

Project Number
15.00941



HUBBELL
Lighting

Date
6/8/2015

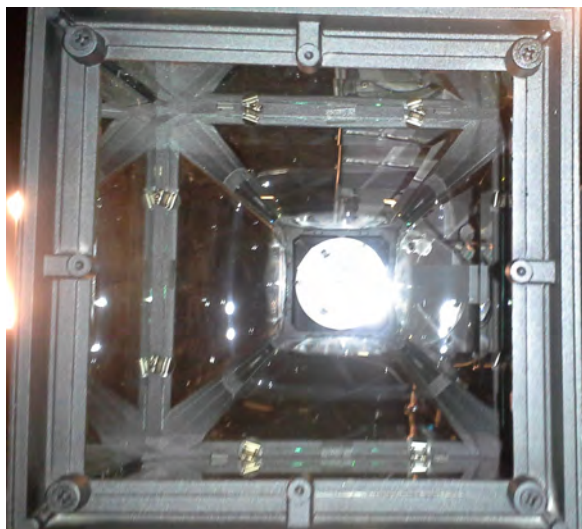
LAB 1

Test Sample Description

Catalog Number: P6058-3130K9
Description: ENDORSE 1-Lt. Lrg Wall Lantern w/AC 9W LEDModule

Test Method: IES LM-79-08 § 10
Preburn Time: 00:15
Time To Stabilize: 3:41
Total Operating Time: 4:06

Input Voltage (Volts): 120.1
Input Current (Amps): 0.070
Input Wattage (Watts): 7.8
Ambient Temp (°C): 25.0



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Checked: D. ROBBINS
Approved: M. WASHBURN





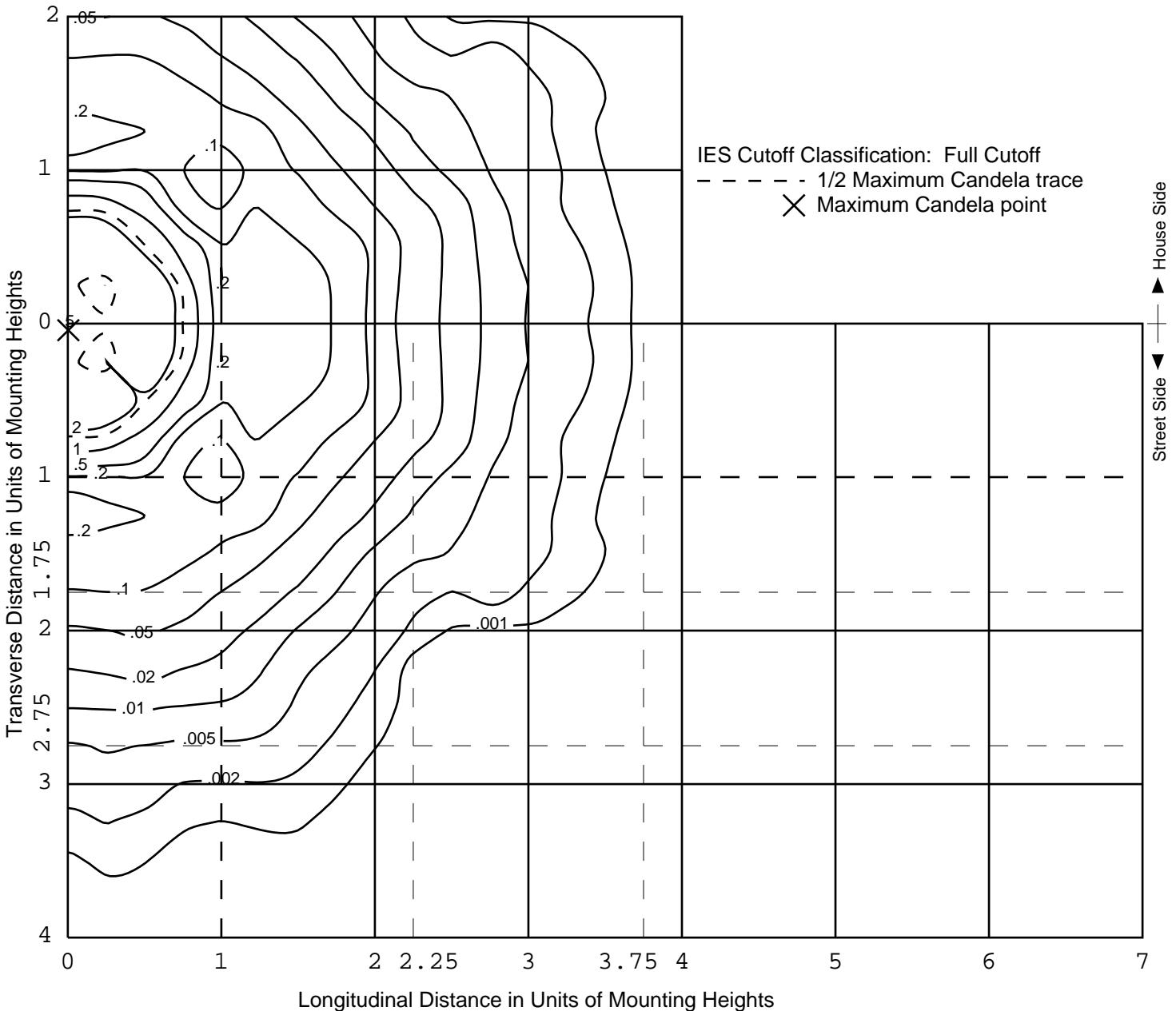
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 6.6 foot mounting height.

