

**REPORT NUMBER:** PRORATED FROM RAB04284

**PAGE:** 1 OF 10

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

**PREPARED FOR:** RAB LIGHTING INC.

**CATALOG NUMBER:** ALED4T150N - RWLED4T150N - RWLED4T150SFN - WPLED4T150N (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.

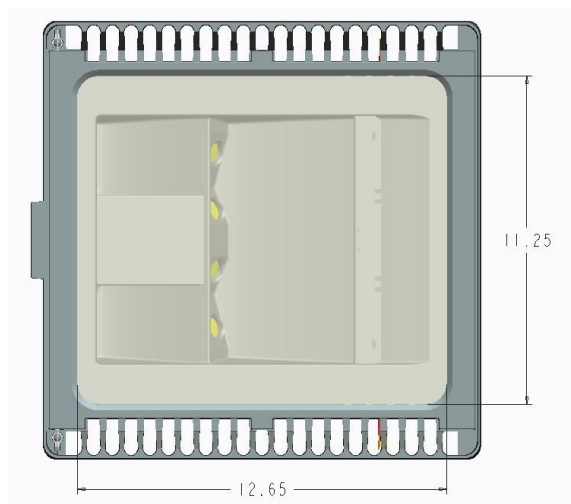
**ABSOLUTE:** NOTE: THIS REPORT WAS PRORATED FROM RAB04284 WHICH WAS ALED4T150Y. ACTUAL PERFORMANCE MAY VARY.

**WATT:** TOTAL INPUT WATTS = 156.7 W AT 120.0 VAC.

**LED DRIVER:** LED DRIVER: RDD-160

**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

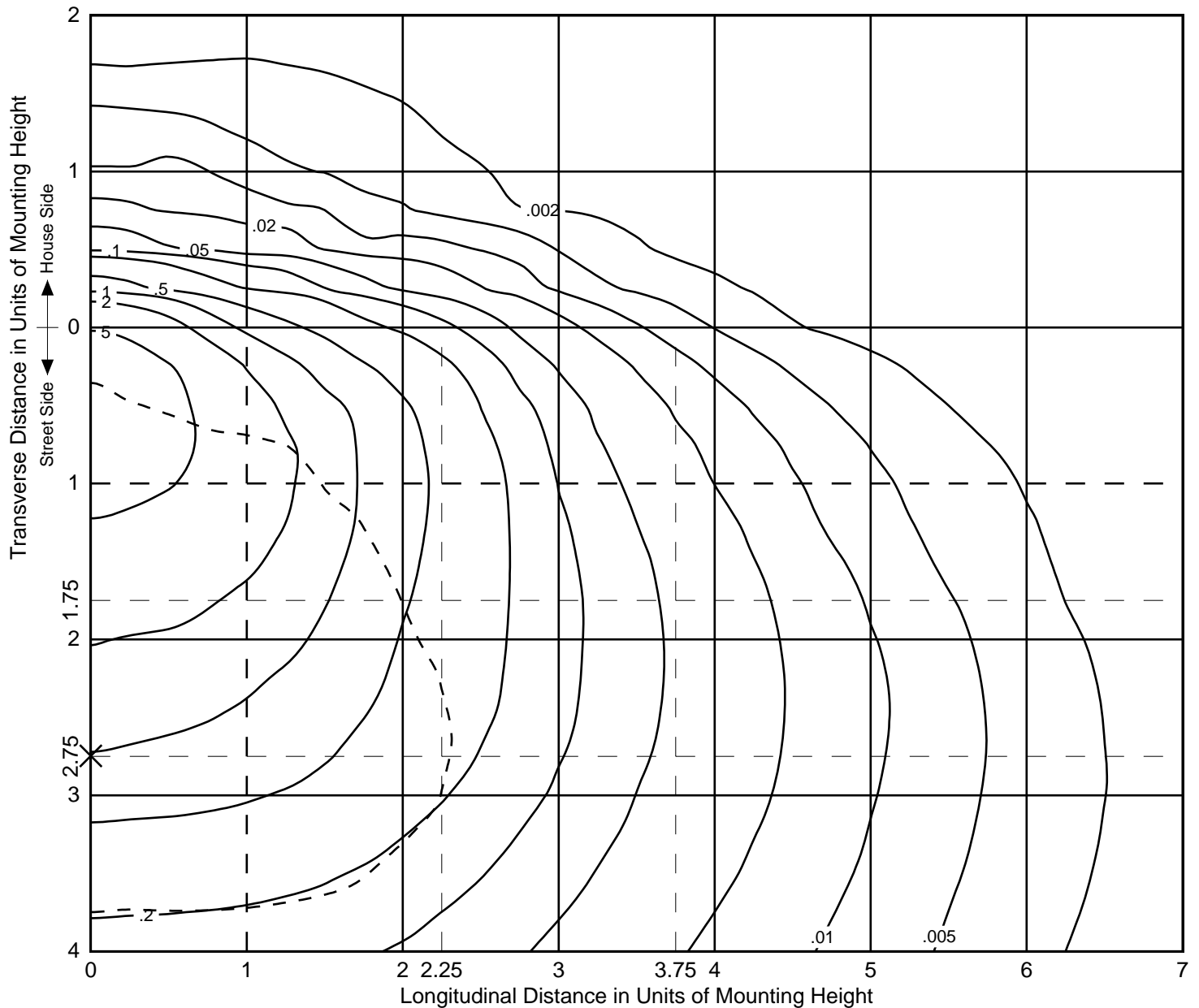
Values based on 25-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

