

Project Number
P21.01661



HUBBELL
Lighting

Date
10/29/2021

Photometric Test Report

Lab 1
Sphere

Test Sample Description

Catalog Number: P560299-31M JAM-PE-17
Description: Wall Sconce with G-Tech 8W Light Engine (-31M)

Photometry

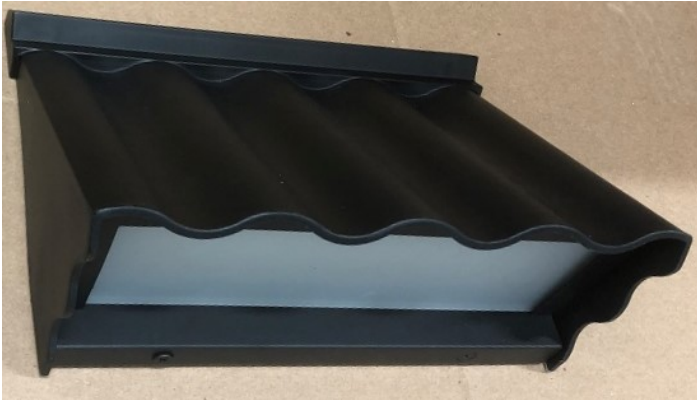
Test Method: IES LM-31-95
IES LM-79-08 §10
Preburn Time: 0:25
Time To Stabilize: 0:52
Total Operating Time: 3:30

Voltage (Volts): 120.1
Current (Amps): 0.069
Power (Watts): 8.2
Ambient Temp (°C): 24.9
PF @ 120V (%): 0.991
THD @ 120V (%): 13.4
PF @ 277V
THD @ 277V

Sphere

Test Method: IES LM-16-93
IES LM-79-08 §12.1
Preburn Time: 0:30
Time To Stabilize: 1:00
Total Operating Time: 1:30

Voltage (Volts): 120.0
Current (Amps): 0.069
Power (Watts): 8.2
Ambient Temp (°C): 24.5



Hubbell Lighting, Inc.

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

Checked (sphere): Ben Lee
Checked (photometry): Connie Steadman
Approved: Philip McCarthy



** This customer-provided information was not verified by the laboratory and could affect the validity of the test results.*

Note that the LED manufacturer and part number are unverifiable by the lab.

This report shall not be reproduced, except in full, without the written approval of HLI's NVLAP-accredited laboratory

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



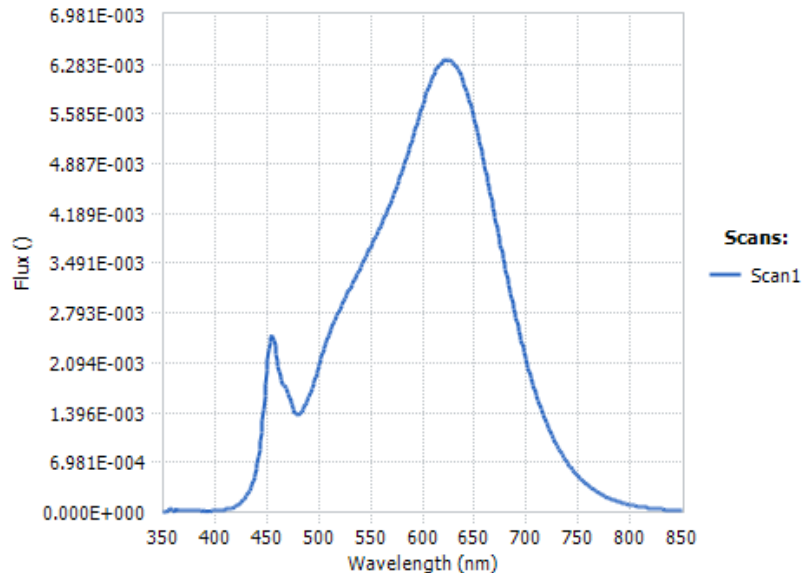
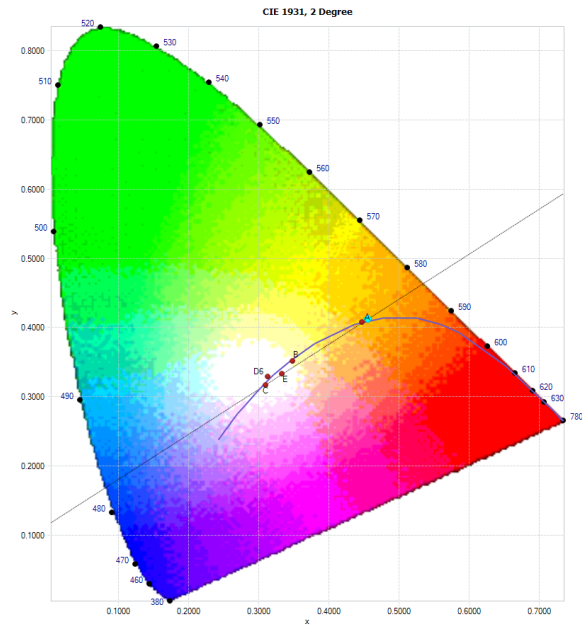
Lamp Cat#: GT00016520-120V08W30