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CATALOG NUMBER: P6058-3130K9
LUMINAIRE: ENDORSE 1-Lt. Lrg Wall
Lantern w/AC 9W LEDModule
LAMP CAT. NO.: 93049180-3130
LAMP: 20- NICHIA 3000K
REFRACTOR: Beveled clear glass panels
Part # 93054046/top -93054047/bottom
MOUNTING: WALL
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.





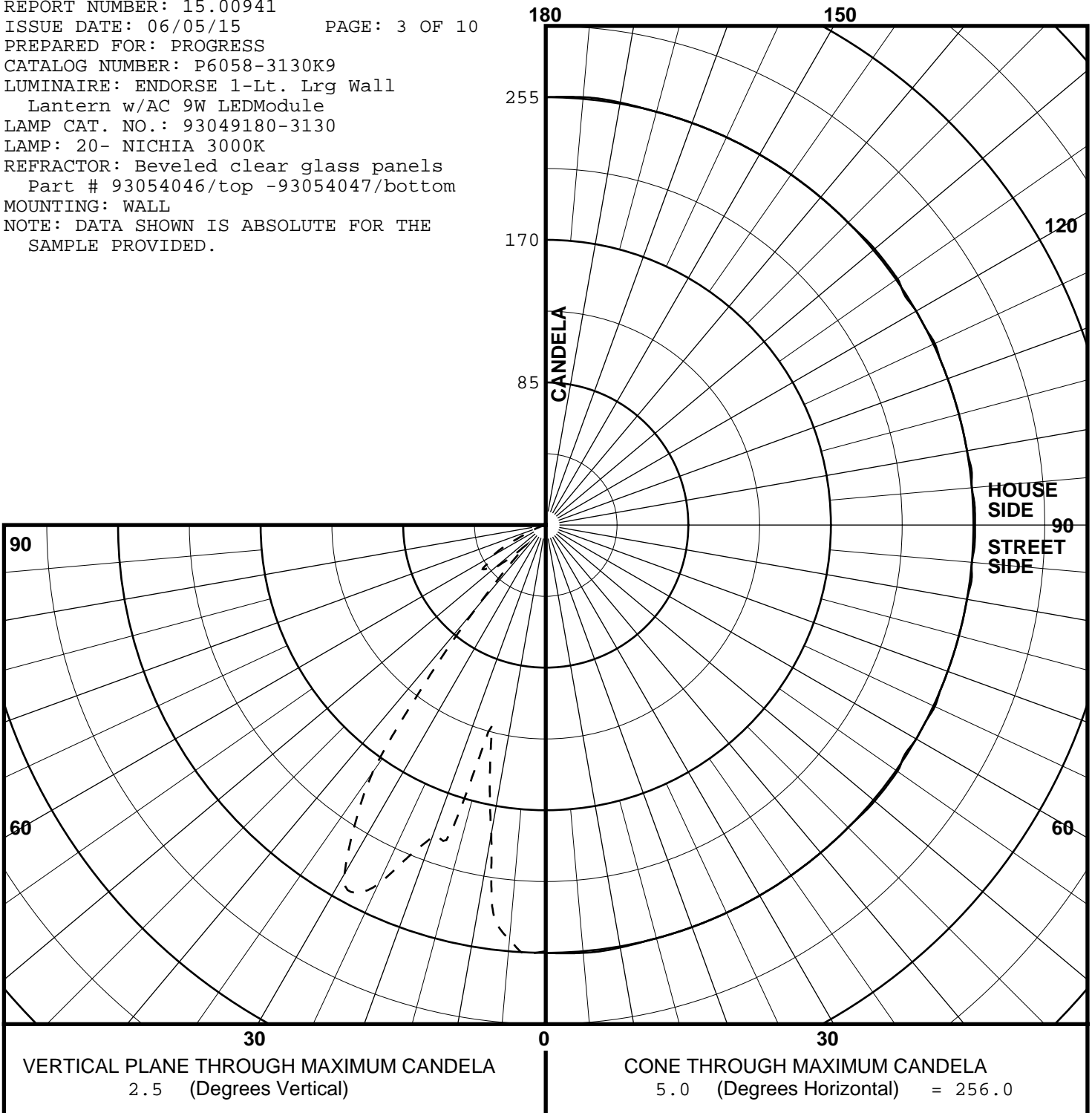
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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 CATALOG NUMBER: P6058-3130K9
 LUMINAIRE: ENDORSE 1-Lt. Lrg Wall
 Lantern w/AC 9W LEDModule
 LAMP CAT. NO.: 93049180-3130
 LAMP: 20- NICHIA 3000K
 REFRACTOR: Beveled clear glass panels
 Part # 93054046/top -93054047/bottom
 MOUNTING: WALL
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED.