— — — — — 1/2 Maximum Candela trace

× Maximum Candela point



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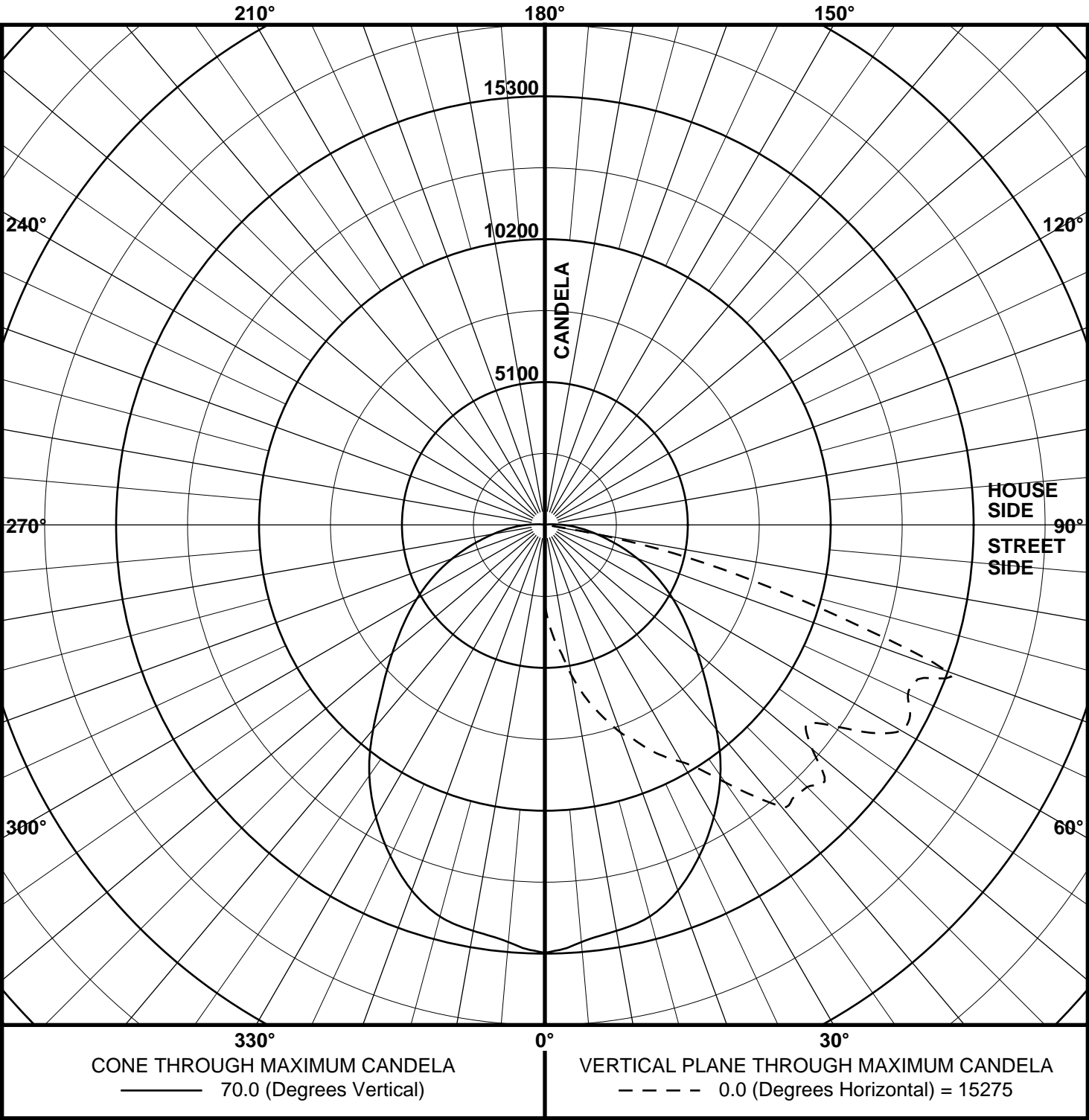
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**MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA**



