

**REPORT NUMBER:** PRORATED FROM RAB04361

**PAGE:** 1 OF 10

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

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T50Y/480 - RWLED4T50Y/480 - RWLED4T50SFY/480 -  
WPLED4T50Y/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.

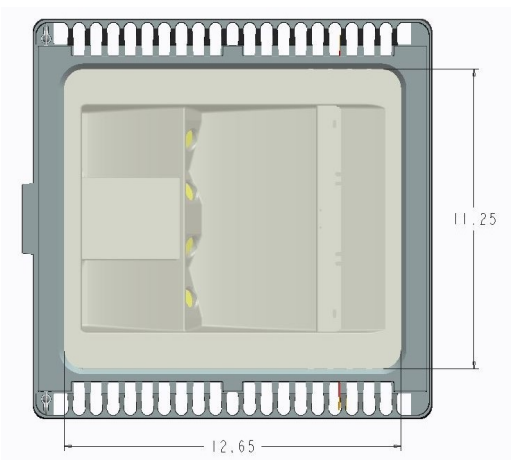
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04361 WHICH WAS  
ALED4T125Y/480. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 53.6 W AT 480.0 VAC.

**LED DRIVER:** LED DRIVER: RDD-H65-36A-A1400-480

**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

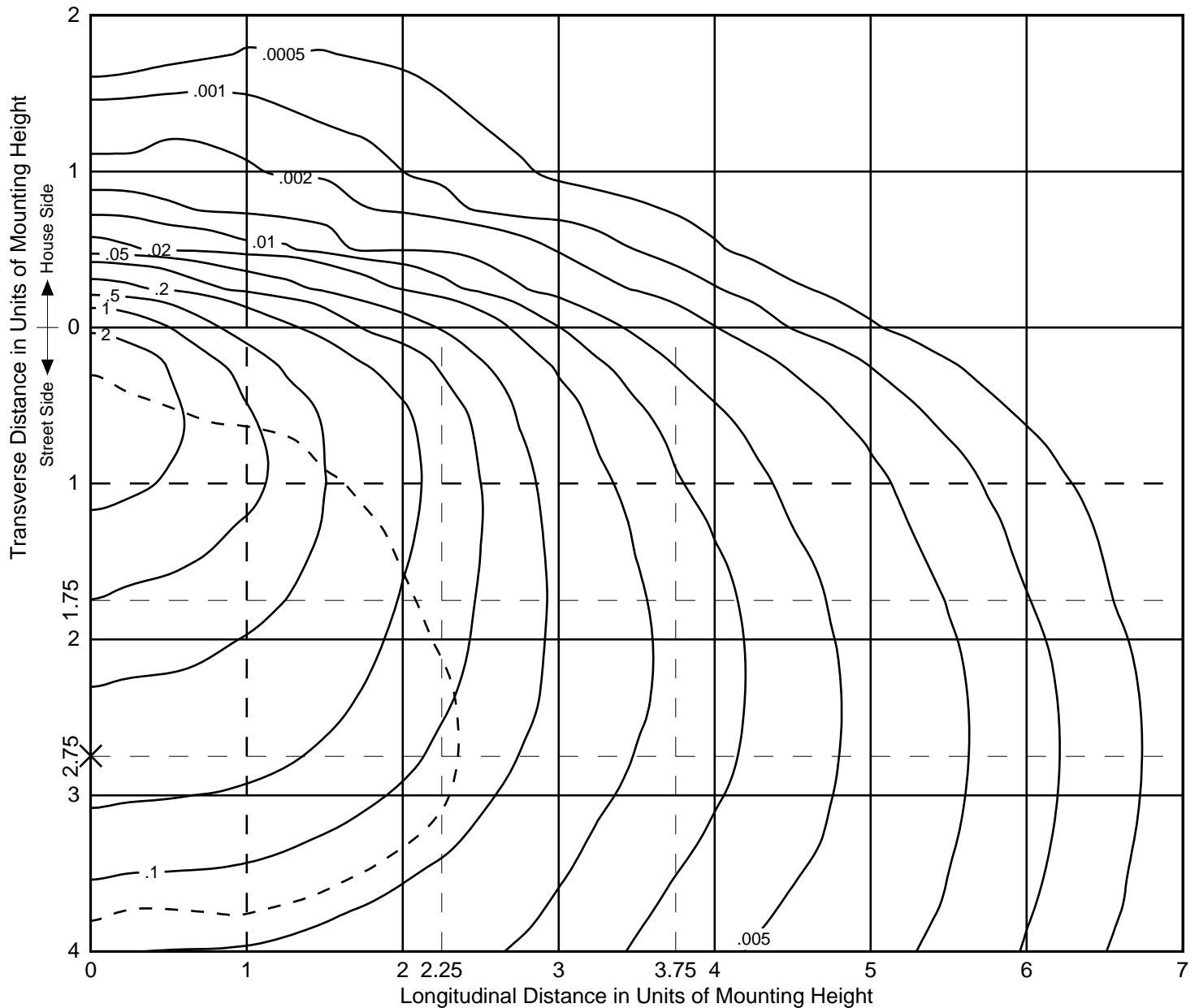
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — 1/2 Maximum Candela trace

