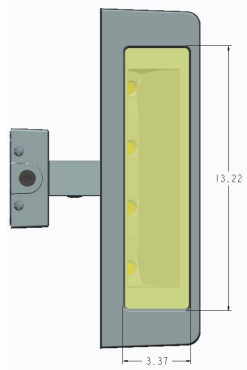


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

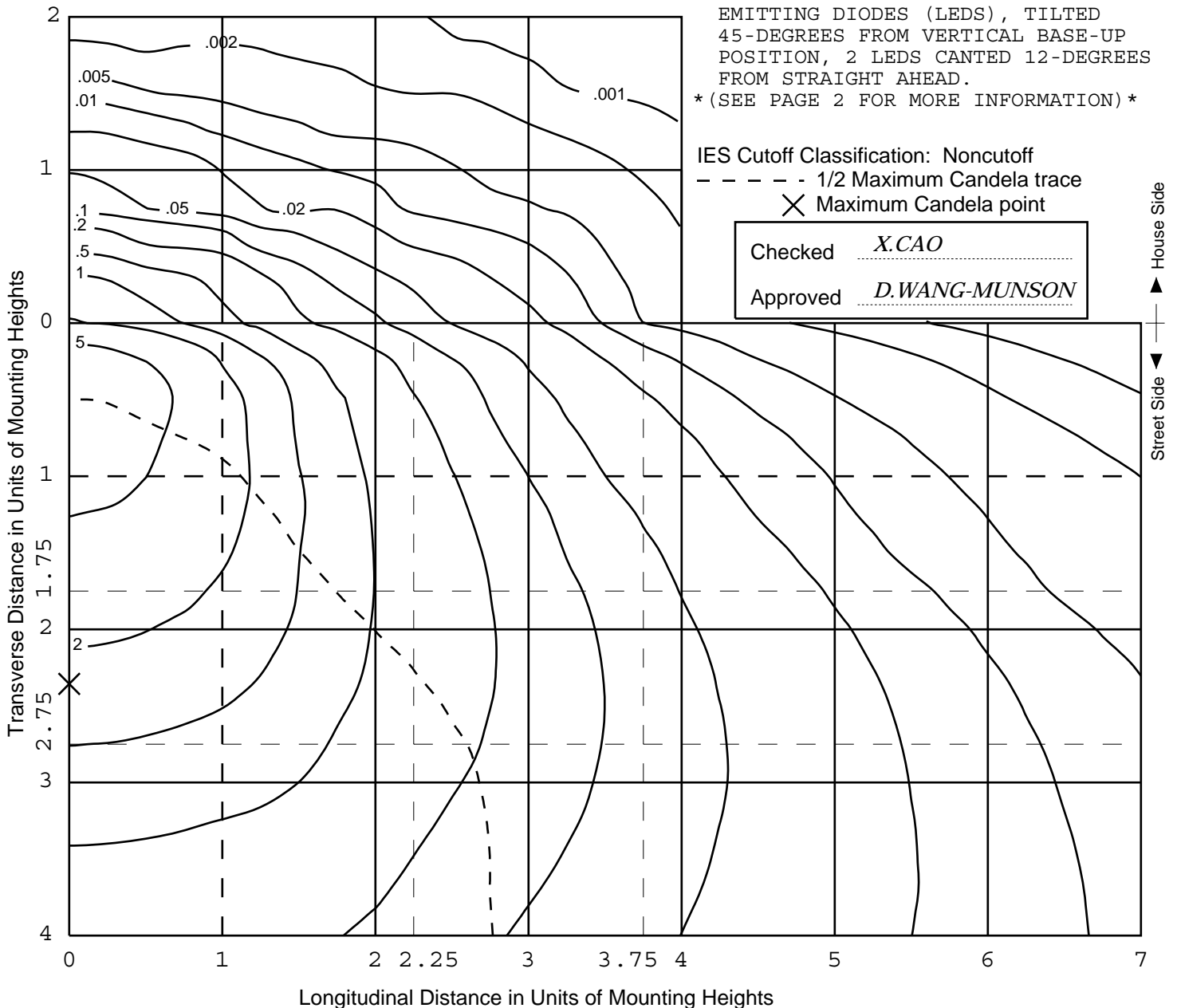
Values based on 20 foot mounting height.



