	7.
R	77.5	1662.	805.	135.	44.	20.	8.	8.	9.	8.	8.
T	75.0	3463.	1350.	164.	66.	19.	13.	7.	8.	8.	7.
I	72.5	5255.	1830.	657.	165.	21.	15.	8.	8.	8.	7.
C	70.0<<	6153.	2344.	956.	260.	33.	15.	8.	9.	9.	7.
A	67.5	5819.	2924.	1470.	338.	44.	17.	9.	9.	10.	7.
L	65.0	4933.	2893.	1898.	407.	109.	24.	14.	11.	11.	9.
	62.5	4332.	2917.	1602.	475.	264.	48.	20.	14.	13.	11.
A	60.0	4128.	3050.	1508.	604.	447.	69.	27.	25.	27.	16.
N	57.5	3879.	3026.	1371.	662.	555.	148.	36.	30.	37.	18.
G	55.0	3658.	3038.	1283.	719.	555.	242.	50.	35.	48.	18.
L	52.5	3351.	2990.	1427.	846.	532.	306.	128.	43.	54.	18.
E	50.0	3018.	2819.	1513.	1011.	571.	317.	202.	89.	38.	21.
	47.5	2955.	2731.	1553.	1053.	583.	309.	246.	154.	84.	51.
	45.0	2932.	2656.	1617.	1048.	599.	351.	252.	201.	166.	92.
	42.5	2867.	2575.	1718.	1070.	621.	398.	244.	208.	184.	120.
	40.0	2765.	2474.	1883.	1124.	675.	437.	282.	201.	176.	126.
	37.5	2667.	2421.	2017.	1188.	755.	483.	341.	236.	157.	126.
	35.0	2513.	2401.	2021.	1277.	814.	557.	383.	300.	190.	147.
	32.5	2484.	2410.	2047.	1363.	900.	624.	437.	345.	240.	190.
	30.0	2422.	2355.	2000.	1449.	1010.	685.	492.	376.	271.	245.
	25.0	2235.	2174.	1905.	1640.	1178.	879.	636.	475.	385.	357.
	20.0	2040.	2016.	1823.	1615.	1384.	1107.	903.	724.	622.	591.
	15.0	1922.	1917.	1820.	1697.	1580.	1449.	1272.	1094.	1008.	1000.
	10.0	1934.	1929.	1864.	1791.	1695.	1604.	1509.	1425.	1385.	1344.
	5.0	1809.	1801.	1779.	1764.	1742.	1702.	1676.	1668.	1647.	1637.
	0.0	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.	1798.

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	43
5- 10	127
10- 15	209
15- 20	275
20- 25	345
25- 30	429
30- 35	525
35- 40	630
40- 45	747
45- 50	872
50- 55	981
55- 60	1077
60- 65	1120
65- 70	1124
70- 75	926
75- 80	410
80- 85	60
85- 90	3
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	170
0- 20	655
0- 30	1429
0- 40	2583
0- 50	4202
0- 60	6260
0- 70	8505
0- 80	9841
0- 90	9904
0-100	9904
0-110	9904
0-120	9904
0-130	9904
0-140	9904
0-150	9904
0-160	9904
0-170	9904
0-180	9904