

Project Number
17.01491



Date
8/11/2017

Lab 1
Sphere

Test Sample Description

Catalog Number: P560068-020-30
Description: Small, 1-Lt. Led Wall Lantern

Photometry

Test Method: IES LM-79-08 § 10
Preburn Time: 00:05
Time To Stabilize: 0:70
Total Operating Time: 2:20

Input Voltage (Volts): 120.1
Input Current (Amps): 0.080
Input Wattage (Watts): 9.5
Ambient Temp (°C): 25.4

Sphere

Test Method: IES LM-79-08 § 9.1 & 12.1
Preburn Time: 1:00
Time To Stabilize: 1:25
Total Operating Time: 2:25

Input Voltage (Volts): 120.0
Input Current (Amps): 0.079
Input Wattage (Watts): 9.4
Ambient Temp (°C): 24.3



Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked (sphere): B. LEE
Checked (photometry): D. ROBBINS
Approved: P. McCARTHY



This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



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LUMINAIRE: Small, 1-Lt. Led Wall Lantern

LAMP CAT. NO.: 93070270-3330

LAMP: 20- NICHIA 3000K LEDs

MOUNTING: Wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



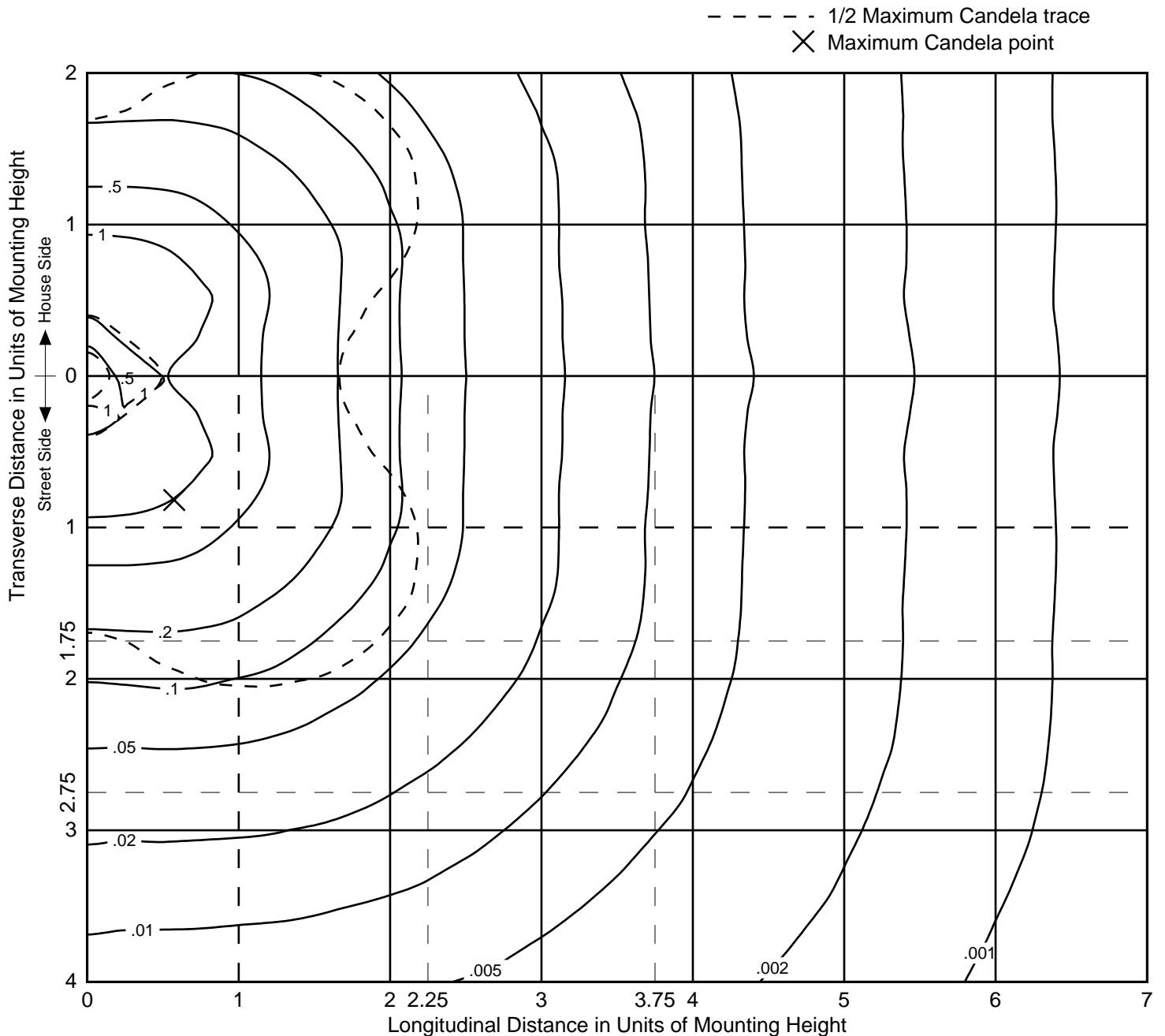
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 6-foot mounting height