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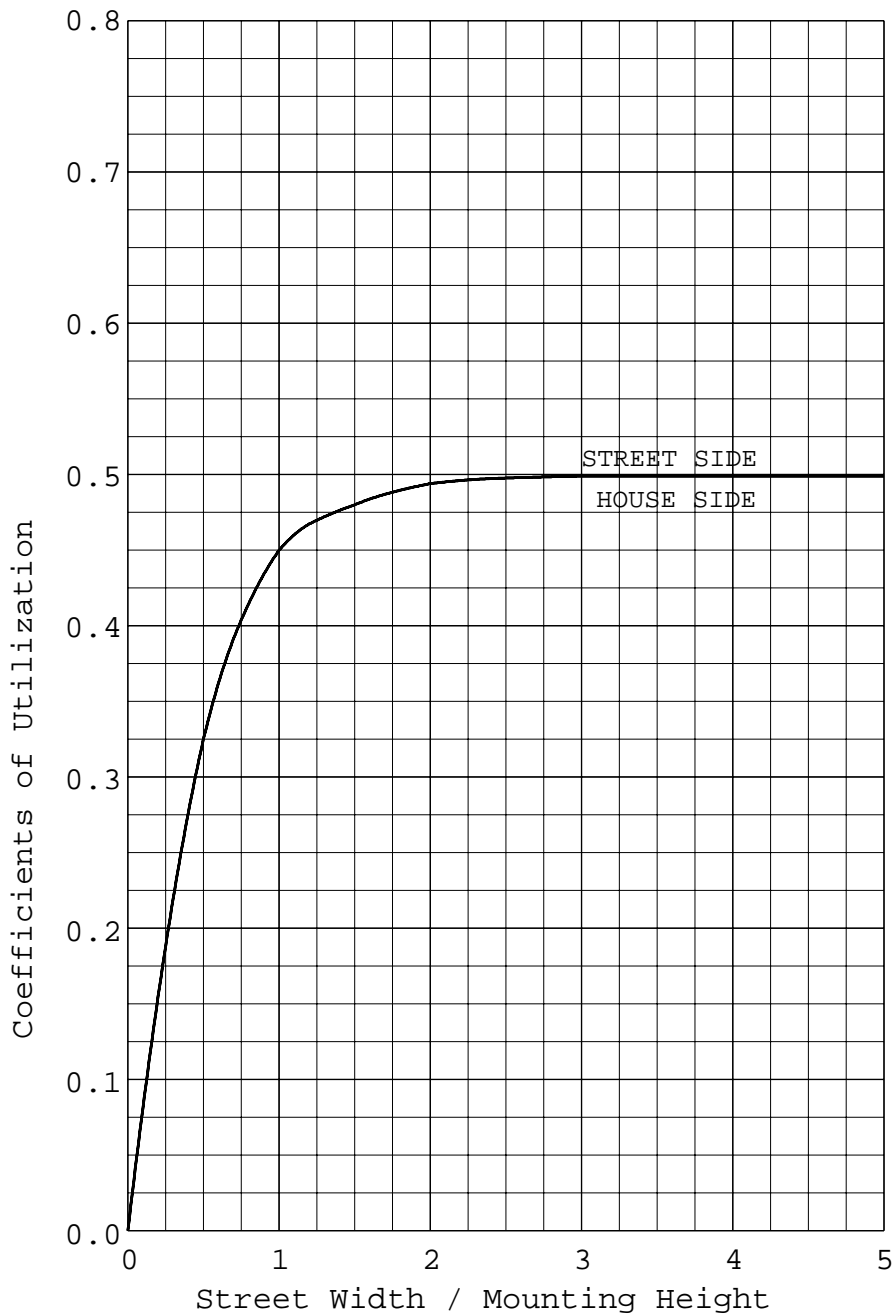
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	179.	50.0
DOWNWARD HOUSE SIDE	179.	50.0
DOWNWARD TOTAL	359.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	359.	100.0
TOTAL INPUT WATTS = 7.8		
EFFICACY = 46.0 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.