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 DATE SAMPLE TESTED: 05/13/16
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: WPLED104/480 /
 ALED104/480 (15-DEGREE UPTILT)
 LUMINAIRE: CAST FINNED METAL HOUSING,
 2-PIECE EXTRUDED METAL HEAT SINK, 4
 CIRCUIT BOARDS EACH WITH 1 LED,
 MOLDED PLASTIC REFLECTOR WITH
 SPECULAR FINISH AND 1 OPTICAL
 COMPARTMENT WITH 1 APERTURE PER LED,
 CLEAR FLAT GLASS LENS IN CAST BROWN
 PAINTED METAL FRAME.
 LAMPS: FOUR WHITE MULTI-CHIP LIGHT
 EMITTING DIODES (LEDs), TILTED
 45-DEGREES FROM VERTICAL BASE-UP
 POSITION, 2 LEDS CANTED 12-DEGREES
 FROM STRAIGHT AHEAD.
 (SEE PAGE 2 FOR MORE INFORMATION)

IES Cutoff Classification: Noncutoff

--- 1/2 Maximum Candela trace
 X Maximum Candela point



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ADDITIONAL INFORMATION

NOTE: THIS REPORT WAS PRORATED FROM RAB01933 WHICH WAS WPLED104. ACTUAL PERFORMANCE MAY VARY.

TOTAL INPUT WATTS = 112.54 W AT 480.0 VAC.

LED DRIVER: RD-T150-A-700/480

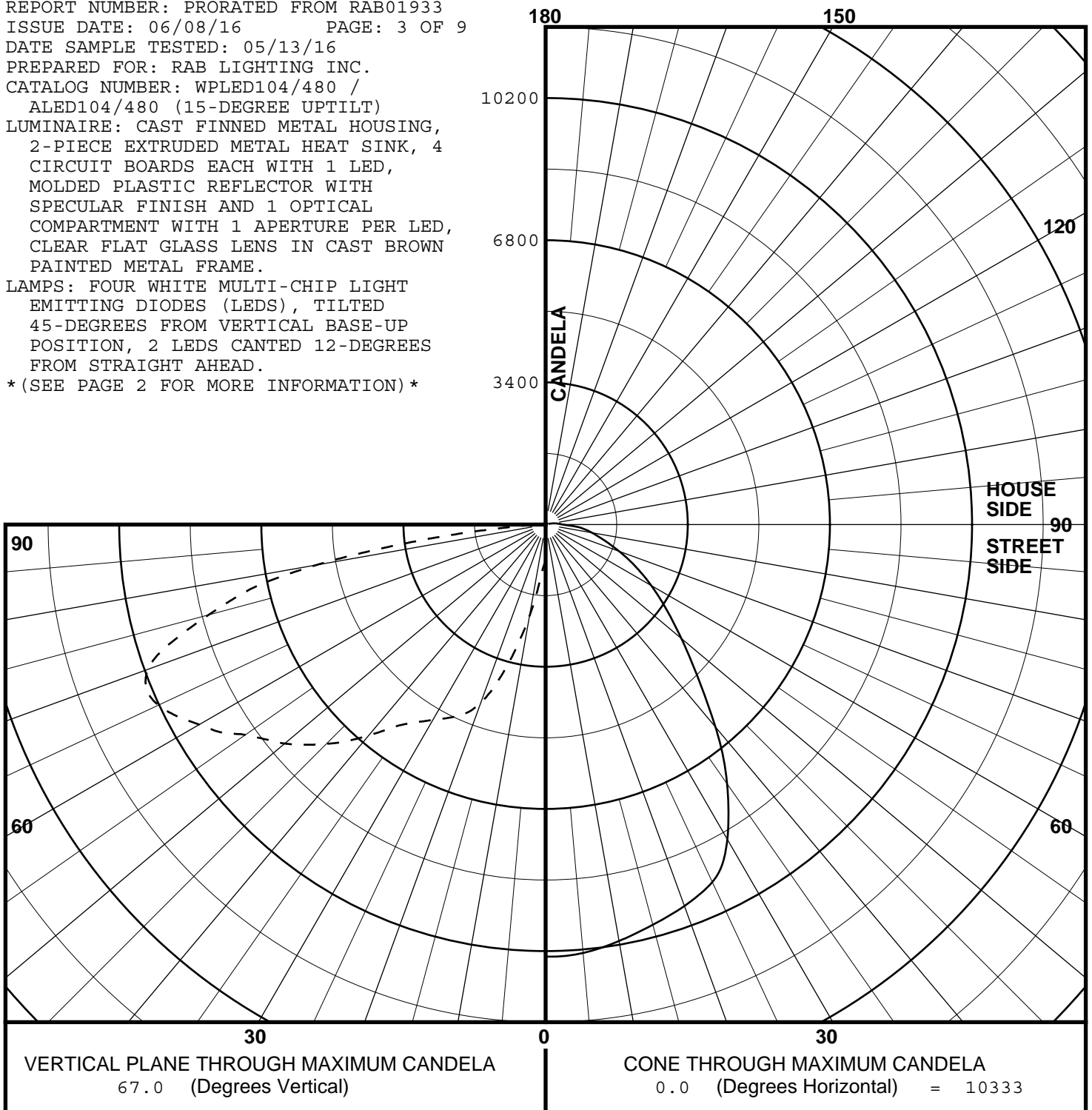
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE : 28.25 FEET

