

REPORT NUMBER: PRORATED FROM RAB04284

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ISSUE DATE: 05/8/18

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: ALED4T78N - RWLED4T78N - RWLED4T78SFN - WPLED4T78N (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.

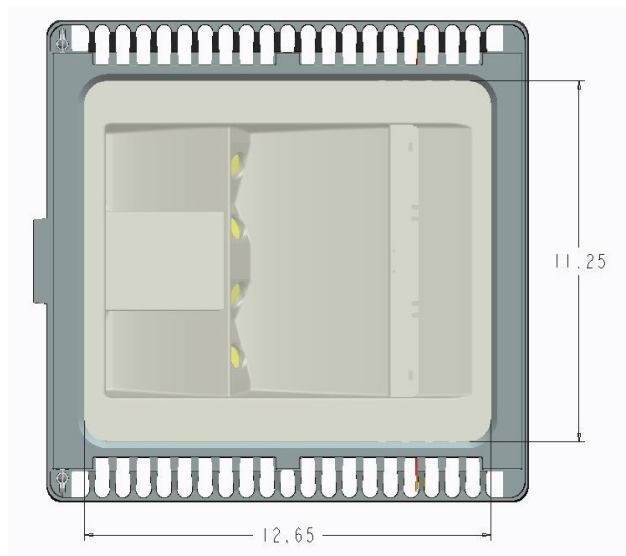
ABSOLUTE: NOTE: THIS REPORT WAS PRORATED FROM RAB04284 WHICH WAS ALED4T150Y. ACTUAL PERFORMANCE MAY VARY.

WATT: TOTAL INPUT WATTS = 75.2 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

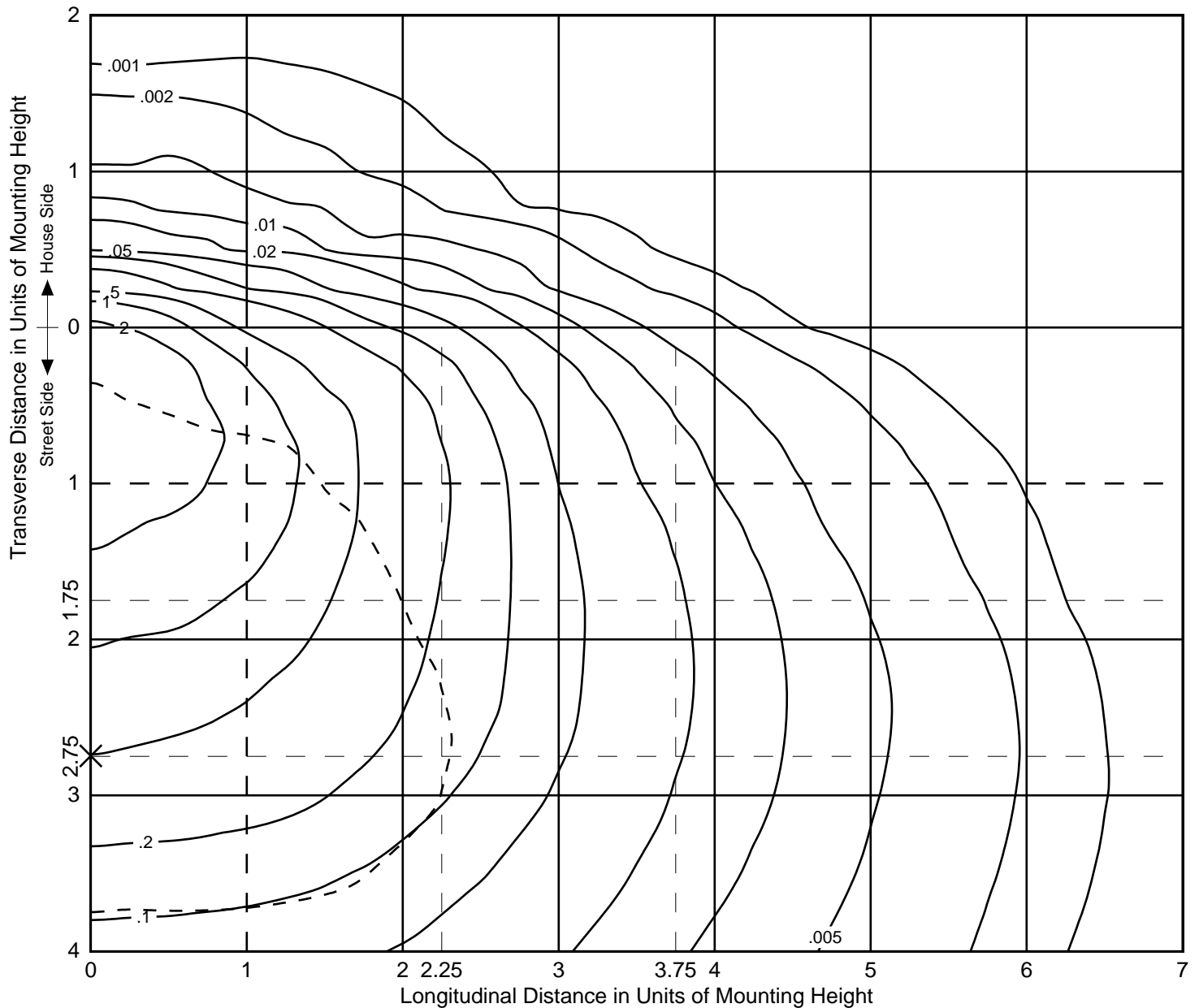
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