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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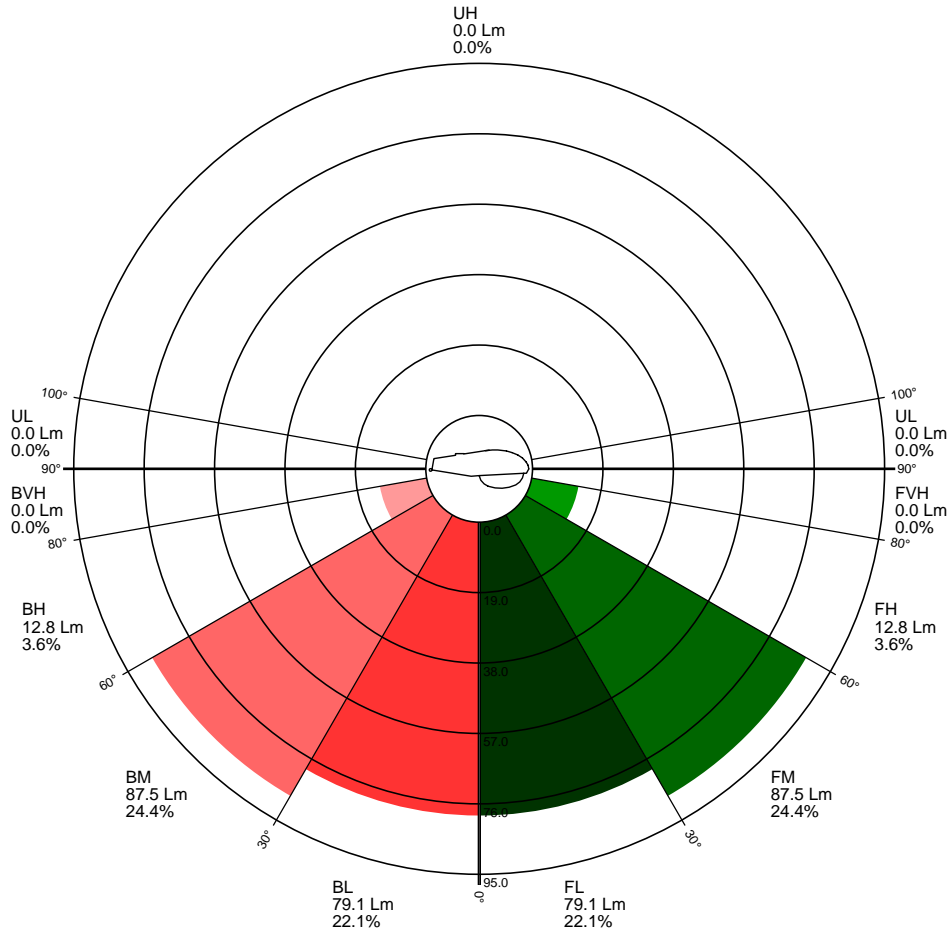
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BUG Rating:	Zonal Summary	Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		179	50.0			
FL (0° - 30°)		79.1	22.1			
FM (30° - 60°)		87.5	24.4			
FH (60° - 80°)		12.8	3.6			G0
FVH (80° - 90°)		0.0	0.0			G0
Backward		179	50.0			
BL (0° - 30°)		79.1	22.1	B0		
BM (30° - 60°)		87.5	24.4	B0		
BH (60° - 80°)		12.8	3.6	B0		G0
BVH (80° - 90°)		0.0	0.0			G0
Upward		0	0.0			
UL (90° - 100°)		0.0	0.0		U0	
UH (100° - 180°)		0.0	0.0		U0	
Trapped Light		0	0.0			
Total Flux		359	100.0			