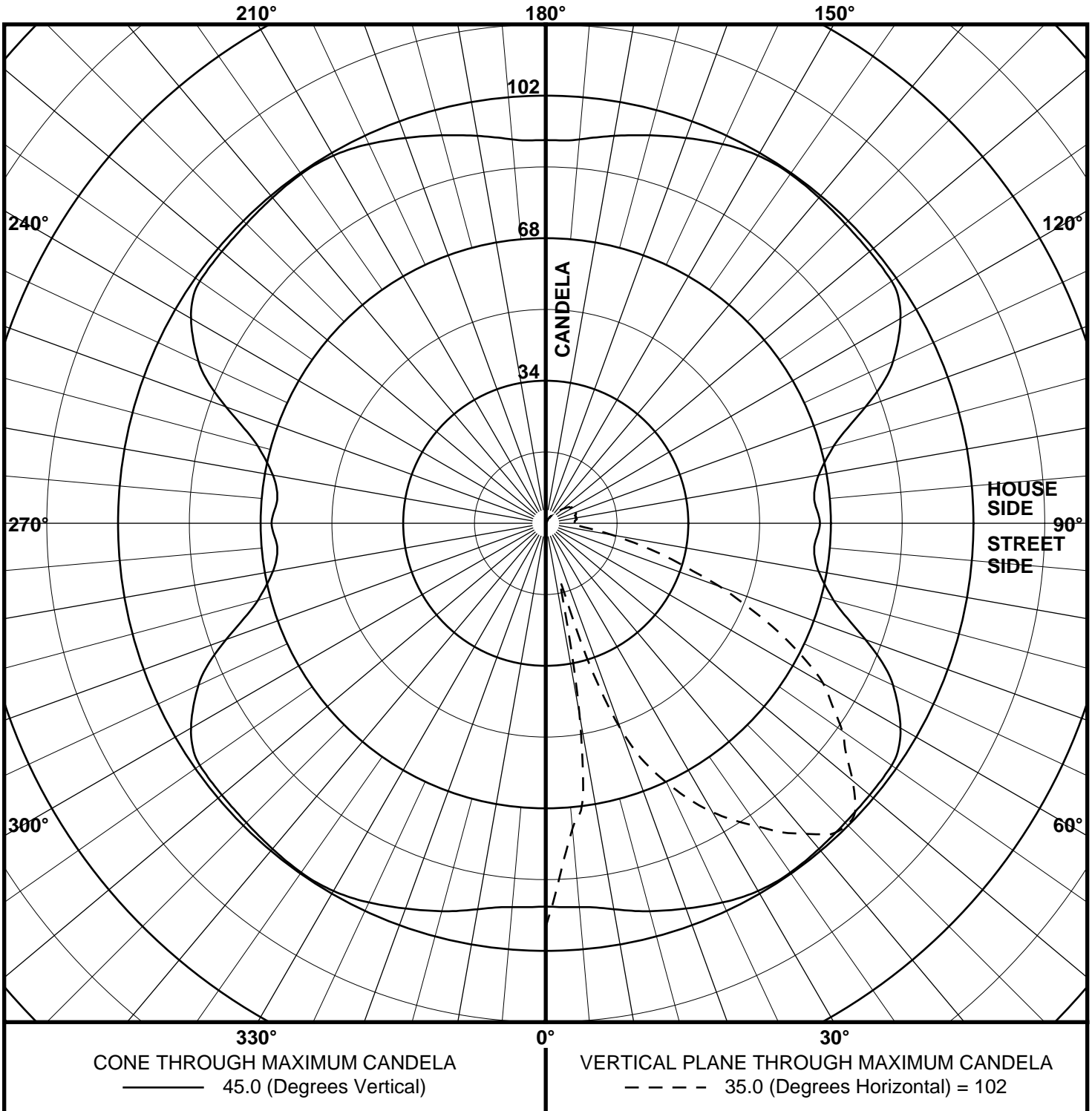
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