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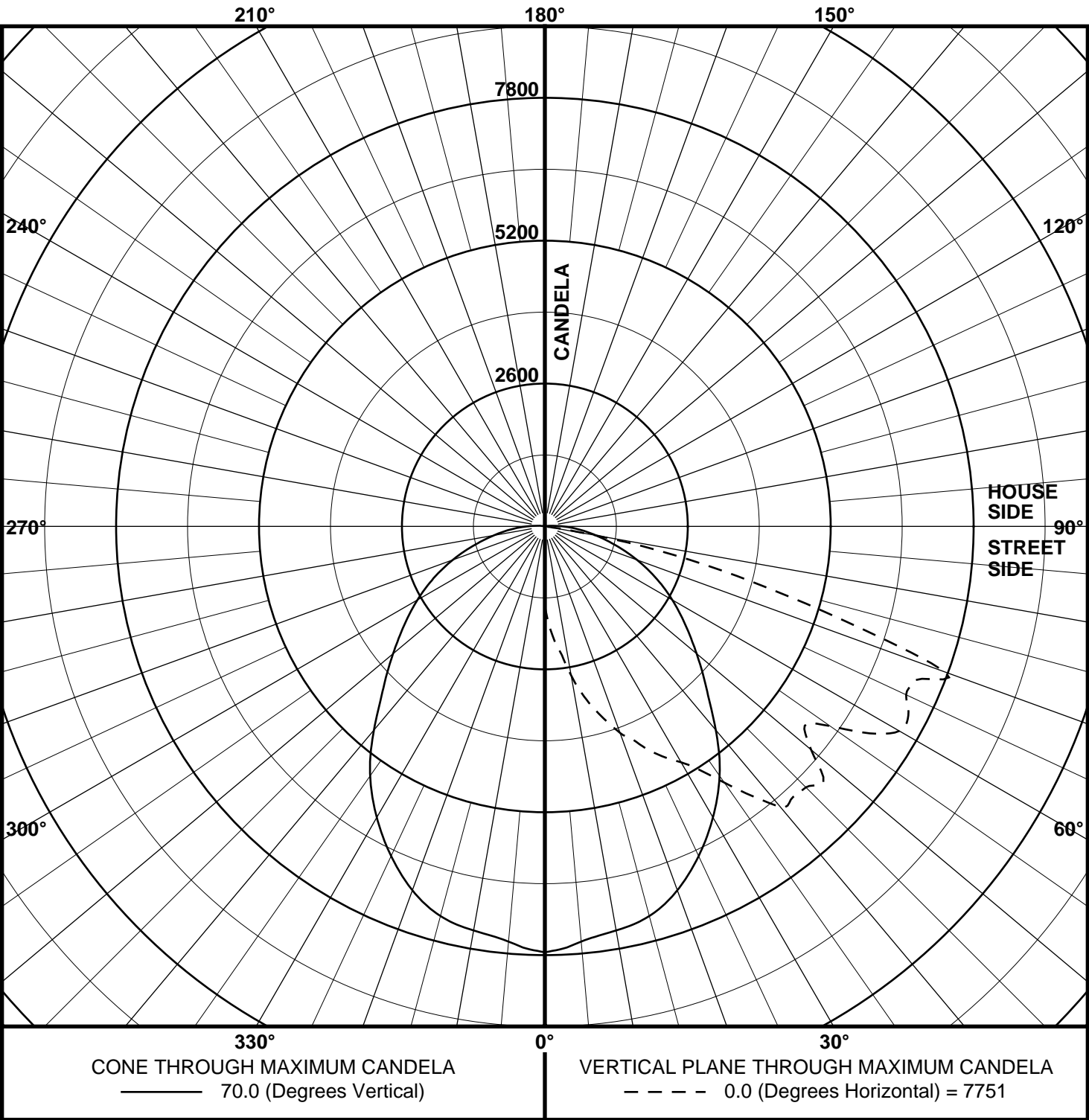
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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