Zonal Lumen Summary

(Linear scale)





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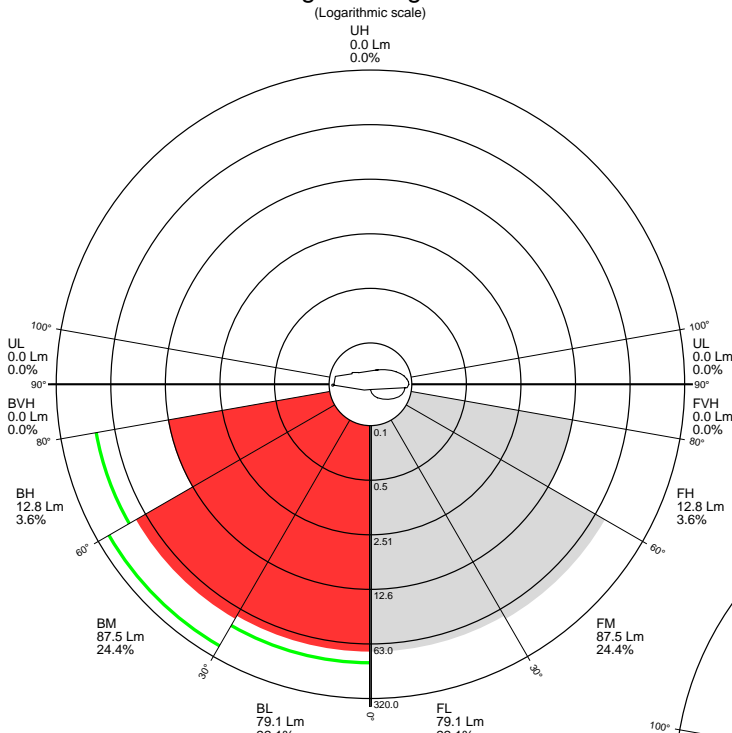
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