× Maximum Candela point



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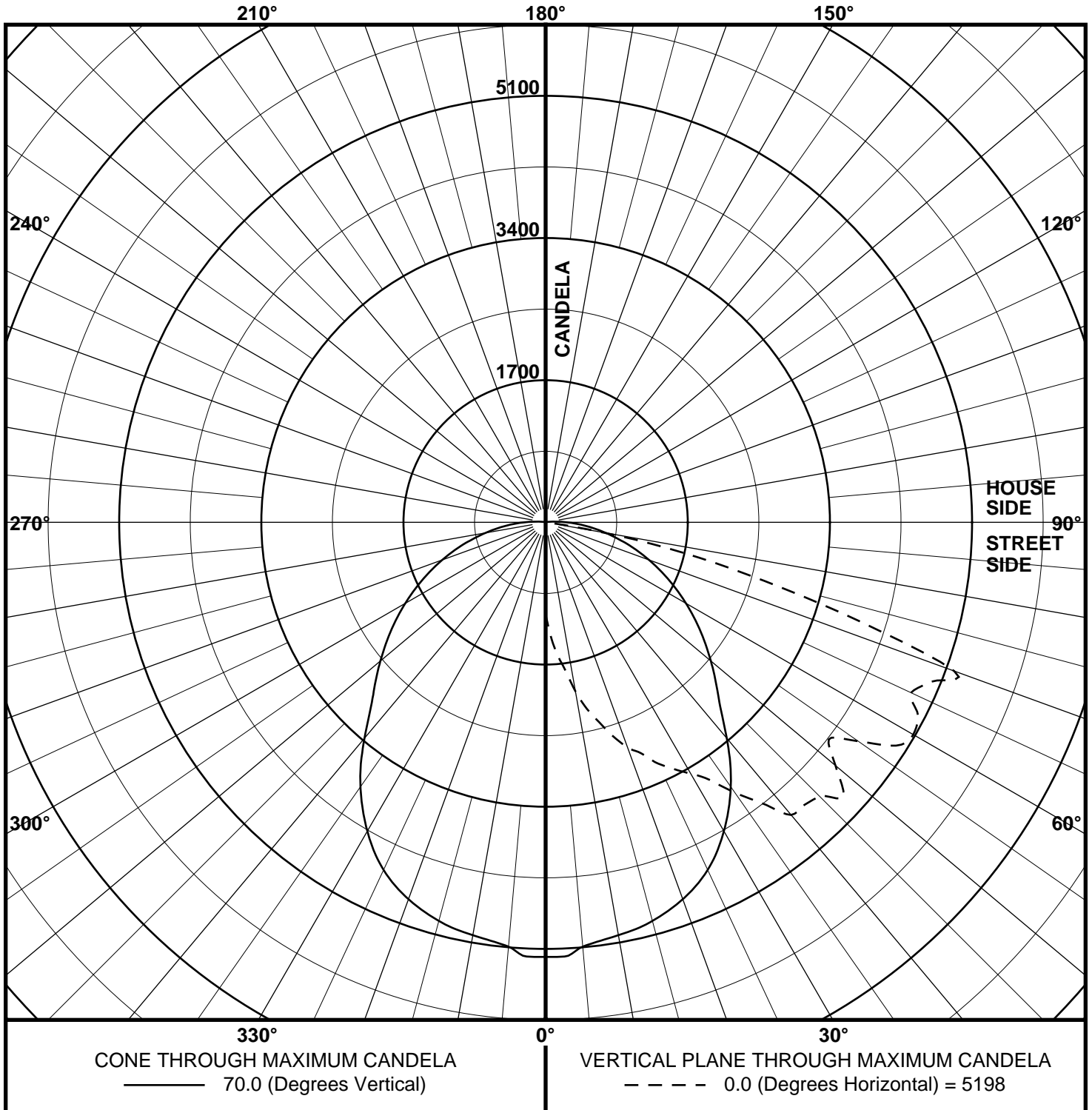
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**MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA**