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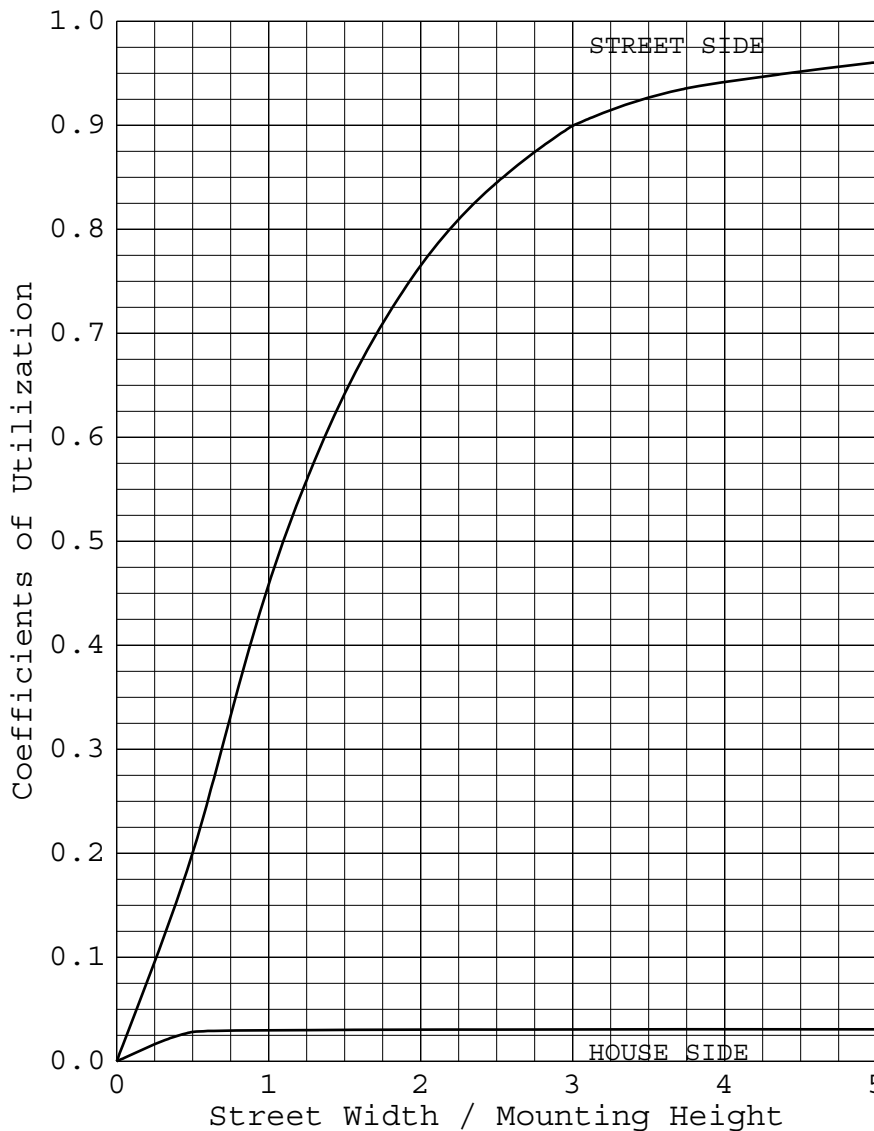
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### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	18672	96.8
DOWNWARD HOUSE SIDE	613	3.2
DOWNWARD TOTAL	19285	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	19285	100.0