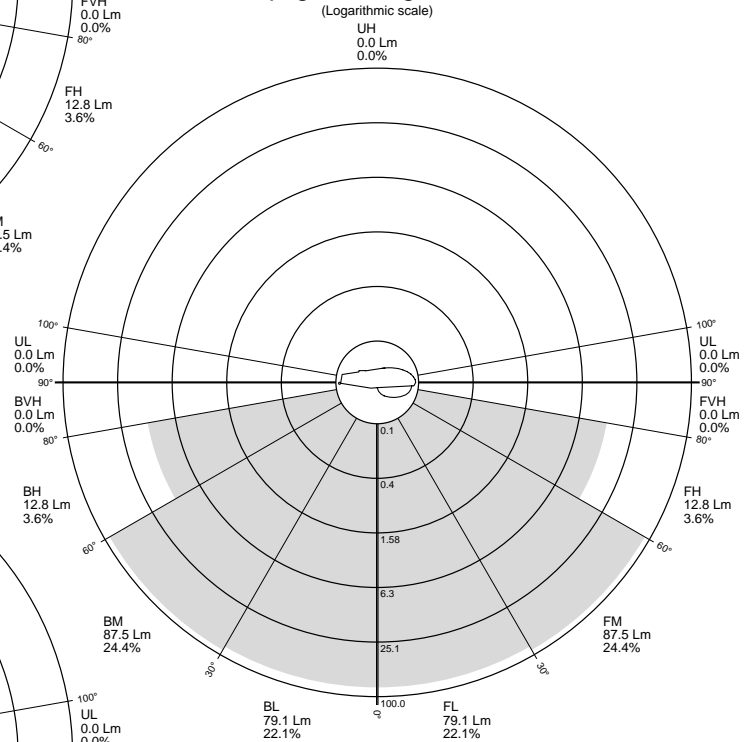
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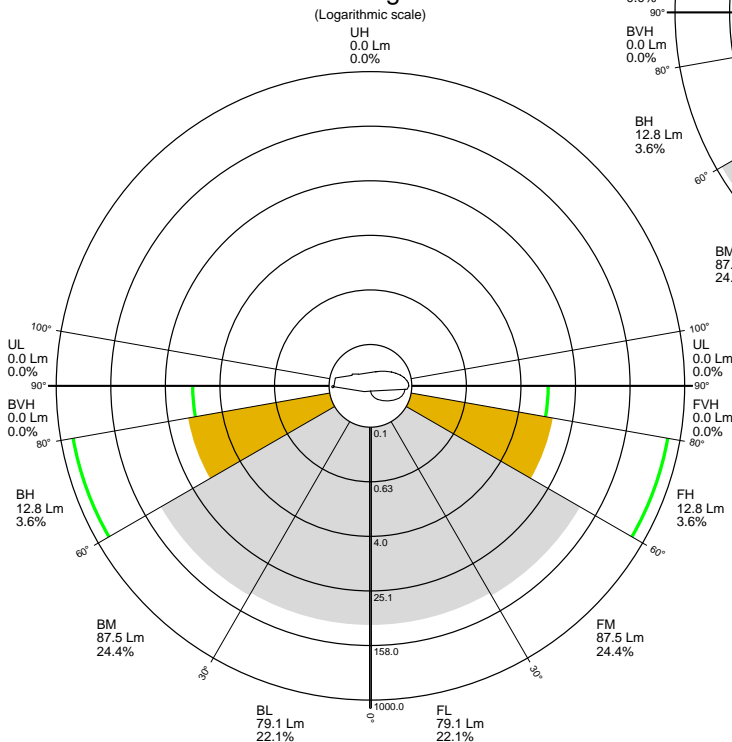
Backlight Rating Details