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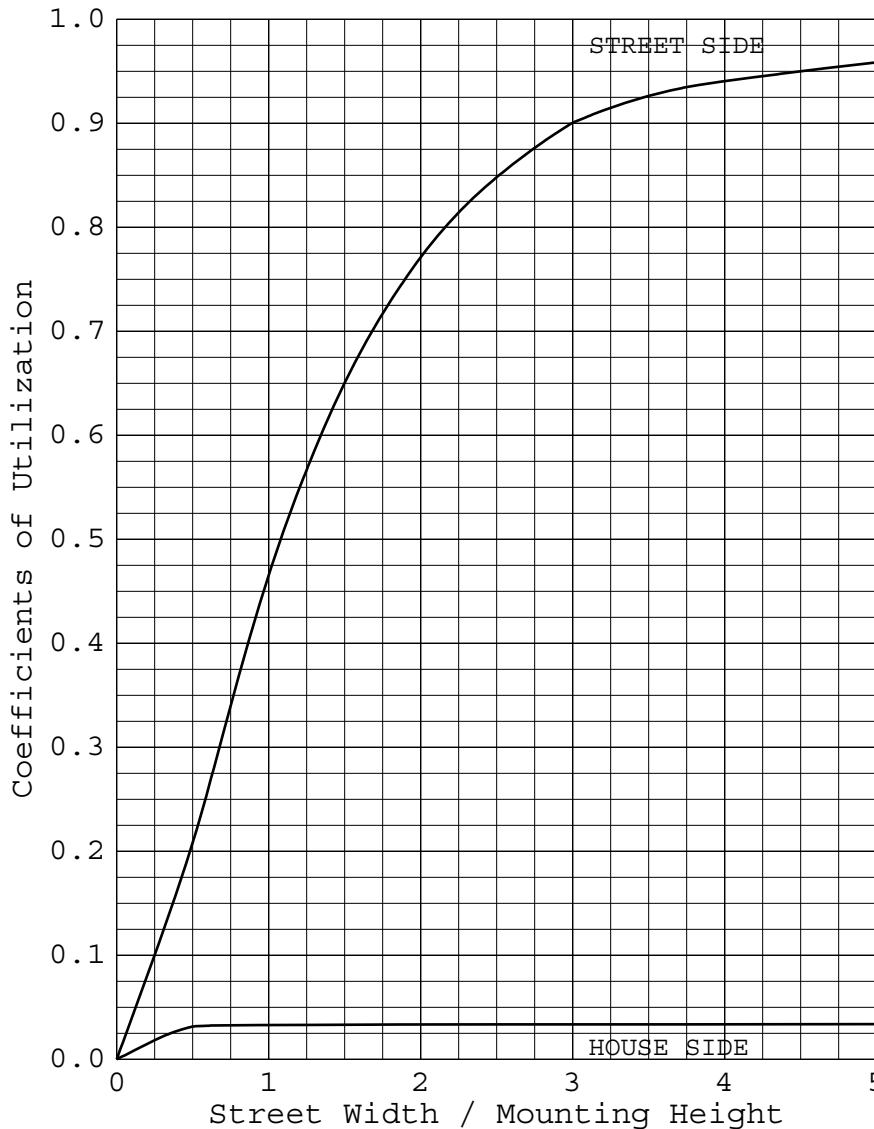
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### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	6720	96.5
DOWNWARD HOUSE SIDE	241	3.5
DOWNWARD TOTAL	6961	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	6961	100.0