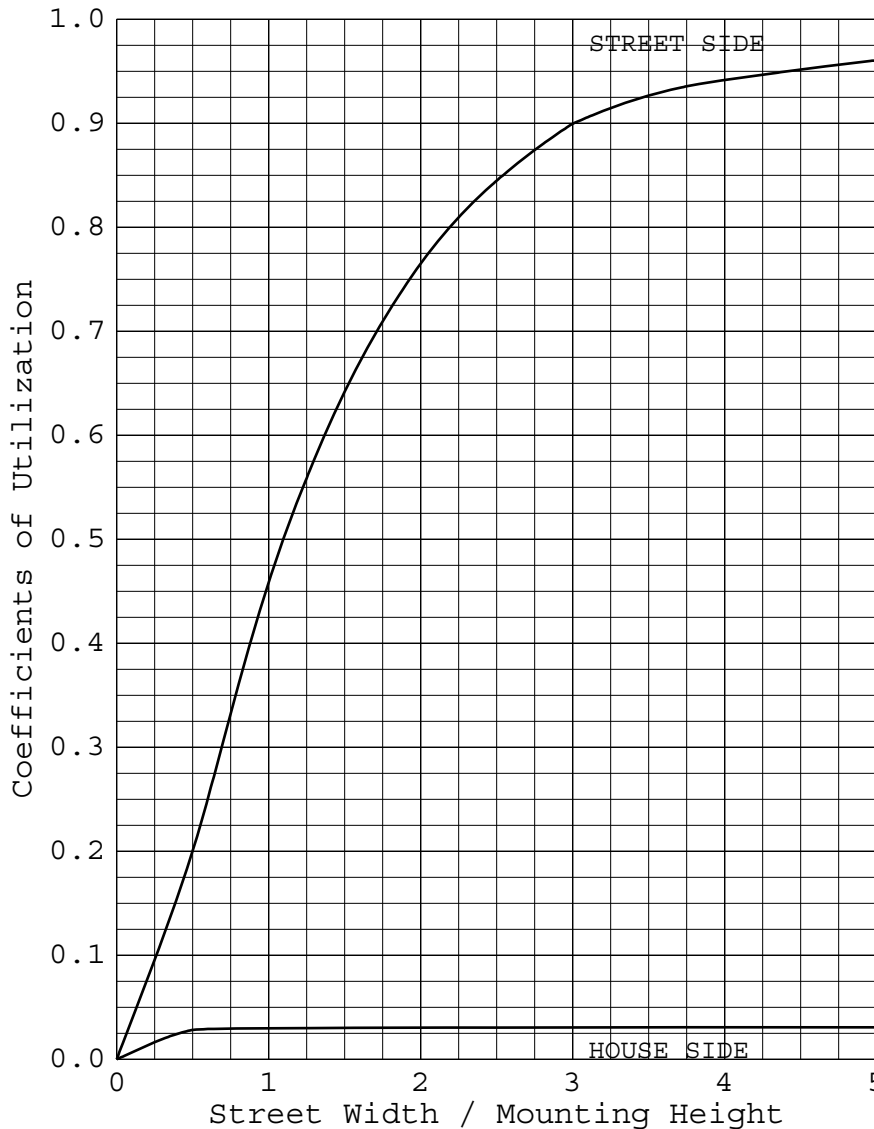
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	9475	96.8
DOWNWARD HOUSE SIDE	311	3.2
DOWNWARD TOTAL	9786	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	9786	100.0