NOTE: THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

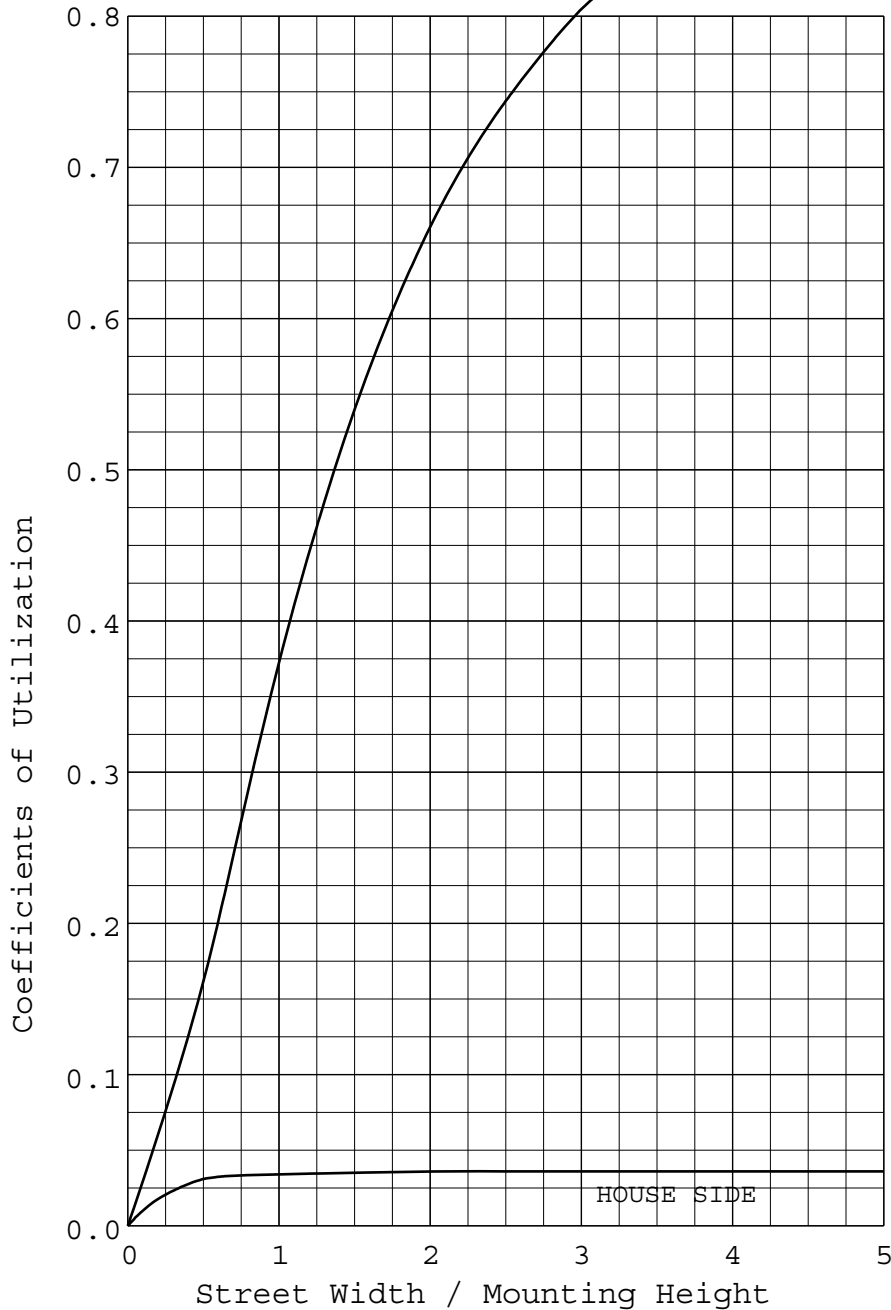
REPORT NUMBER: PRORATED FROM RAB01933
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 DATE SAMPLE TESTED: 05/13/16
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: WPLED104/480 /
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 LAMPS: FOUR WHITE MULTI-CHIP LIGHT
 EMITTING DIODES (LEDs), TILTED
 45-DEGREES FROM VERTICAL BASE-UP
 POSITION, 2 LEDS CANTED 12-DEGREES
 FROM STRAIGHT AHEAD.
 *(SEE PAGE 2 FOR MORE INFORMATION) *