EFFICACY = 129.9 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°)	6720			
FM	(30° – 60°)	842.0			
FH	(60° – 80°)	3288.9			
FVH	(80° – 90°)	2526.0			G2
		63.1			G1
Backward					
BL	(0° – 30°)	241			
BM	(30° – 60°)	3.5	B1		
BH	(60° – 80°)	130.8	B0		
BVH	(80° – 90°)	86.3	B0		G0
		20.7			G0
		2.9			
Upward					
UL	(90° – 100°)	0		U0	
UH	(100° – 180°)	0.0		U0	
Trapped Light		0			
Total Flux		6961			
		100.0			

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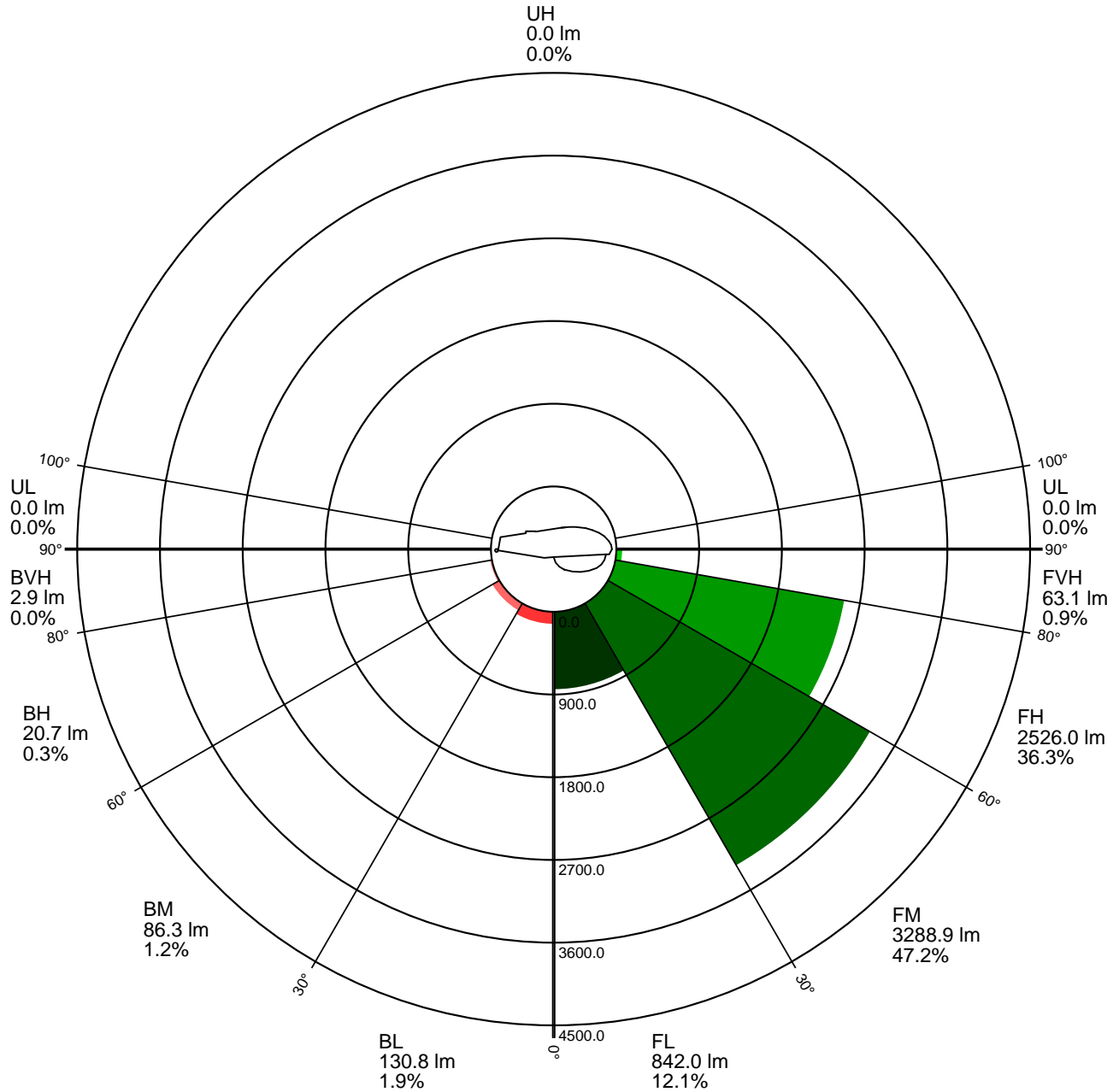
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## Zonal Lumen Summary