EFFICACY = 123.1 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 G3		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	18672			
FM	(30° – 60°)	2272.2			
FH	(60° – 80°)	9063.9			
FVH	(80° – 90°)	7150.2			G3
		186.1			G2
Backward					
BL	(0° – 30°)	613			
BM	(30° – 60°)	329.3	B1		
BH	(60° – 80°)	219.7	B0		
BVH	(80° – 90°)	55.1	B0		G0
		8.9			G0
Upward					
UL	(90° – 100°)	0			
UH	(100° – 180°)	0.0		U0	
		0.0		U0	
Trapped Light					
Total Flux					
		0			
		19285			
		100.0			

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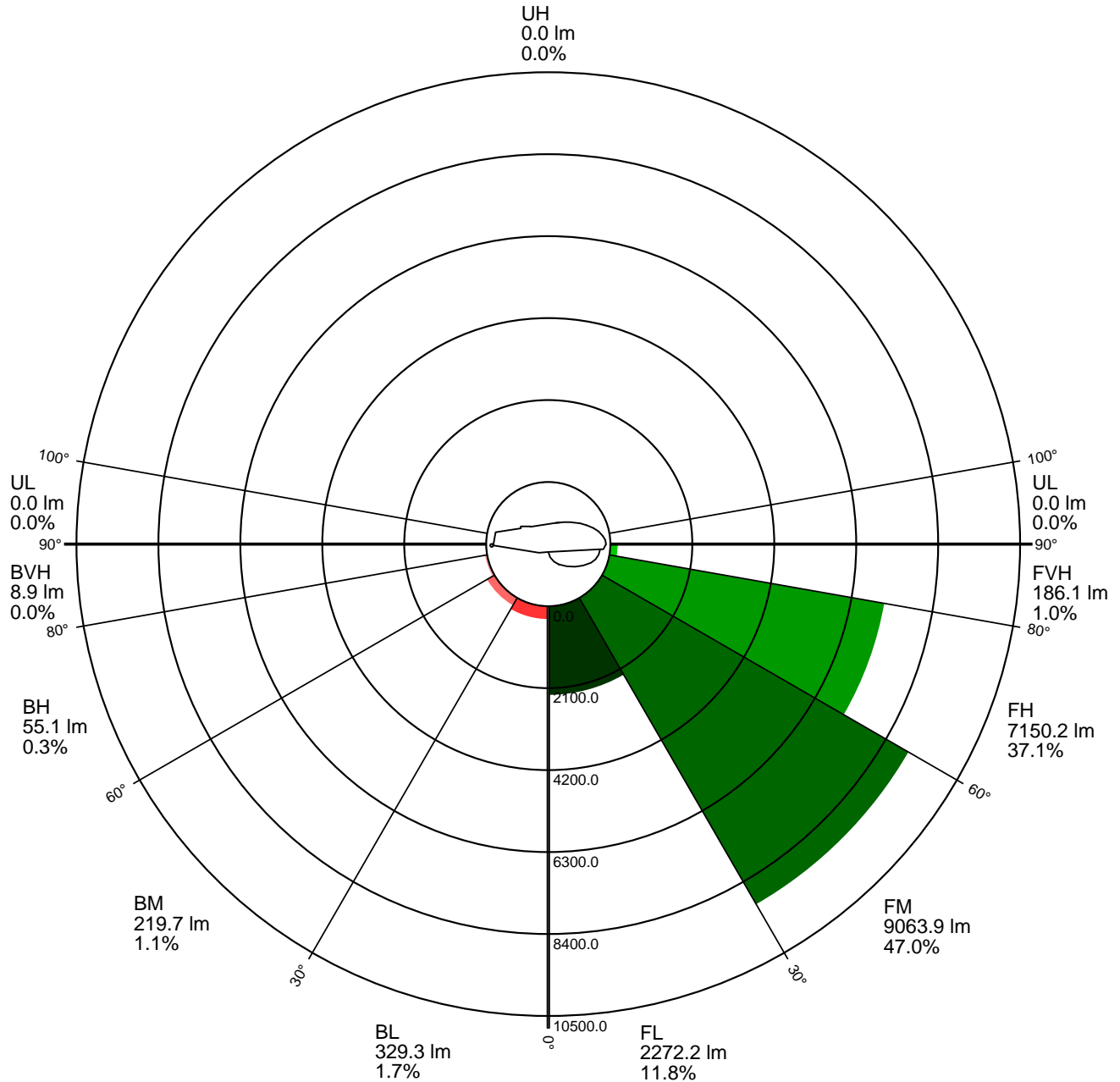
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## Zonal Lumen Summary