Lamp Desc: 42 - G-Tech 2700K LEDs

Efficacy: 36.4LPW

S/P Ratio: 1.3lm`/Lm

Spectral Results		
Name	Value	Unit
Radiant Flux	1.05	Watts
Lflux	298	Lumens
Scotopic Lumens	395	
Chrom x	0.4553	
Chrom y	0.4125	
Chrom u	0.2587	
Chrom v	0.3516	
Duv	0.0010	
Chrom u'	0.2587	
Chrom v'	0.5274	
CCT	2778	°K
Purity	60.5	%
Dominant Wavelength	583.5	nm
FWHM	151.8	
Peak Wavelength	622.9	nm
Lamda (Center)	607.4	nm
Centroid Wavelength	600.2	nm
SDCM		
RA	93	
Corr. Coef.	0.001134300	
Correlation	0.0054	
R1	93.4	
R2	97.2	
R3	99.4	
R4	92.6	
R5	92.9	
R6	97.0	
R7	91.8	
R8	81.9	
R9	60.8	
R10	92.5	
R11	93.8	
R12	82.0	
R13	94.5	
R14	99.1	



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Data shown is representative of the product sample tested. Actual field performance may vary.

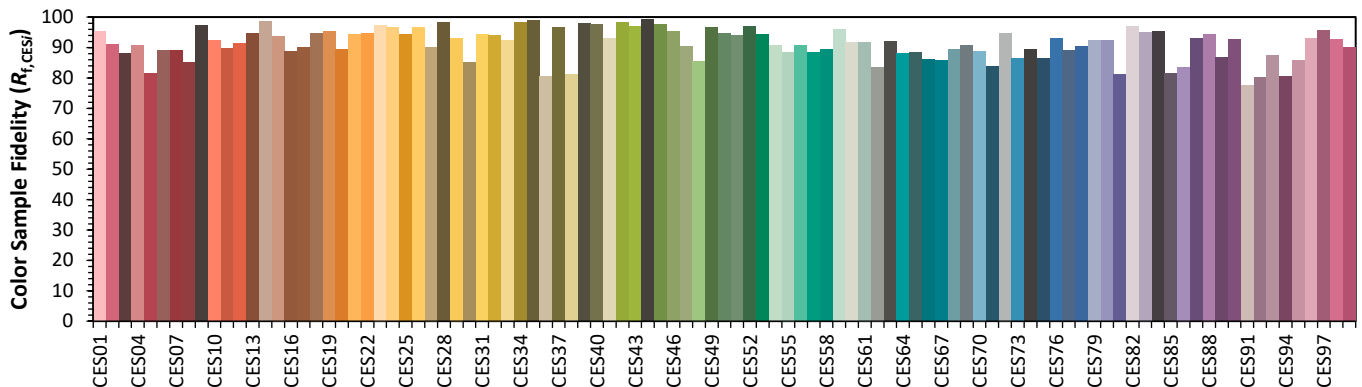
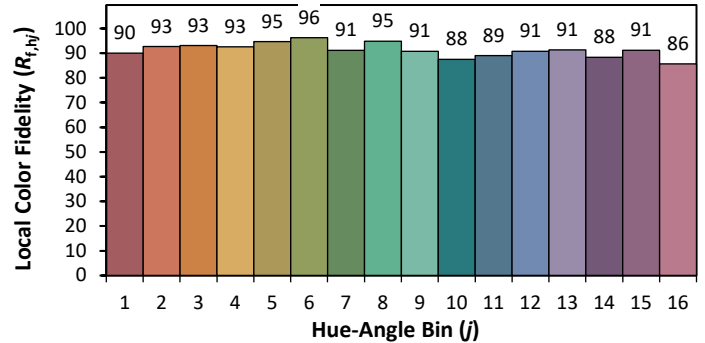
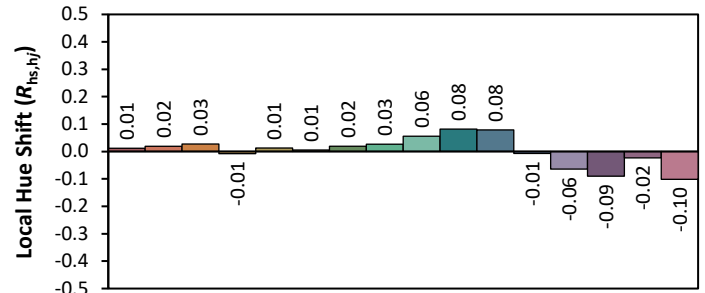
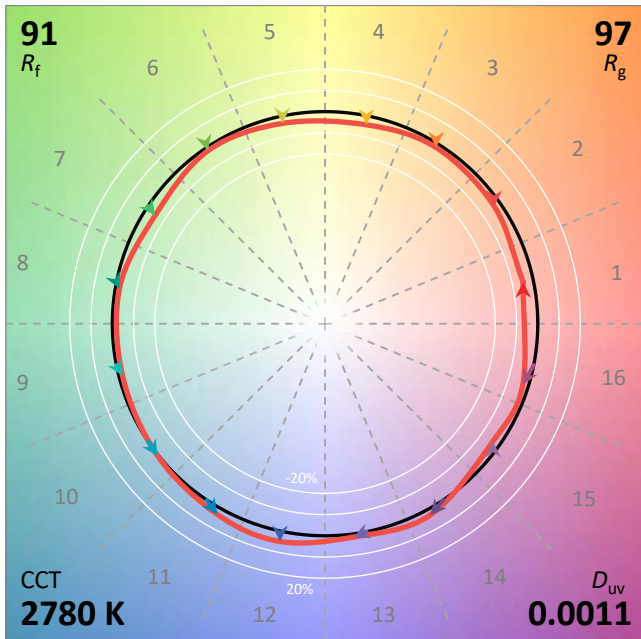
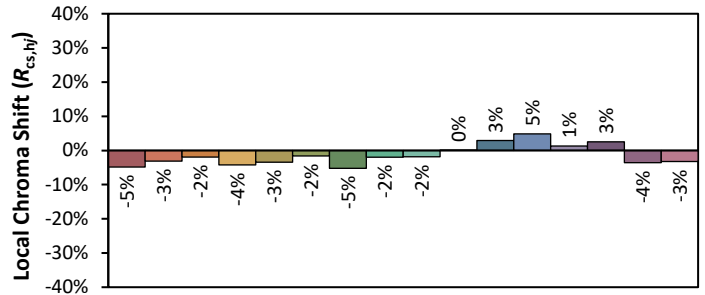
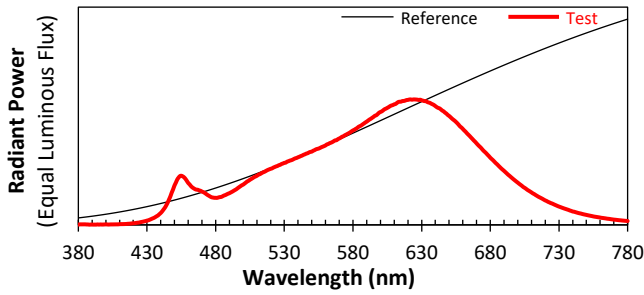
ANSI/IES TM-30-18 Color Rendition Report

Source: 21.01661

Manufacturer: PROGRESS

Date: 10/27/2021

Model: P560299-31M JAM-PE-17



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4553
y 0.4125
u' 0.2587
v' 0.5274

CIE 13.3-1995	
(CRI)	
R _a	93
R _g	61



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LUMINAIRE: Wall Sconce with G-Tech 8W Light Engine w/ Lens