EFFICACY = 130.1 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			B1 U0 G2		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	9475			
FM	(30° – 60°)	1153.0			
FH	(60° – 80°)	4599.4			
FVH	(80° – 90°)	3628.3			G2
		94.4			G1
Backward					
BL	(0° – 30°)	311			
BM	(30° – 60°)	167.1	B1		
BH	(60° – 80°)	111.5	B0		
BVH	(80° – 90°)	28.0	B0		G0
		4.5			G0
Upward					
UL	(90° – 100°)	0			
UH	(100° – 180°)	0.0		U0	
		0.0		U0	
Trapped Light					
Total Flux					
		0			
		9786			
		100.0			

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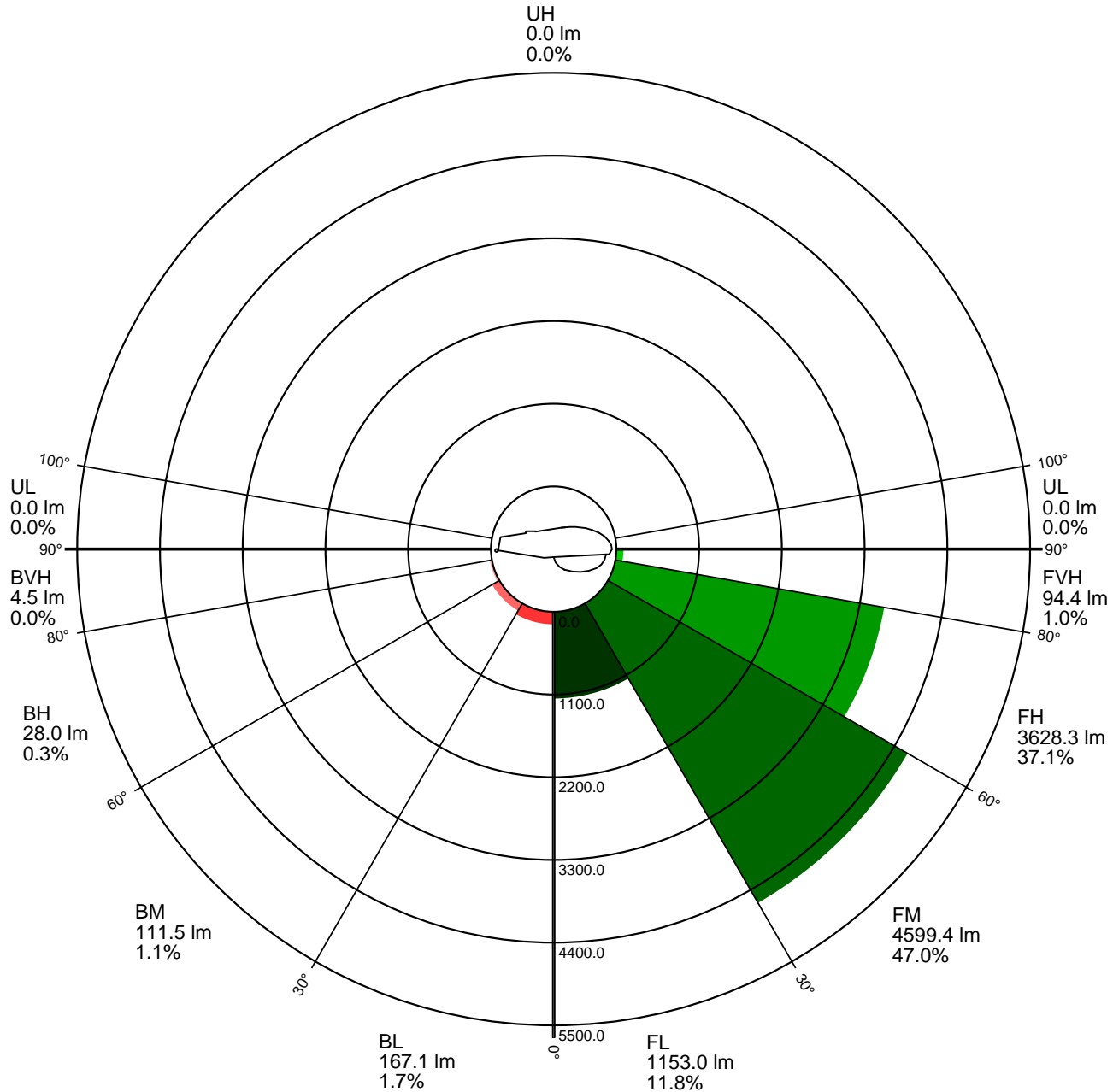
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Zonal Lumen Summary