(Linear scale)



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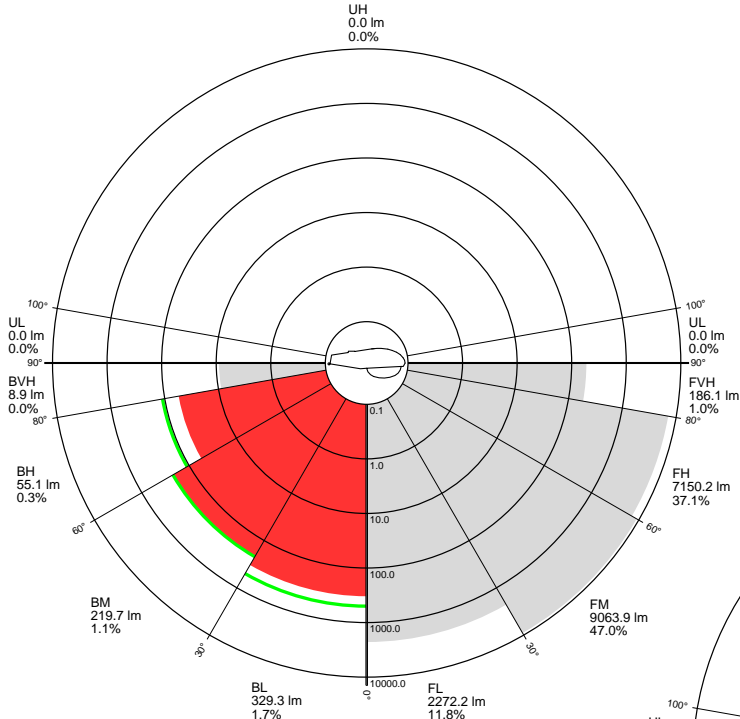
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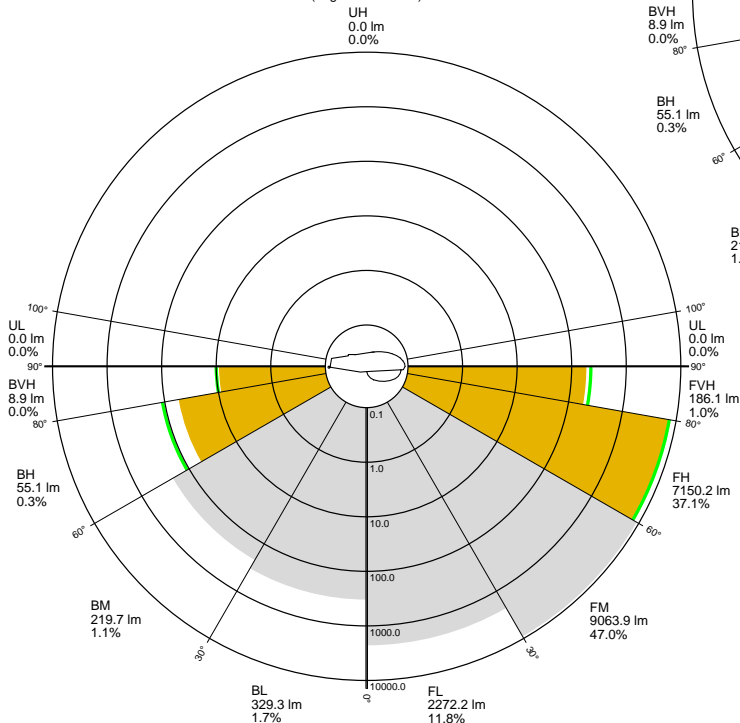
### Backlight Rating Details

(Logarithmic scale)