REPORT NUMBER: PRORATED FROM RAB01933
 ISSUE DATE: 06/08/16 STREET SIDE
 PREPARED FOR: RAB LIGHTING INC.

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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	12726.	95.7
DOWNWARD HOUSE SIDE	485.	3.6
DOWNWARD TOTAL	13211.	99.3
UPWARD STREET SIDE	41.	0.3
UPWARD HOUSE SIDE	51.	0.4
UPWARD TOTAL	92.	0.7
TOTAL FLUX	13303.	100.0
TOTAL INPUT WATTS = 112.54		
EFFICACY = 118.2 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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 PREPARED FOR: RAB LIGHTING INC.

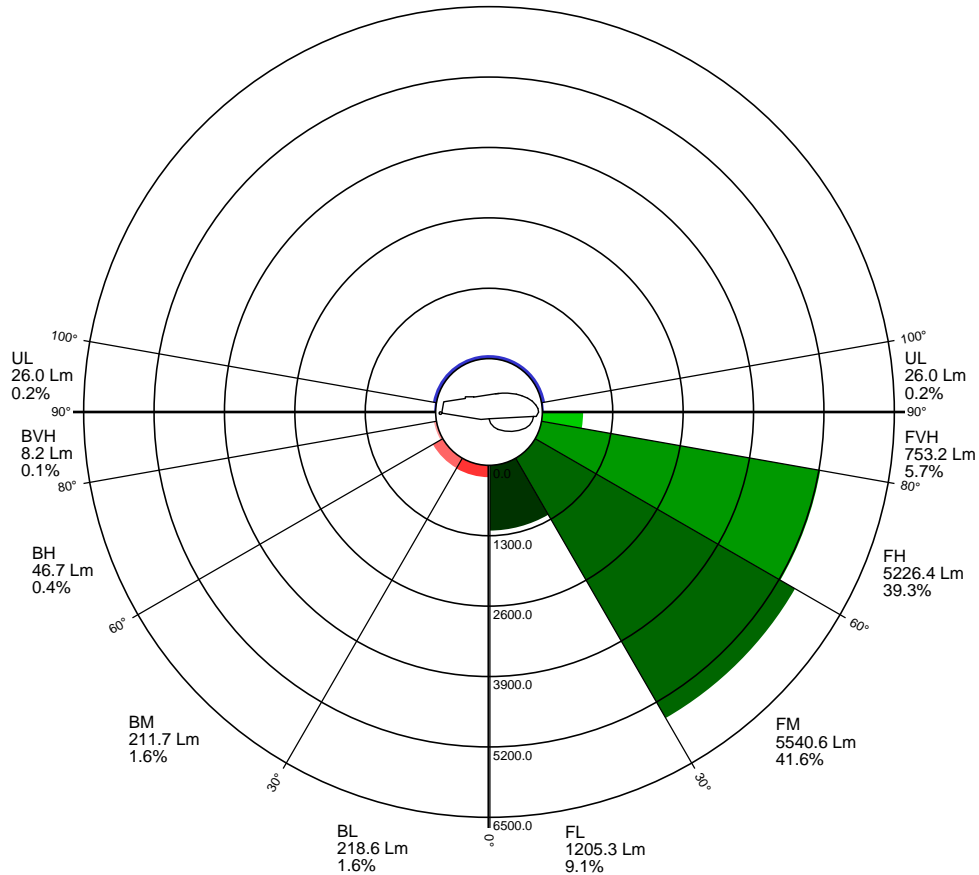
PAGE: 5 OF 9
 DATE SAMPLE TESTED: 05/13/16