LAMP CAT. NO.: GT00016520-120V08W30

LAMP: 42- G-Tech 2700K LEDs

MOUNTING: Surface/Wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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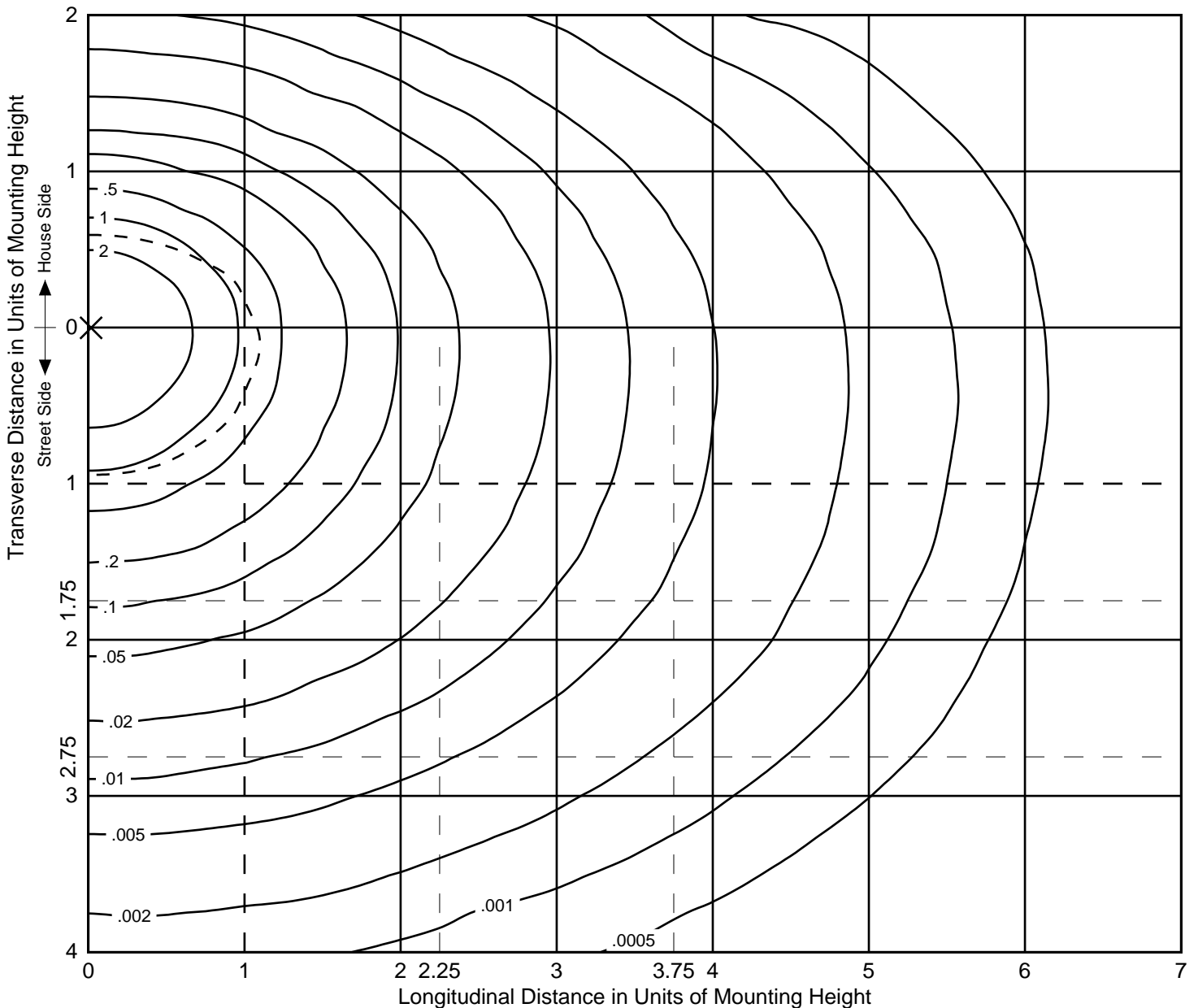
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION Values based on 6-foot mounting height

IES Classification: (does not classify)
Cutoff Classification (deprecated): Full Cutoff