(Linear scale)



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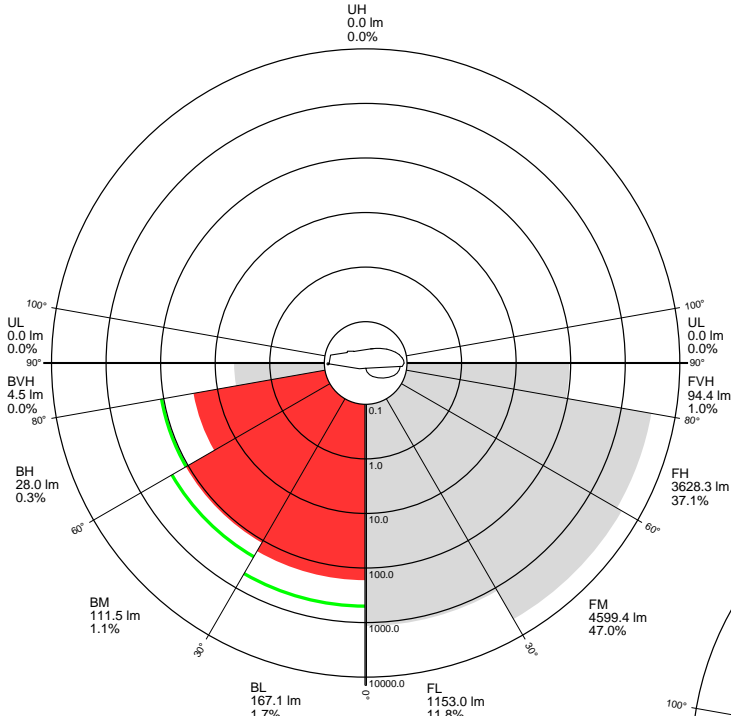
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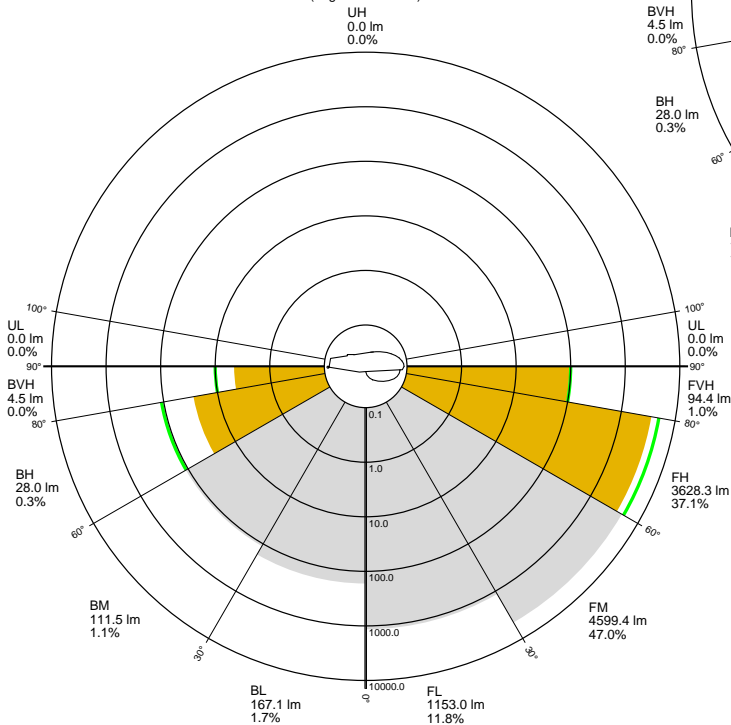
Backlight Rating Details

(Logarithmic scale)