BUG Rating:				B1 U3 G5		
Zonal Summary		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		12726	95.7			
FL	(0° - 30°)	1205.3	9.1			
FM	(30° - 60°)	5540.6	41.6			
FH	(60° - 80°)	5226.4	39.3			G3
FVH	(80° - 90°)	753.2	5.7			G5
Backward		485	3.6			
BL	(0° - 30°)	218.6	1.6	B1		
BM	(30° - 60°)	211.7	1.6	B0		
BH	(60° - 80°)	46.7	0.4	B0		G0
BVH	(80° - 90°)	8.2	0.1			G0
Upward		92	0.7			
UL	(90° - 100°)	26.0	0.2		U2	
UH	(100° - 180°)	66.0	0.5		U3	
Trapped Light		0	0.0			
Total Flux		13303	100.0			

Zonal Lumen Summary

(Linear scale)

UH
66.0 Lm
0.5%

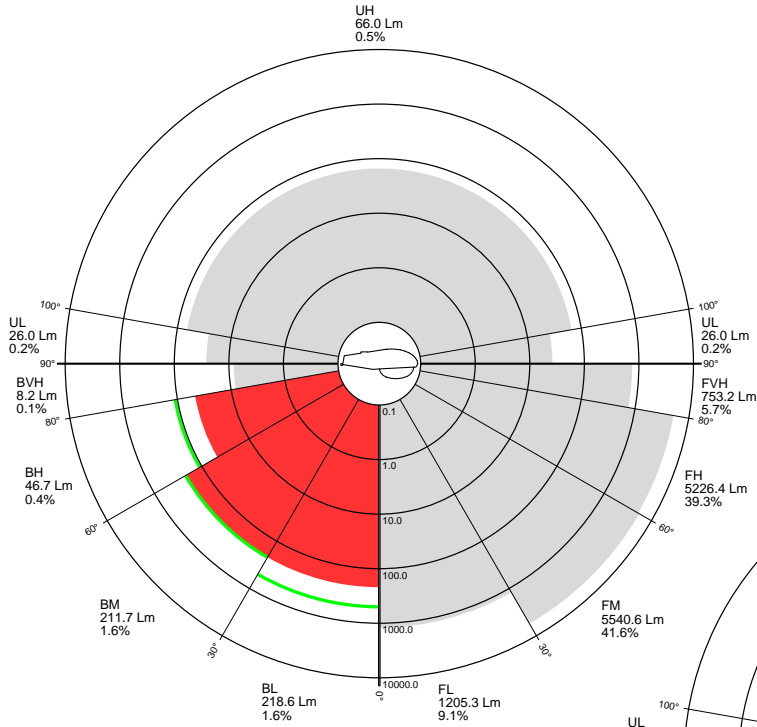


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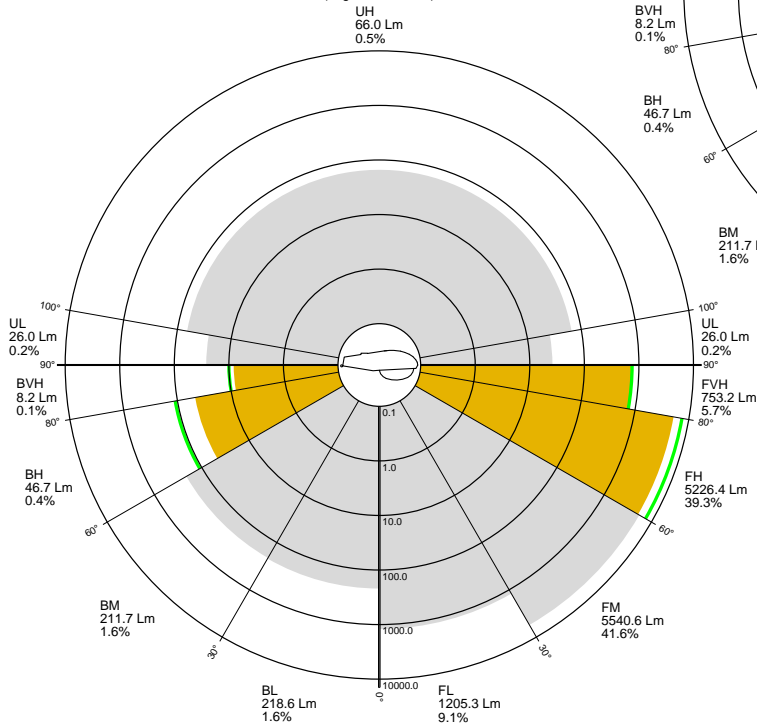
Backlight Rating Details

(Logarithmic scale)



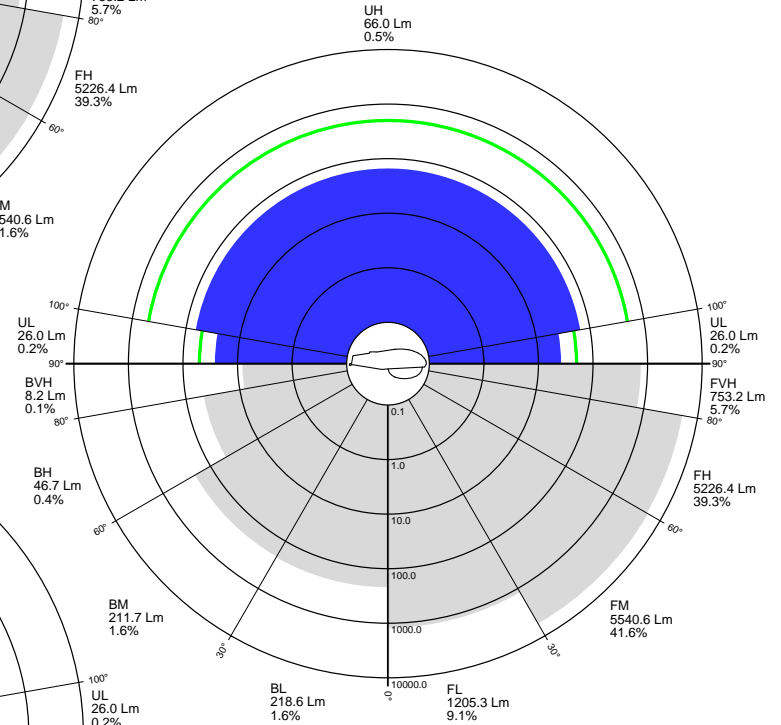
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)