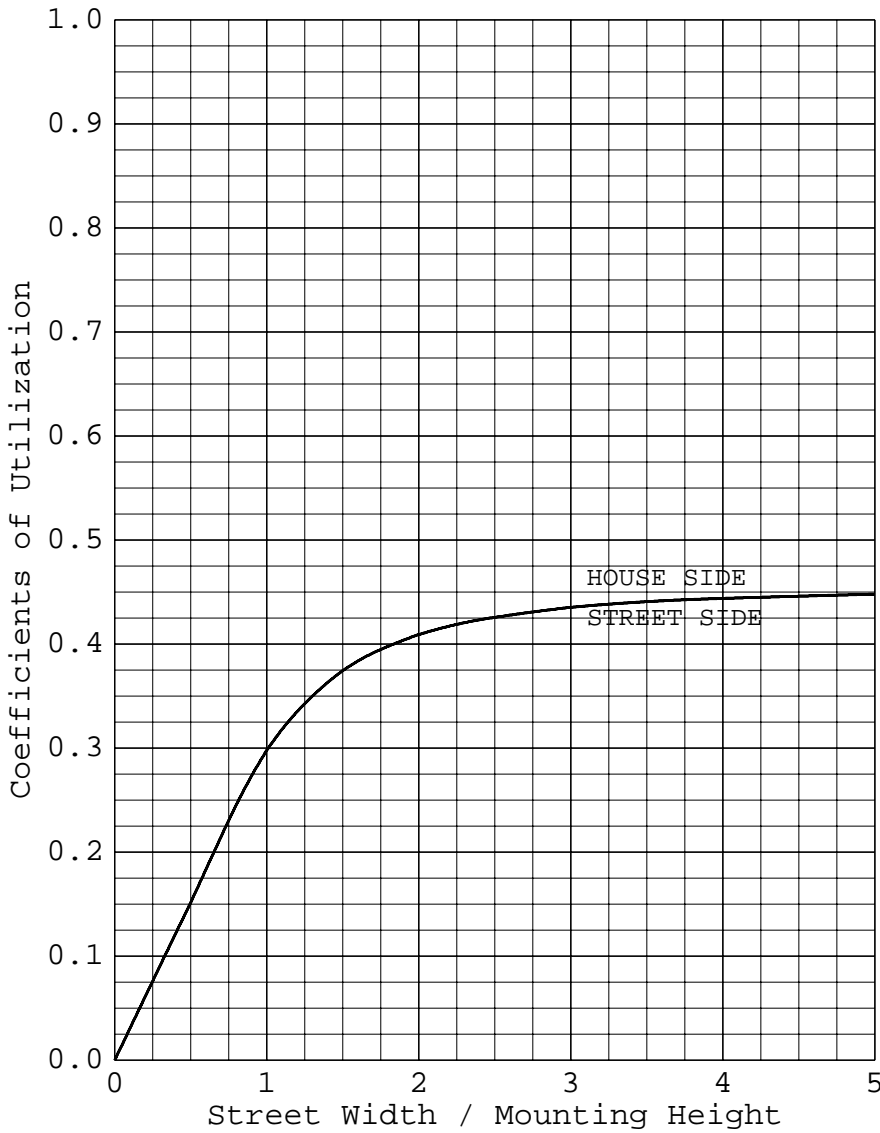
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	159	45.7
DOWNWARD HOUSE SIDE	159	45.7
DOWNWARD TOTAL	318	91.5
UPWARD STREET SIDE	15	4.3
UPWARD HOUSE SIDE	15	4.3
UPWARD TOTAL	30	8.5
TOTAL FLUX	348	100.0
EFFICACY = 36.7 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 Zonal Summary	Lumens	% of Fixture	Zone Ratings		
			B0	U2	G0
			B	U	G
Forward	159	45.7			
FL (0° – 30°)	22.2	6.4			
FM (30° – 60°)	93.0	26.8			
FH (60° – 80°)	39.2	11.3			G0
FVH (80° – 90°)	4.6	1.3			G0
Backward	159	45.7			
BL (0° – 30°)	22.2	6.4	B0		
BM (30° – 60°)	93.0	26.8	B0		
BH (60° – 80°)	39.2	11.3	B0		G0
BVH (80° – 90°)	4.6	1.3			G0
Upward	30	8.5			
UL (90° – 100°)	6.8	1.9		U1	
UH (100° – 180°)	22.9	6.6		U2	
Trapped Light	0	0.0			
Total Flux	348	100.0			