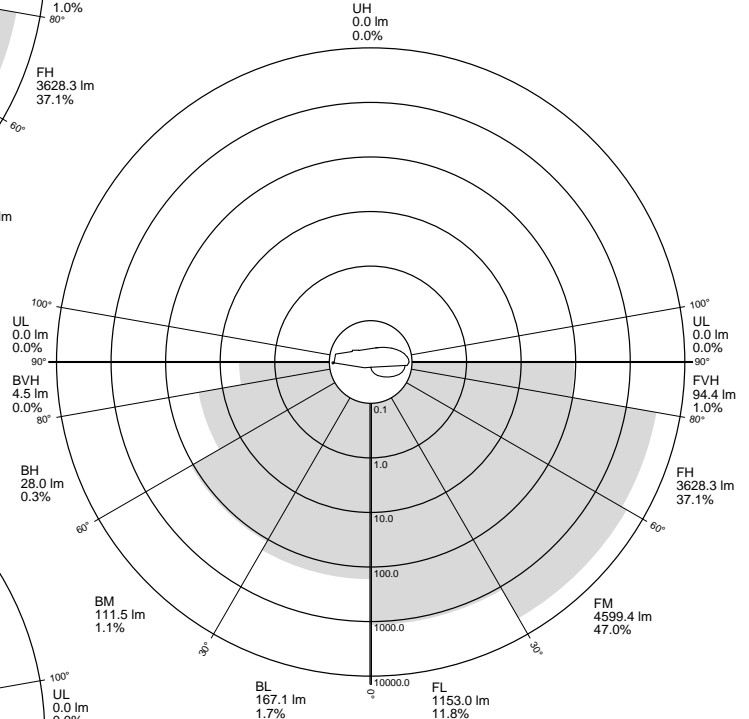
Glare Rating Details

(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	11.	13.	15.	14.	16.	9.	11.	12.	12.	12.	12.
	85.0	33.	33.	34.	65.	132.	86.	66.	42.	49.	21.	13.
V	82.5	93.	99.	108.	183.	363.	362.	389.	247.	168.	62.	26.
E	80.0	922.	944.	987.	1103.	1454.	1161.	1011.	836.	597.	263.	100.
R	77.5	2415.	2396.	2417.	2661.	2822.	2478.	1961.	1435.	885.	432.	181.
T	75.0	3912.	3866.	3903.	4128.	4391.	4046.	3272.	2017.	1237.	599.	264.
I	72.5	5717.	5667.	5632.	6020.	6273.	5192.	3850.	2577.	1581.	879.	416.
C	70.0<<	7751.	7690.	7583.	7341.	6619.	5543.	4154.	3120.	2234.	1337.	617.
A	67.5	7306.	7197.	7056.	6980.	6443.	5857.	4544.	3471.	2735.	1773.	896.
L	65.0	7252.	7111.	6928.	7063.	6527.	5997.	4737.	3785.	2942.	2107.	1083.
	62.5	7456.	7288.	7002.	7056.	6578.	6155.	5131.	3736.	3010.	2285.	1085.
A	60.0	7444.	7240.	6886.	6776.	6415.	6139.	5377.	4019.	2976.	2264.	1005.
N	57.5	7009.	6839.	6435.	6228.	5978.	5428.	5281.	4413.	2988.	2117.	991.
G	55.0	6335.	6173.	5886.	5740.	5398.	5187.	5326.	4460.	3015.	2013.	1003.
L	52.5	5959.	5864.	5653.	5407.	5372.	5173.	5019.	4132.	2906.	1919.	1023.
E	50.0	6321.	6235.	6124.	5928.	5664.	5025.	4822.	3864.	2821.	1917.	1070.
	47.5	6873.	6790.	6615.	6050.	5710.	5245.	4485.	3585.	2726.	1919.	1065.
	45.0	6716.	6667.	6544.	5998.	5798.	5131.	4082.	3325.	2639.	1883.	1102.
	42.5	6680.	6642.	6550.	6176.	5694.	4670.	3869.	3217.	2587.	1858.	1170.
	40.0	6662.	6614.	6530.	6142.	5223.	4389.	3764.	3217.	2573.	1803.	1189.
	37.5	6177.	6109.	6030.	5598.	4803.	4196.	3668.	3169.	2569.	1842.	1216.
	35.0	5693.	5621.	5519.	5061.	4533.	4001.	3604.	3103.	2491.	1864.	1306.
	32.5	5261.	5220.	5145.	4711.	4275.	3844.	3465.	3043.	2440.	1853.	1354.
	30.0	4958.	4927.	4871.	4423.	4106.	3702.	3315.	2908.	2420.	1854.	1410.
	25.0	4499.	4478.	4444.	4068.	3757.	3409.	3066.	2732.	2326.	1857.	1484.
	20.0	4001.	3979.	3965.	3761.	3453.	3177.	2883.	2546.	2160.	1816.	1470.
	15.0	3423.	3419.	3392.	3291.	3069.	2825.	2566.	2303.	2024.	1833.	1493.
	10.0	2758.	2756.	2745.	2671.	2531.	2374.	2205.	2076.	1928.	1743.	1486.
	5.0	2115.	2127.	2109.	2076.	2038.	1992.	1928.	1839.	1722.	1607.	1479.
	0.0	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.