(Linear scale)



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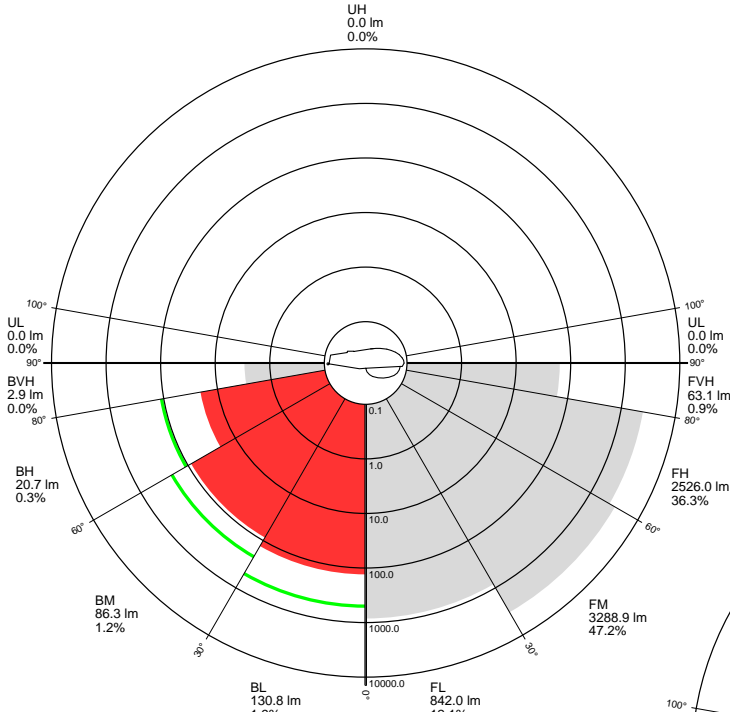
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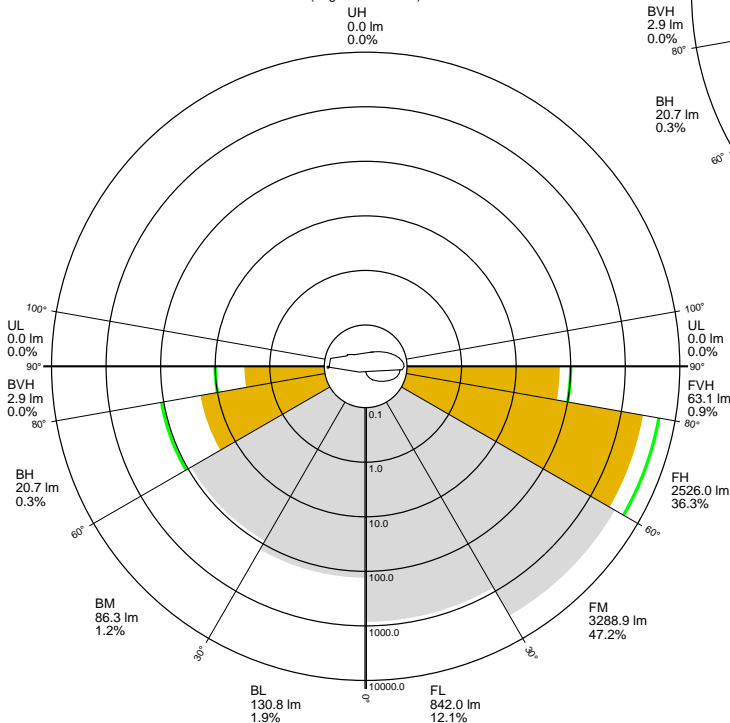
### Backlight Rating Details

(Logarithmic scale)