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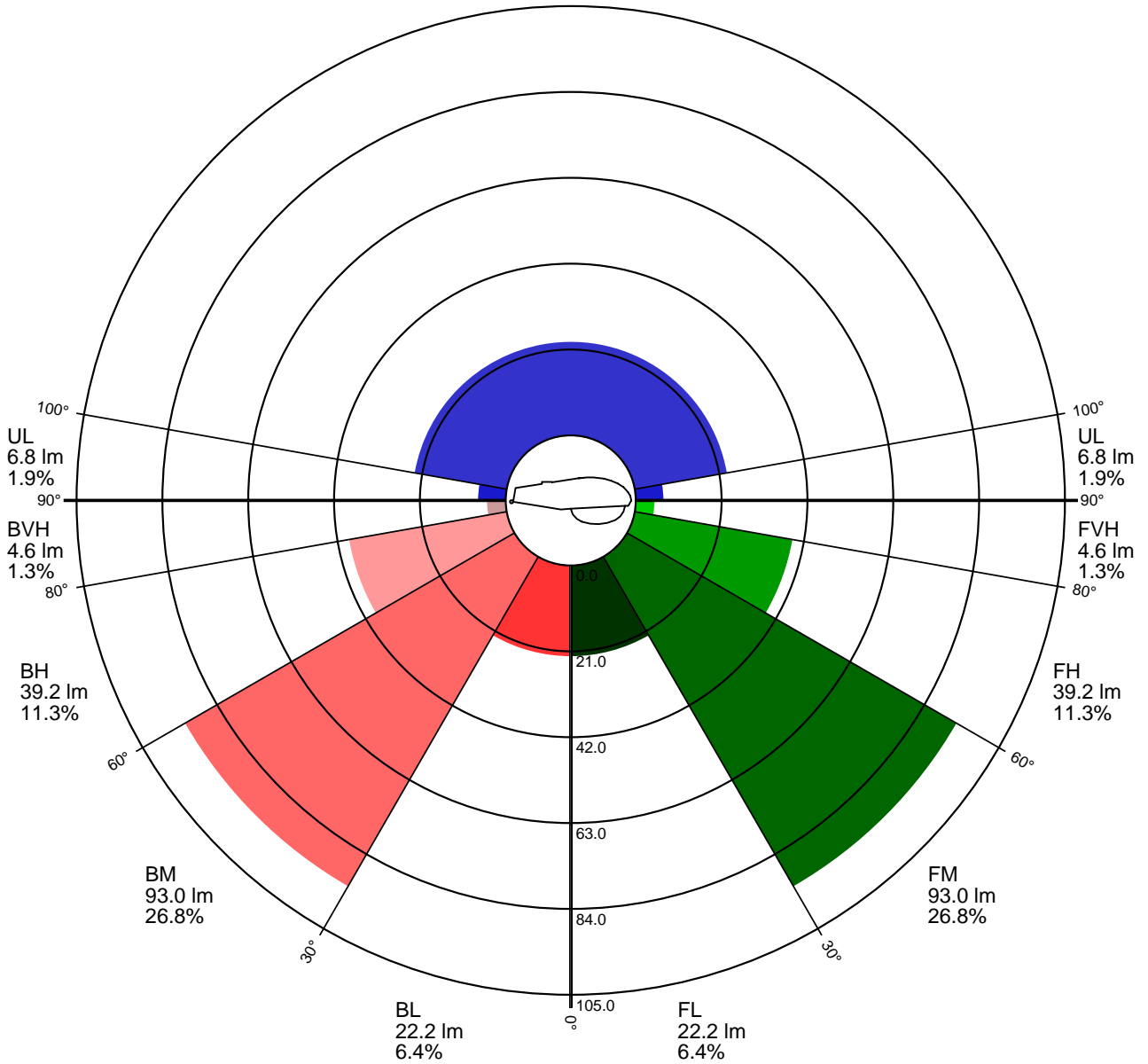
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Zonal Lumen Summary