Uplight Rating Details



Glare Rating Details





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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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	82.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
	80.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	77.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
	75.0	1.	2.	1.	2.	1.	1.	3.	2.	2.
	72.5	3.	4.	2.	4.	3.	2.	5.	4.	6.
	70.0	5.	6.	6.	10.	5.	5.	8.	9.	9.
V	67.5	10.	10.	13.	13.	9.	9.	11.	21.	16.
E	65.0	15.	16.	28.	20.	17.	17.	18.	23.	38.
R	62.5	25.	28.	34.	31.	27.	30.	25.	34.	58.
T	60.0	35.	36.	42.	35.	39.	46.	39.	39.	67.
I	57.5	37.	38.	41.	43.	38.	32.	43.	50.	69.
C	55.0	42.	46.	47.	43.	29.	13.	31.	55.	83.
A	52.5	47.	42.	42.	38.	25.	4.	29.	50.	80.
L	50.0	41.	40.	36.	38.	17.	5.	17.	45.	57.
	47.5	30.	29.	26.	26.	18.	7.	16.	30.	37.
A	45.0	21.	18.	18.	36.	42.	29.	40.	32.	18.
N	42.5	26.	30.	24.	66.	78.	66.	67.	64.	24.
G	40.0	59.	64.	64.	106.	118.	95.	123.	97.	69.
L	37.5	103.	116.	124.	157.	150.	118.	141.	158.	124.
E	35.0	172.	180.	176.	195.	166.	132.	174.	185.	177.
	30.0	239.	240.	244.	230.	177.	120.	182.	225.	244.
	25.0	234.	236.	246.	212.	146.	113.	144.	217.	238.
	20.0	202.	198.	206.	193.	130.	101.	123.	184.	211.
	15.0	126.	124.	125.	140.	147.	117.	140.	132.	134.
	10.0	187.	187.	196.	224.	223.	217.	223.	217.	200.
	5.0	247.	248.	249.	252.	253.	255.	253.	251.	248.
	2.5<<	255.	256.	255.	255.	255.	255.	256.	256.	255.
	0.0	254.	254.	254.	254.	254.	254.	254.	254.	254.

||
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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	82.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	80.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	77.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	75.0	2.	2.	2.	3.	1.	1.	1.	2.	1.	2.
	72.5	5.	6.	4.	5.	2.	1.	3.	4.	2.	4.
	70.0	9.	9.	9.	8.	5.	5.	5.	10.	6.	6.
V	67.5	15.	16.	21.	11.	9.	9.	9.	13.	13.	10.
E	65.0	22.	24.	38.	23.	18.	17.	17.	20.	28.	16.
R	62.5	45.	47.	58.	34.	25.	30.	27.	31.	34.	28.
T	60.0	67.	65.	67.	39.	39.	46.	39.	35.	42.	36.
I	57.5	69.	69.	69.	50.	43.	32.	38.	43.	41.	38.
C	55.0	89.	92.	83.	55.	31.	13.	29.	43.	47.	46.
A	52.5	96.	99.	80.	50.	29.	4.	25.	38.	42.	42.
L	50.0	69.	70.	57.	45.	17.	5.	17.	38.	36.	40.
	47.5	45.	44.	37.	30.	16.	7.	18.	26.	26.	29.
A	45.0	29.	26.	18.	32.	40.	29.	42.	36.	18.	18.
N	42.5	27.	29.	24.	64.	67.	66.	78.	66.	24.	30.
G	40.0	58.	63.	69.	97.	123.	95.	118.	106.	64.	64.
L	37.5	109.	106.	124.	158.	141.	118.	150.	157.	124.	116.
E	35.0	181.	181.	177.	185.	174.	132.	166.	195.	176.	180.
	30.0	241.	242.	244.	225.	182.	120.	177.	230.	244.	240.
	25.0	236.	236.	238.	217.	144.	113.	146.	212.	246.	236.
	20.0	204.	199.	211.	184.	123.	101.	130.	193.	206.	198.
	15.0	130.	133.	134.	132.	140.	117.	147.	140.	125.	124.
	10.0	189.	196.	200.	217.	223.	217.	223.	224.	196.	187.
	5.0	247.	247.	248.	251.	253.	253.	253.	252.	249.	248.
	2.5<<	256.	255.	255.	256.	256.	255.	255.	255.	255.	256.
	0.0	254.	254.	254.	254.	254.	254.	254.	254.	254.	254.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	6
5- 10	16
10- 15	19
15- 20	25
20- 25	39
25- 30	52
30- 35	58
35- 40	44
40- 45	20
45- 50	12
50- 55	19
55- 60	22
60- 65	17
65- 70	7
70- 75	2
75- 80	0
80- 85	0
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	23
0- 20	67
0- 30	158
0- 40	260
0- 50	292
0- 60	333
0- 70	357
0- 80	359
0- 90	359

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Date
6/8/2015

Goniophotometer Calibration

Calibration Lamp: GE 1000W, 120V, T6, CL (FEL)

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25753.0 Lumens

Calibration Date: 12/02/2014

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	11/11/2015

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