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CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE								
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0 85.0
	180.0	9.	9.	9.	9.	9.	9.	9.	9.	9.
	175.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	165.0	0.	1.	3.	6.	8.	11.	12.	14.	17.
	155.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	145.0	0.	1.	3.	6.	8.	10.	12.	14.	17.
	135.0	0.	1.	3.	5.	8.	10.	12.	14.	16.
	125.0	0.	1.	3.	6.	8.	10.	12.	13.	16.
	115.0	0.	1.	3.	6.	8.	10.	12.	13.	16.
	105.0	0.	1.	3.	6.	8.	10.	12.	14.	16.
	95.0	21.	19.	19.	16.	13.	13.	13.	13.	16.
	90.0	271.	267.	262.	223.	154.	94.	75.	46.	17.
	87.5	493.	485.	503.	454.	442.	359.	419.	363.	24.
	85.0	1351.	1300.	1448.	1385.	1452.	1472.	1521.	1004.	61.
	82.5	3292.	3205.	3497.	3359.	3195.	2930.	2335.	1398.	156.
V	80.0	5557.	5457.	5763.	5620.	4581.	3763.	2913.	1776.	227.
E	77.5	7307.	7249.	7256.	7130.	5396.	4495.	3332.	1889.	265.
R	75.0	8348.	8284.	8265.	8348.	6326.	4986.	3497.	1997.	385.
T	72.5	9400.	9351.	9236.	9220.	7012.	5141.	3535.	2115.	551.
I	70.0	10122.	10064.	9777.	9542.	7375.	5135.	3517.	2244.	708.
C	67.5	10330.	10289.	9914.	9478.	7560.	5121.	3517.	2354.	817.
A	67.0	<10333.	10286.	9909.	9435.	7570.	5135.	3524.	2370.	824.
L	65.0	10219.	10188.	9820.	9178.	7577.	5202.	3581.	2429.	884.
	62.5	9933.	9897.	9546.	8794.	7525.	5375.	3670.	2487.	951.
A	60.0	9568.	9547.	9210.	8456.	7349.	5580.	3818.	2551.	965.
N	57.5	9241.	9228.	8859.	8055.	7113.	5711.	3972.	2634.	925.
G	55.0	8767.	8773.	8398.	7722.	6848.	5734.	4090.	2814.	966.
L	52.5	8438.	8403.	8039.	7444.	6544.	5674.	4185.	3023.	1030.
E	50.0	8147.	8073.	7727.	7140.	6266.	5511.	4289.	3268.	1040.
	47.5	7796.	7723.	7379.	6850.	5994.	5248.	4399.	3543.	1024.
	45.0	7418.	7374.	7034.	6658.	5735.	4980.	4429.	3745.	989.
	42.5	7021.	7002.	6661.	6180.	5483.	4836.	4394.	3803.	959.
	40.0	6585.	6572.	6302.	5854.	5290.	4753.	4350.	3745.	959.
	37.5	6150.	6149.	5969.	5592.	5197.	4692.	4337.	3591.	979.
	35.0	5820.	5829.	5706.	5441.	5071.	4696.	4326.	3398.	991.
	30.0	5397.	5416.	5350.	5175.	4890.	4569.	4014.	2951.	970.
	25.0	5064.	5086.	5035.	4894.	4597.	4057.	3248.	2344.	884.
	20.0	4528.	4556.	4453.	4236.	3851.	3269.	2567.	1871.	832.
	15.0	3435.	3456.	3310.	3129.	2789.	2404.	1976.	1500.	913.
	10.0	2222.	2237.	2151.	2054.	1857.	1617.	1362.	1157.	894.
	5.0	1216.	1228.	1195.	1172.	1116.	1064.	998.	960.	862.
	0.0	842.	842.	842.	842.	842.	842.	842.	842.	842.
		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	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
	175.0	17.	17.	16.	15.	13.	12.	10.	7.	5.	4. 4.
	165.0	17.	18.	17.	16.	15.	13.	11.	9.	7.	7. 7.
	155.0	18.	18.	17.	16.	15.	14.	12.	11.	10.	10. 10.