(Linear scale)

UH
22.9 lm
6.6%





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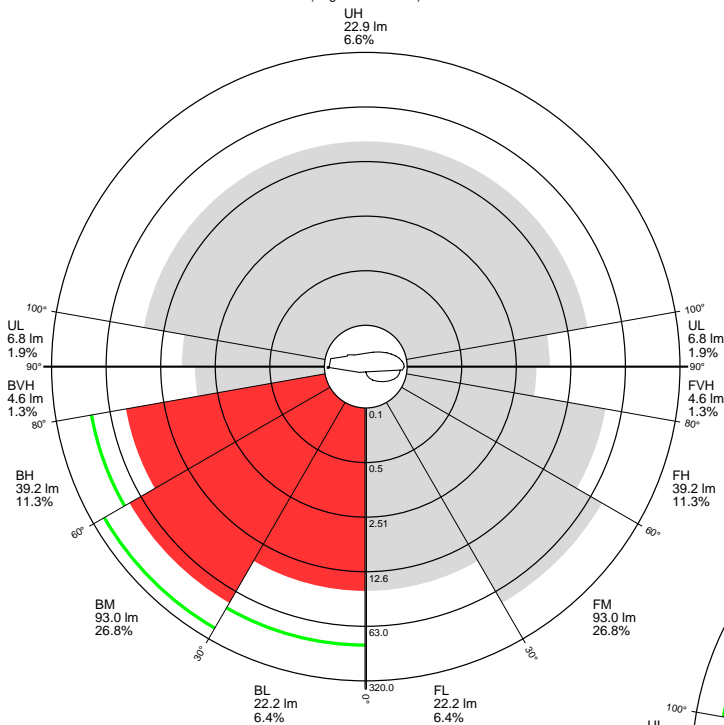
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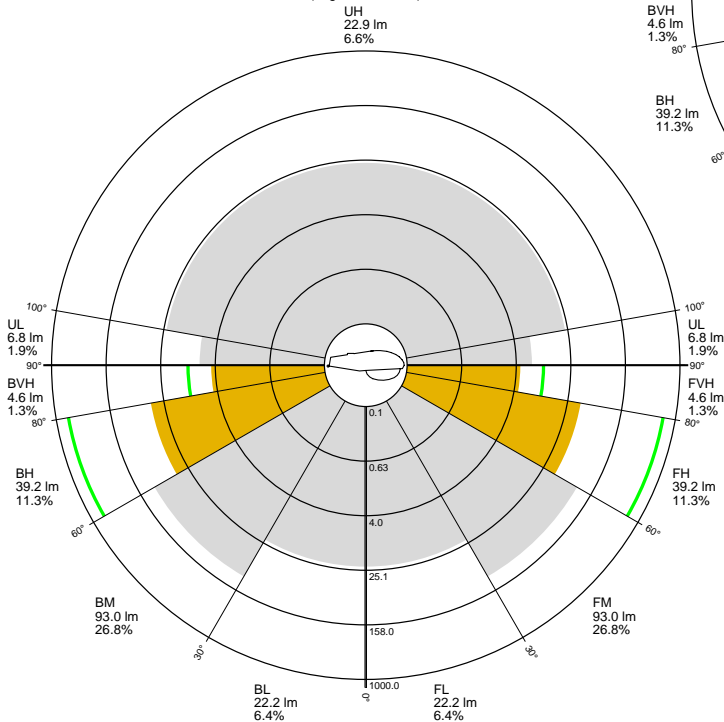
Backlight Rating Details