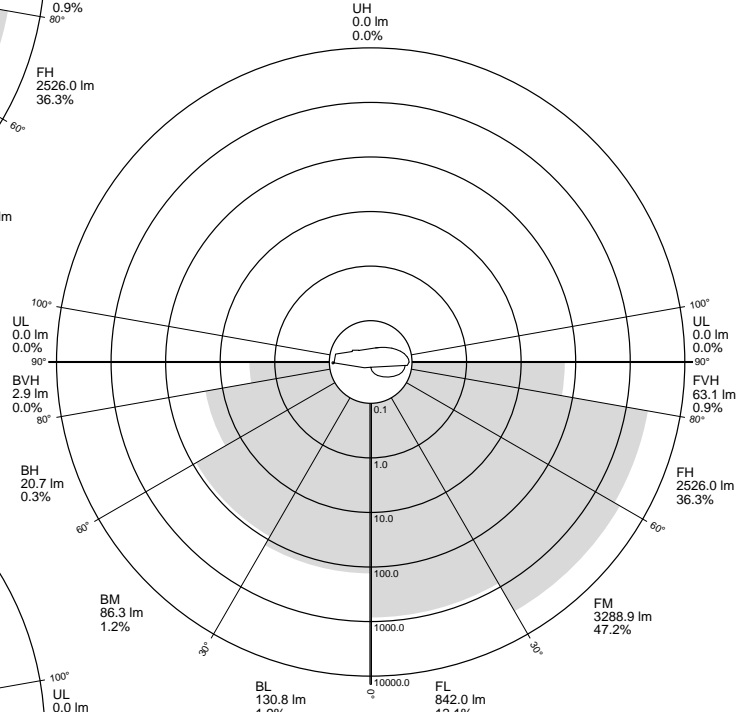
### Glare Rating Details

(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	8.	8.	7.	7.	6.	6.	7.	8.	8.	8.	8.
	85.0	20.	19.	18.	41.	70.	52.	33.	27.	32.	14.	9.
V	82.5	72.	68.	61.	122.	210.	267.	235.	165.	106.	47.	17.
E	80.0	701.	674.	631.	794.	923.	836.	675.	630.	415.	198.	75.
R	77.5	1691.	1651.	1597.	1841.	1837.	1709.	1277.	1038.	681.	340.	145.
T	75.0	2703.	2650.	2567.	2833.	2872.	2823.	2207.	1410.	856.	453.	210.
I	72.5	3936.	3867.	3747.	4102.	4189.	3614.	2702.	1832.	1144.	623.	307.
C	70.0<<	5198.	5198.	5093.	4935.	4586.	3862.	2917.	2256.	1624.	1014.	477.
A	67.5	4983.	4881.	4801.	4728.	4446.	4086.	3154.	2502.	1999.	1349.	706.
L	65.0	4822.	4766.	4646.	4778.	4508.	4205.	3291.	2695.	2163.	1605.	850.
	62.5	5023.	4930.	4748.	4830.	4546.	4370.	3626.	2731.	2185.	1724.	865.
A	60.0	5076.	4919.	4688.	4660.	4573.	4533.	3952.	2948.	2156.	1695.	800.
N	57.5	4968.	4792.	4530.	4413.	4342.	4029.	3874.	3172.	2173.	1588.	766.
G	55.0	4565.	4430.	4209.	4094.	3985.	3754.	3853.	3206.	2192.	1499.	785.
L	52.5	4268.	4192.	4024.	3891.	3849.	3646.	3581.	2961.	2142.	1436.	779.
E	50.0	4523.	4463.	4349.	4232.	4024.	3523.	3418.	2785.	2088.	1458.	806.
	47.5	4836.	4781.	4637.	4249.	3942.	3687.	3150.	2596.	2022.	1471.	806.
	45.0	4633.	4605.	4503.	4153.	4029.	3592.	2915.	2410.	1958.	1425.	843.
	42.5	4582.	4568.	4512.	4283.	3967.	3263.	2766.	2326.	1917.	1383.	897.
	40.0	4567.	4545.	4489.	4220.	3622.	3090.	2677.	2322.	1904.	1359.	921.
	37.5	4225.	4198.	4149.	3863.	3376.	2955.	2606.	2284.	1902.	1406.	944.
	35.0	3946.	3922.	3863.	3555.	3189.	2829.	2569.	2242.	1850.	1418.	1003.
	32.5	3655.	3638.	3590.	3292.	3024.	2719.	2474.	2202.	1803.	1395.	1038.
	30.0	3471.	3456.	3415.	3096.	2910.	2631.	2377.	2116.	1789.	1391.	1077.
	25.0	3183.	3178.	3151.	2879.	2678.	2457.	2229.	1992.	1734.	1406.	1133.
	20.0	2867.	2866.	2853.	2707.	2506.	2305.	2103.	1883.	1613.	1374.	1120.
	15.0	2474.	2469.	2462.	2386.	2248.	2078.	1912.	1715.	1525.	1382.	1140.
	10.0	2053.	2045.	2054.	1979.	1903.	1775.	1659.	1555.	1453.	1313.	1134.
	5.0	1582.	1588.	1584.	1567.	1536.	1497.	1455.	1382.	1301.	1217.	1116.
	0.0	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.