	145.0	17.	17.	17.	16.	15.	14.	13.	12.	12.	12. 12.
	135.0	16.	16.	16.	16.	15.	14.	13.	13.	14.	14. 14.
	125.0	16.	16.	16.	15.	15.	14.	15.	16.	16.	17. 16.
	115.0	16.	16.	16.	16.	16.	16.	17.	18.	19.	20. 20.
	105.0	17.	17.	17.	17.	17.	17.	19.	20.	21.	21. 21.
	95.0	17.	17.	17.	17.	17.	17.	19.	20.	20.	20. 20.
	90.0	16.	17.	17.	17.	16.	16.	16.	16.	17.	17. 17.
	87.5	16.	16.	16.	16.	16.	15.	15.	14.	14.	14. 14.
	85.0	19.	17.	16.	16.	15.	15.	13.	12.	12.	11. 12.
	82.5	42.	21.	16.	15.	14.	14.	12.	10.	9.	9. 9.
V	80.0	74.	32.	18.	16.	14.	13.	11.	9.	7.	7. 7.
E	77.5	93.	52.	32.	16.	14.	12.	10.	8.	6.	4. 4.
R	75.0	118.	80.	51.	18.	14.	13.	10.	7.	5.	3. 3.
T	72.5	281.	185.	60.	28.	14.	13.	11.	8.	5.	2. 2.
I	70.0	337.	224.	67.	42.	15.	12.	11.	8.	6.	5. 4.
C	67.5	396.	264.	62.	50.	18.	13.	10.	8.	6.	6. 6.
A	67.0<<	413.	282.	63.	51.	19.	13.	10.	8.	6.	6. 6.
L	65.0	466.	345.	84.	56.	24.	14.	11.	8.	6.	6. 6.
	62.5	514.	360.	146.	58.	32.	17.	12.	9.	6.	6. 6.
A	60.0	513.	372.	204.	51.	43.	23.	15.	11.	8.	8. 8.
N	57.5	511.	381.	247.	42.	47.	29.	24.	16.	13.	13. 13.
G	55.0	559.	430.	287.	43.	48.	40.	30.	24.	21.	20. 19.
L	52.5	648.	508.	363.	75.	46.	47.	40.	29.	30.	30. 29.
E	50.0	686.	548.	425.	155.	40.	51.	50.	36.	36.	37. 36.
	47.5	695.	561.	456.	270.	37.	50.	55.	46.	47.	46. 45.
	45.0	693.	572.	486.	364.	51.	42.	55.	49.	55.	56. 55.
	42.5	700.	601.	516.	417.	123.	35.	51.	51.	58.	60. 59.
	40.0	722.	636.	541.	443.	220.	40.	41.	49.	58.	60. 60.
	37.5	760.	672.	557.	456.	302.	78.	36.	40.	52.	55. 56.
	35.0	788.	695.	566.	459.	355.	163.	46.	35.	43.	46. 46.
	30.0	796.	700.	565.	465.	384.	322.	213.	124.	68.	53. 51.
	25.0	741.	660.	550.	471.	417.	403.	420.	392.	325.	289. 281.
	20.0	716.	654.	583.	534.	517.	516.	505.	487.	475.	469. 467.
	15.0	819.	764.	706.	661.	618.	590.	569.	554.	538.	528. 523.
	10.0	835.	797.	749.	712.	685.	662.	639.	625.	609.	604. 602.
	5.0	827.	809.	777.	757.	745.	732.	719.	715.	708.	708. 705.
	0.0	842.	842.	842.	842.	842.	842.	842.	842.	842.	842. 842.

CONE OF MAXIMUM CANDELA

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	21
5- 10	73
10- 15	154
15- 20	266
20- 25	393
25- 30	518
30- 35	638
35- 40	760
40- 45	897
45- 50	1035
50- 55	1155
55- 60	1268
60- 65	1367
65- 70	1425
70- 75	1367
75- 80	1114
80- 85	622
85- 90	139
90- 95	18
95-100	8
100-105	8
105-110	7
110-115	7
115-120	6
120-125	6
125-130	5
130-135	5
135-140	4
140-145	4
145-150	4
150-155	3
155-160	2
160-165	2
165-170	1
170-175	1
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	94
0- 20	513
0- 30	1424
0- 40	2822
0- 50	4754
0- 60	7176
0- 70	9968
0- 80	12449
0- 90	13211
0-100	13237
0-110	13252
0-120	13265
0-130	13276
0-140	13285
0-150	13293
0-160	13299
0-170	13302
0-180	13303