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

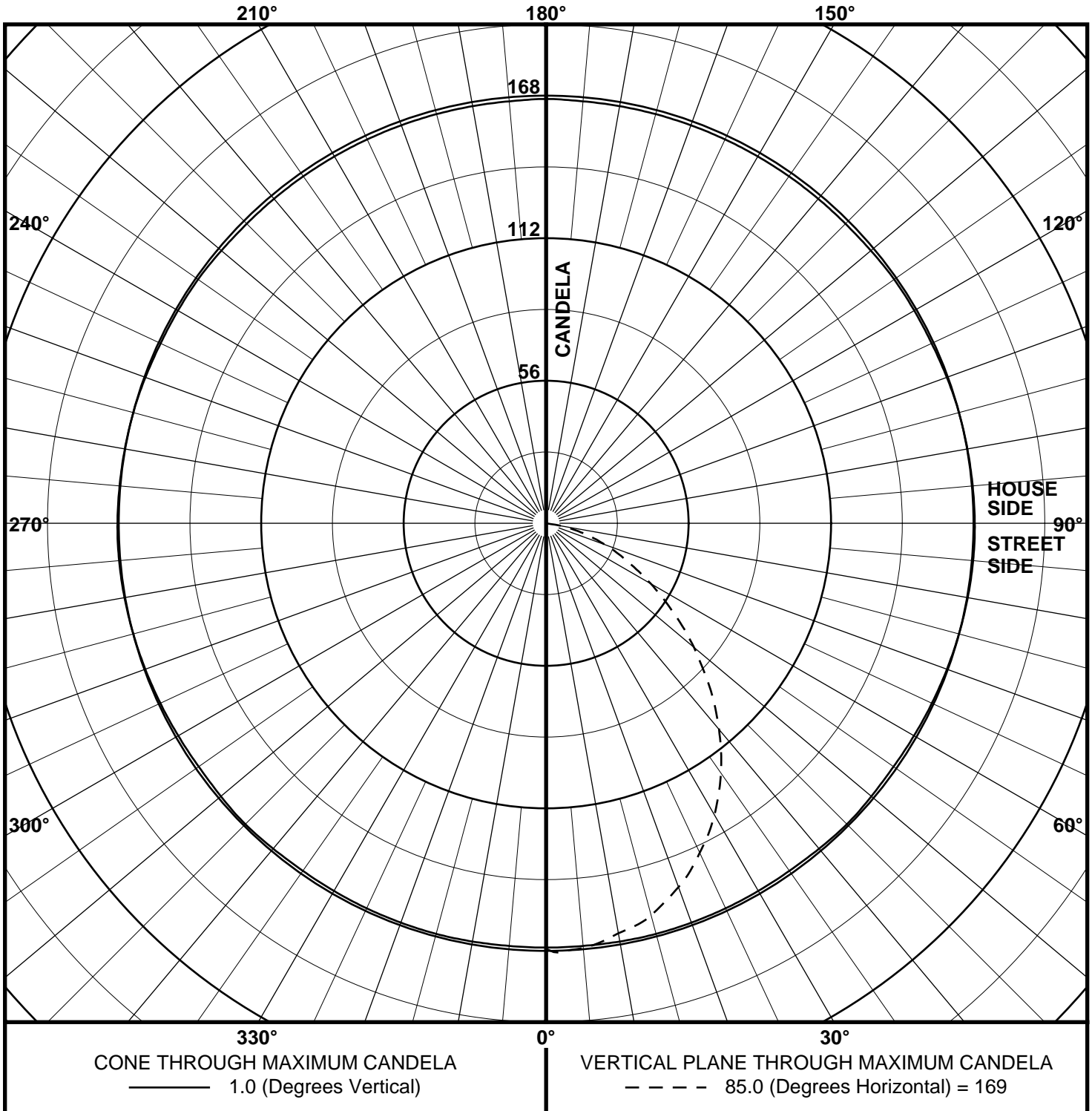




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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