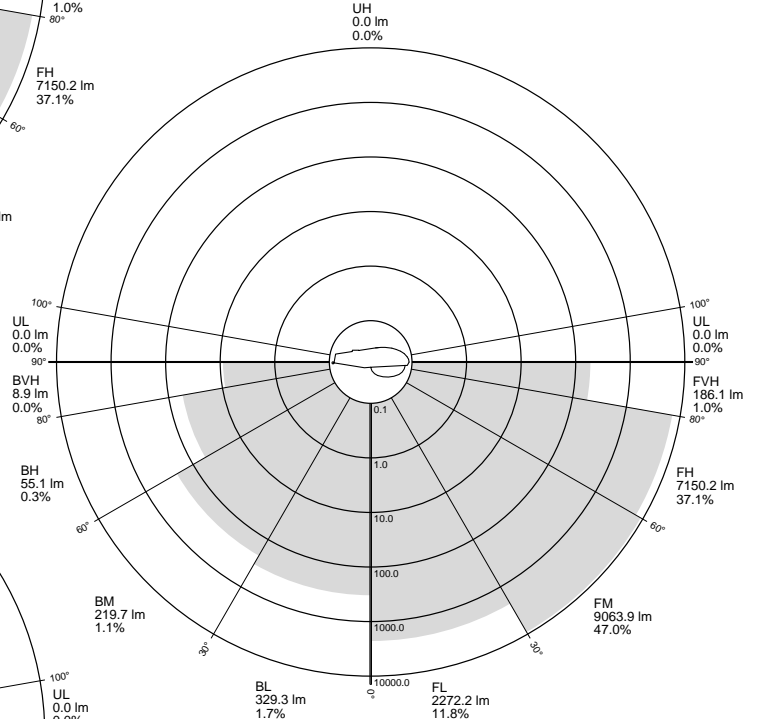
### Glare Rating Details

(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	22.	25.	30.	28.	31.	18.	22.	23.	23.	23.	24.
85.0	65.	65.	67.	127.	260.	170.	130.	83.	96.	42.	26.
V 82.5	182.	195.	213.	361.	716.	714.	767.	486.	330.	122.	52.
E 80.0	1817.	1861.	1945.	2173.	2865.	2288.	1993.	1647.	1176.	519.	198.
R 77.5	4758.	4723.	4763.	5243.	5561.	4884.	3865.	2827.	1743.	852.	357.
T 75.0	7709.	7619.	7691.	8135.	8654.	7974.	6448.	3975.	2438.	1180.	521.
I 72.5	11267.	11167.	11099.	11863.	12362.	10232.	7587.	5078.	3115.	1732.	820.
C 70.0<	15275.	15154.	14943.	14468.	13043.	10923.	8187.	6148.	4402.	2635.	1217.
A 67.5	14398.	14182.	13904.	13755.	12698.	11541.	8954.	6841.	5389.	3495.	1765.
L 65.0	14291.	14014.	13653.	13919.	12863.	11817.	9334.	7459.	5798.	4152.	2135.
62.5	14694.	14362.	13798.	13904.	12963.	12130.	10112.	7362.	5932.	4504.	2139.
A 60.0	14670.	14268.	13570.	13353.	12643.	12099.	10596.	7920.	5865.	4462.	1980.
N 57.5	13812.	13477.	12680.	12274.	11781.	10698.	10406.	8696.	5888.	4172.	1953.
G 55.0	12484.	12165.	11599.	11312.	10638.	10223.	10495.	8789.	5942.	3968.	1977.
L 52.5	11743.	11556.	11141.	10655.	10586.	10194.	9892.	8143.	5727.	3781.	2016.
E 50.0	12456.	12287.	12069.	11683.	11161.	9903.	9503.	7615.	5559.	3778.	2108.
47.5	13544.	13380.	13036.	11922.	11252.	10336.	8838.	7064.	5372.	3782.	2098.
45.0	13236.	13138.	12895.	11819.	11425.	10111.	8043.	6553.	5201.	3711.	2172.
42.5	13164.	13089.	12909.	12171.	11220.	9204.	7625.	6339.	5098.	3662.	2305.
40.0	13129.	13035.	12869.	12104.	10293.	8650.	7418.	6340.	5070.	3553.	2342.
37.5	12173.	12039.	11883.	11032.	9466.	8270.	7228.	6245.	5063.	3629.	2396.
35.0	11219.	11078.	10876.	9973.	8933.	7885.	7102.	6116.	4908.	3673.	2573.
32.5	10367.	10286.	10139.	9283.	8425.	7576.	6828.	5996.	4809.	3651.	2669.
30.0	9771.	9709.	9599.	8716.	8092.	7295.	6532.	5730.	4770.	3654.	2779.
25.0	8867.	8824.	8759.	8017.	7403.	6718.	6042.	5384.	4583.	3659.	2925.
20.0	7885.	7841.	7813.	7413.	6804.	6261.	5681.	5017.	4257.	3578.	2897.
15.0	6746.	6738.	6685.	6486.	6047.	5567.	5056.	4538.	3988.	3612.	2943.
10.0	5436.	5431.	5410.	5264.	4989.	4678.	4345.	4091.	3800.	3435.	2929.
5.0	4167.	4192.	4156.	4092.	4016.	3925.	3800.	3623.	3393.	3168.	2915.
0.0	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.