||
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
V E R T I C A L A N G L E	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	12.	12.	12.	11.	11.	10.	9.	8.	7.	7.	6.
	85.0	13.	13.	12.	11.	10.	10.	9.	7.	6.	5.	5.
	82.5	19.	15.	12.	11.	10.	9.	8.	7.	5.	4.	4.
	80.0	41.	17.	14.	11.	10.	9.	8.	6.	4.	4.	4.
	77.5	67.	28.	16.	12.	10.	9.	8.	6.	4.	3.	3.
	75.0	135.	37.	16.	13.	10.	9.	7.	6.	4.	3.	3.
	72.5	209.	61.	16.	13.	10.	9.	7.	6.	4.	3.	3.
	70.0<<	330.	118.	19.	14.	10.	9.	7.	6.	4.	3.	3.
	67.5	497.	147.	24.	14.	13.	9.	7.	6.	4.	3.	3.
	65.0	599.	175.	32.	15.	12.	10.	7.	6.	4.	3.	3.
	62.5	624.	203.	36.	15.	12.	10.	8.	6.	4.	3.	4.
	60.0	625.	249.	35.	24.	12.	10.	10.	7.	4.	3.	4.
	57.5	725.	289.	49.	29.	12.	10.	9.	10.	7.	5.	5.
	55.0	773.	341.	67.	28.	14.	11.	10.	10.	10.	9.	9.
	52.5	758.	386.	97.	27.	18.	13.	12.	9.	9.	9.	10.
	50.0	737.	385.	125.	29.	21.	13.	14.	14.	11.	10.	10.
	47.5	724.	394.	136.	38.	27.	15.	11.	13.	11.	10.	10.
	45.0	746.	437.	175.	47.	32.	17.	14.	9.	9.	9.	9.
	42.5	813.	495.	213.	50.	35.	24.	14.	10.	9.	9.	9.
	40.0	858.	541.	213.	67.	33.	32.	18.	14.	10.	10.	10.
37.5	878.	596.	229.	104.	34.	32.	29.	21.	14.	12.	13.	
35.0	949.	648.	256.	157.	36.	31.	41.	34.	24.	20.	22.	
32.5	1003.	682.	298.	189.	47.	36.	39.	41.	36.	33.	37.	
30.0	1068.	754.	363.	207.	88.	41.	37.	36.	38.	39.	44.	
25.0	1174.	883.	529.	295.	224.	98.	45.	36.	35.	37.	39.	
20.0	1208.	958.	660.	400.	284.	216.	158.	95.	66.	58.	60.	
15.0	1287.	1084.	854.	572.	404.	305.	267.	232.	217.	200.	205.	
10.0	1358.	1224.	990.	871.	688.	553.	487.	430.	407.	391.	403.	
5.0	1410.	1345.	1228.	1124.	1042.	974.	951.	918.	894.	859.	900.	
0.0	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	1459.	

CONE OF MAXIMUM CANDELA

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	35
5- 10	102
10- 15	174
15- 20	252
20- 25	335
25- 30	422
30- 35	518
35- 40	635
40- 45	753
45- 50	850
50- 55	913
55- 60	1041
60- 65	1140
65- 70	1128
70- 75	927
75- 80	462
80- 85	91
85- 90	8
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	137
0- 20	563
0- 30	1320
0- 40	2473
0- 50	4077
0- 60	6031
0- 70	8298
0- 80	9687
0- 90	9786
0-100	9786
0-110	9786
0-120	9786
0-130	9786
0-140	9786
0-150	9786
0-160	9786
0-170	9786
0-180	9786