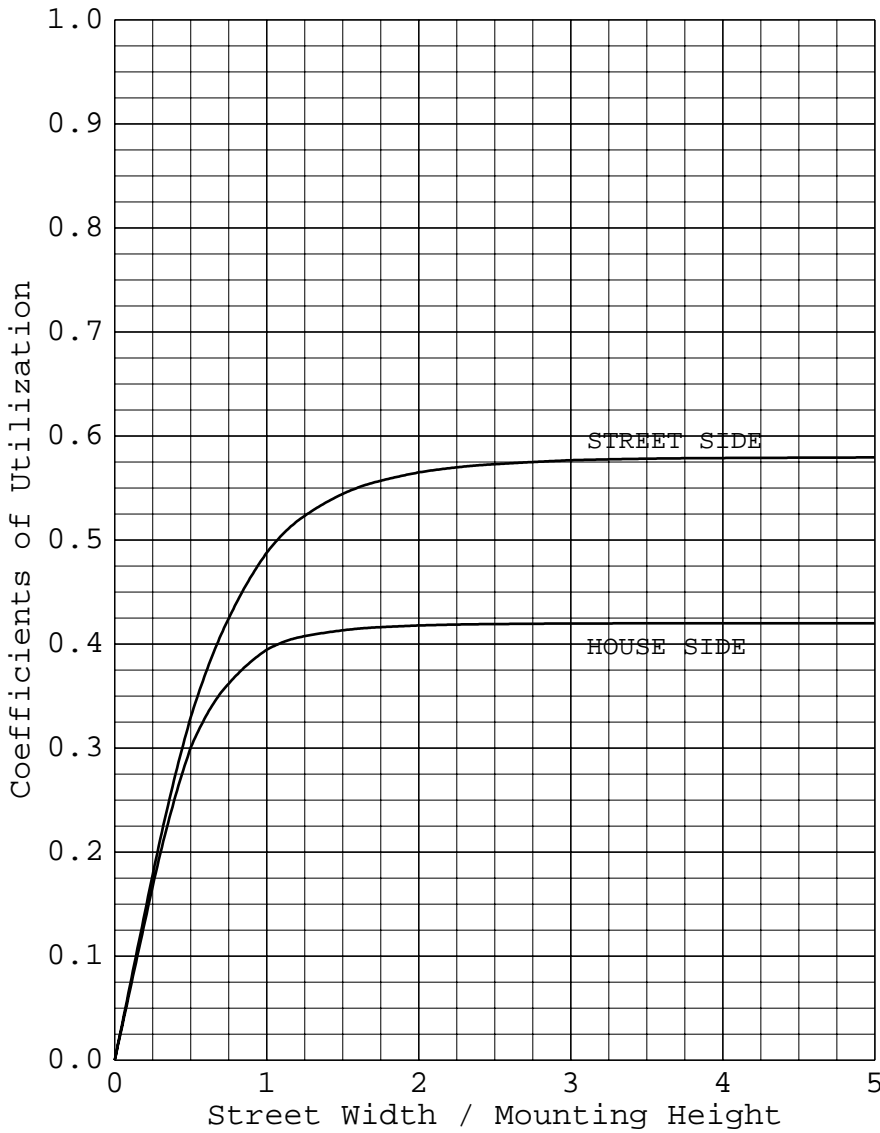




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	177	58.0
DOWNWARD HOUSE SIDE	129	42.0
DOWNWARD TOTAL	306	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	306	100.0
EFFICACY = 37.4 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		
			B	U	G
Forward	177	58.0			
FL (0° – 30°)	62.7	20.5			
FM (30° – 60°)	94.1	30.8			