||  
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	8.	8.	8.	8.	7.	7.	6.	5.	4.	4.
	85.0	9.	8.	8.	8.	7.	6.	6.	4.	3.	2.
V	82.5	13.	11.	8.	8.	7.	6.	5.	4.	2.	2.
E	80.0	30.	12.	9.	7.	6.	6.	5.	4.	2.	1.
R	77.5	58.	20.	10.	8.	6.	6.	4.	3.	2.	1.
T	75.0	109.	34.	10.	8.	6.	5.	4.	3.	2.	0.
I	72.5	164.	51.	11.	8.	6.	5.	4.	3.	2.	0.
C	70.0<<	261.	87.	12.	9.	7.	5.	4.	3.	2.	0.
A	67.5	391.	115.	16.	9.	8.	6.	4.	3.	2.	0.
L	65.0	474.	148.	22.	10.	8.	6.	4.	3.	2.	0.
	62.5	478.	176.	25.	10.	8.	6.	6.	3.	2.	0.
A	60.0	489.	213.	23.	19.	7.	6.	6.	4.	2.	0.
N	57.5	570.	242.	35.	20.	8.	6.	6.	5.	4.	2.
G	55.0	589.	282.	51.	18.	9.	7.	6.	5.	4.	4.
L	52.5	570.	316.	71.	17.	10.	7.	8.	6.	4.	4.
E	50.0	564.	312.	92.	19.	15.	8.	6.	9.	6.	5.
	47.5	558.	320.	106.	28.	19.	8.	6.	5.	4.	4.
	45.0	581.	355.	140.	31.	21.	11.	8.	4.	4.	4.
	42.5	640.	402.	170.	32.	21.	17.	8.	6.	4.	4.
	40.0	672.	444.	172.	48.	22.	20.	13.	8.	5.	4.
	37.5	698.	477.	194.	78.	20.	19.	23.	17.	9.	7.
	35.0	742.	515.	221.	123.	23.	20.	27.	26.	19.	15.
	32.5	776.	550.	255.	146.	32.	23.	23.	25.	25.	25.
	30.0	824.	604.	315.	161.	70.	25.	21.	20.	22.	24.
	25.0	907.	702.	433.	235.	167.	85.	28.	22.	21.	22.
	20.0	930.	755.	517.	341.	220.	160.	114.	74.	47.	40.
	15.0	991.	842.	666.	470.	341.	247.	206.	179.	158.	151.
	10.0	1036.	940.	777.	682.	545.	460.	397.	352.	327.	321.
	5.0	1068.	1020.	939.	871.	808.	771.	739.	717.	687.	661.
	0.0	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.	1094.

CONE OF MAXIMUM CANDELA

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WPLED4T50Y/480 (TYPE IV)

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	26
5- 10	78
10- 15	131
15- 20	187
20- 25	245
25- 30	306
30- 35	372
35- 40	452
40- 45	534
45- 50	606
50- 55	658
55- 60	753
60- 65	805
65- 70	786
70- 75	639
75- 80	317
80- 85	62
85- 90	5
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	104
0- 20	422
0- 30	973
0- 40	1797
0- 50	2937
0- 60	4348
0- 70	5939
0- 80	6895
0- 90	6961
0-100	6961
0-110	6961
0-120	6961
0-130	6961
0-140	6961
0-150	6961
0-160	6961
0-170	6961
0-180	6961