(Logarithmic scale)



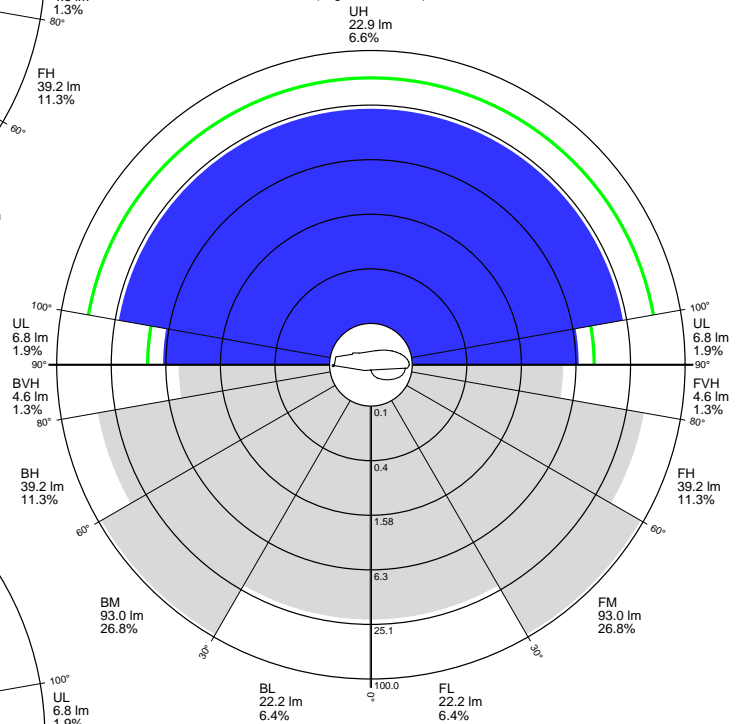
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		2
5- 10		4
10- 15		3
15- 20		6
20- 25		12
25- 30		17
30- 35		23
35- 40		28
40- 45		33
45- 50		36
50- 55		34
55- 60		32
60- 65		29
65- 70		23
70- 75		16
75- 80		10
80- 85		6
85- 90		3
90- 95		3
95-100		3
100-105		3
105-110		3
110-115		3
115-120		3
120-125		3
125-130		2
130-135		2
135-140		1
140-145		1
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		6
10- 20		9
20- 30		29
30- 40		51
40- 50		69
50- 60		66
60- 70		52
70- 80		27
80- 90		9
90-100		7
100-110		7
110-120		7
120-130		5
130-140		3
140-150		1
150-160		0
160-170		0
170-180		0

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Goniophotometer Calibration

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

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 07/10/2017

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: 31.74'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4EB	11/7/2017

Sphere Calibration

Calibration Lamp: EIKO 28V75W/E10

Lamp Number: SCL-1400-J136

Calibration Current: 2.679 Amps

Total Luminous Flux: 1427 Lumens

Test Equipment Used - Color & SPD; THD & Power Factor

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>3-Meter Sphere</i>	Labsphere / LMS-3M	N/A	Calibrated Weekly
<i>Thermometer</i>	National Instruments / USB TC01	1912751	11/2/2017
<i>LAMP Power Meter</i>	Yokogawa / WT332	C2QA27075V	11/1/2017
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Aux Lamp Supply</i>	Labsphere / LPS-100-0833	031159372	10/31/2017
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	12/1/2017
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	N/A

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