FH (60° – 80°)	20.3	6.6			G0
FVH (80° – 90°)	0.2	0.1			G0
Backward	129	42.0			
BL (0° – 30°)	57.3	18.7	B0		
BM (30° – 60°)	62.3	20.4	B0		
BH (60° – 80°)	8.9	2.9	B0		G0
BVH (80° – 90°)	0.1	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	306	100.0			



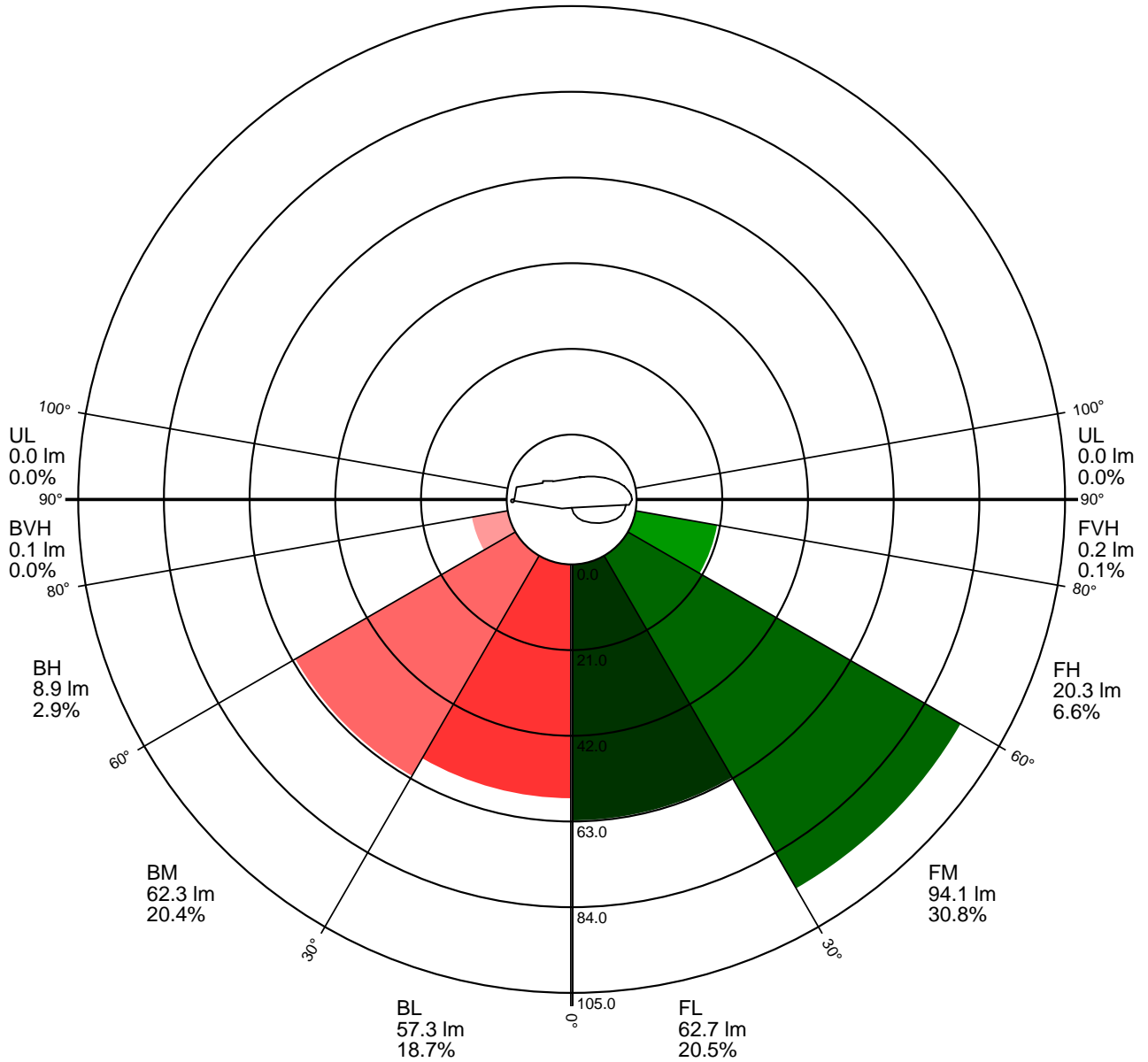
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Zonal Lumen Summary