||  
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	24.	24.	23.	22.	21.	19.	17.	15.	13.	13. 12.
	85.0	25.	25.	23.	22.	20.	19.	17.	14.	11.	10. 10.
V	82.5	38.	30.	24.	22.	20.	18.	16.	13.	9.	8. 8.
E	80.0	82.	34.	28.	22.	20.	18.	15.	12.	8.	7. 7.
R	77.5	131.	55.	31.	23.	20.	17.	15.	11.	8.	6. 6.
T	75.0	266.	73.	31.	25.	20.	17.	14.	11.	7.	5. 5.
I	72.5	412.	120.	32.	26.	20.	17.	14.	11.	7.	5. 5.
C	70.0<<	650.	232.	37.	28.	20.	17.	14.	11.	7.	5. 5.
A	67.5	980.	290.	48.	28.	25.	17.	14.	11.	8.	5. 5.
L	65.0	1180.	345.	63.	30.	24.	19.	14.	11.	8.	5. 6.
	62.5	1230.	399.	71.	30.	24.	20.	16.	11.	8.	6. 7.
A	60.0	1232.	490.	68.	48.	24.	20.	20.	13.	8.	6. 7.
N	57.5	1429.	569.	96.	57.	24.	20.	18.	20.	13.	10. 10.
G	55.0	1524.	672.	131.	55.	28.	22.	19.	19.	20.	17. 18.
L	52.5	1495.	760.	192.	53.	35.	25.	24.	18.	18.	18. 19.
E	50.0	1453.	758.	247.	58.	42.	26.	28.	29.	21.	19. 19.
	47.5	1426.	776.	269.	74.	54.	30.	21.	25.	21.	20. 19.
	45.0	1469.	862.	344.	93.	63.	33.	29.	18.	18.	17. 18.
	42.5	1602.	976.	420.	99.	68.	48.	29.	20.	18.	17. 18.
	40.0	1690.	1066.	419.	132.	65.	62.	36.	28.	20.	19. 20.
	37.5	1730.	1175.	450.	206.	66.	62.	58.	41.	29.	23. 25.
	35.0	1870.	1278.	505.	309.	71.	61.	80.	67.	47.	39. 43.
	32.5	1976.	1345.	588.	373.	93.	70.	76.	82.	71.	65. 73.
	30.0	2105.	1487.	716.	409.	173.	80.	73.	71.	74.	76. 88.
	25.0	2314.	1739.	1042.	581.	441.	194.	90.	71.	69.	72. 76.
	20.0	2380.	1888.	1301.	789.	559.	425.	311.	186.	130.	115. 119.
	15.0	2537.	2137.	1682.	1128.	796.	600.	527.	457.	427.	393. 405.
	10.0	2677.	2412.	1950.	1717.	1355.	1089.	960.	847.	803.	771. 795.
	5.0	2779.	2651.	2420.	2214.	2054.	1919.	1875.	1810.	1763.	1692. 1774.
	0.0	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874.	2874. 2874.

CONE OF MAXIMUM CANDELA

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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	68
5- 10	202
10- 15	343
15- 20	496
20- 25	659
25- 30	832
30- 35	1020
35- 40	1251
40- 45	1485
45- 50	1675
50- 55	1800
55- 60	2051
60- 65	2246
65- 70	2222
70- 75	1827
75- 80	910
80- 85	180
85- 90	15
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	270
0- 20	1110
0- 30	2602
0- 40	4873
0- 50	8034
0- 60	11885
0- 70	16353
0- 80	19090
0- 90	19285
0-100	19285
0-110	19285
0-120	19285
0-130	19285
0-140	19285
0-150	19285
0-160	19285
0-170	19285
0-180	19285