(Linear scale)

UH
0.0 lm
0.0%



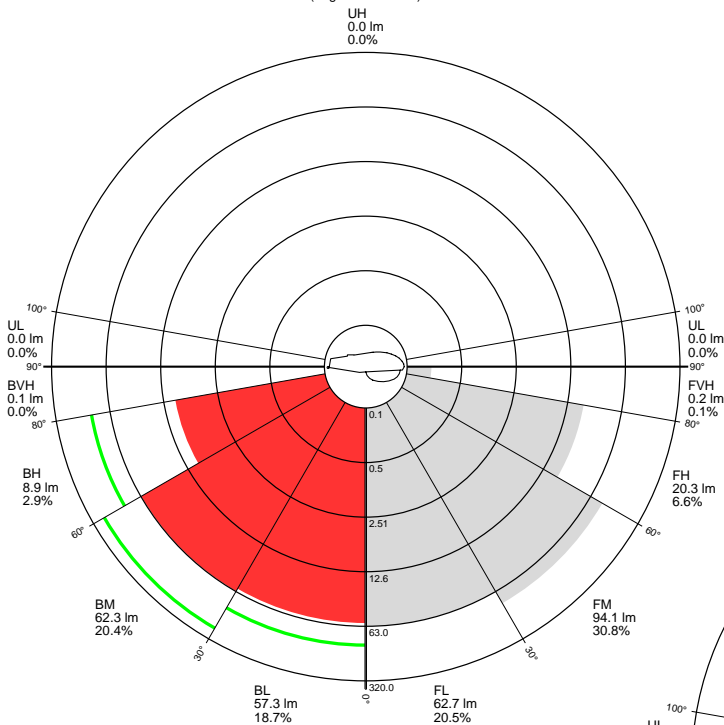


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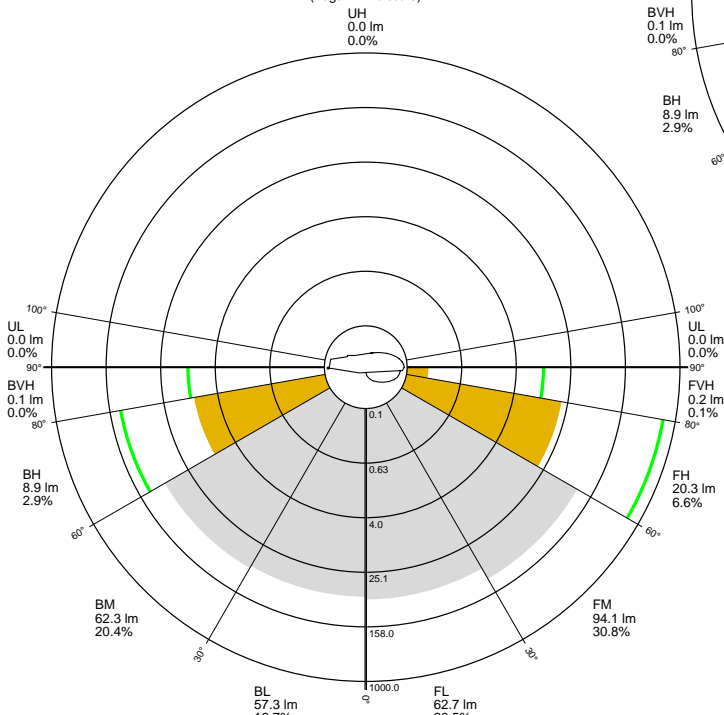
Backlight Rating Details

(Logarithmic scale)



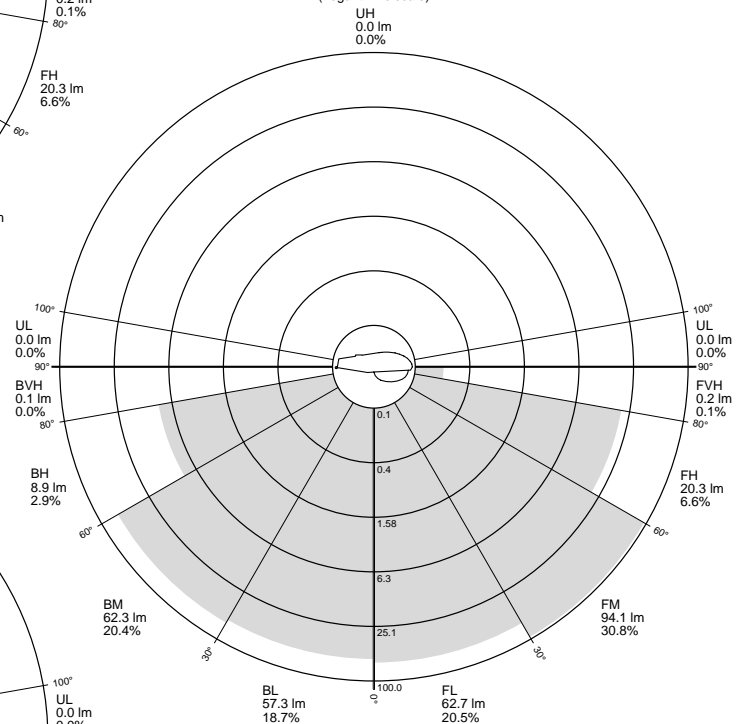
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	82.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	80.0	1.	1.	1.	1.	1.	2.	4.	5.	6.	6.	6.
	77.5	2.	2.	2.	3.	4.	5.	8.	10.	11.	10.	10.
	75.0	4.	5.	5.	6.	7.	10.	13.	15.	15.	15.	14.
	72.5	8.	8.	8.	10.	12.	15.	18.	19.	20.	20.	19.
	70.0	12.	12.	12.	14.	17.	20.	23.	25.	25.	25.	24.
	67.5	16.	16.	17.	20.	22.	26.	28.	30.	30.	30.	29.
	65.0	21.	21.	22.	25.	28.	32.	34.	35.	36.	35.	35.
	62.5	27.	27.	28.	31.	34.	38.	39.	41.	42.	41.	40.
V	60.0	32.	33.	34.	37.	40.	44.	46.	48.	48.	48.	47.
E	57.5	39.	40.	41.	44.	47.	51.	53.	54.	55.	54.	53.
R	55.0	47.	47.	48.	51.	54.	57.	59.	61.	62.	61.	61.
T	52.5	54.	54.	56.	59.	61.	64.	67.	69.	69.	69.	67.
I	50.0	62.	63.	63.	66.	69.	72.	74.	76.	76.	76.	75.
C	47.5	70.	70.	71.	73.	76.	79.	81.	83.	84.	83.	82.
A	45.0	77.	78.	79.	82.	84.	87.	89.	91.	91.	91.	90.
L	42.5	86.	86.	87.	90.	92.	95.	97.	98.	99.	98.	98.
	40.0	94.	95.	95.	97.	99.	102.	104.	106.	106.	106.	105.
A	37.5	102.	102.	103.	105.	107.	109.	111.	113.	113.	113.	111.
N	35.0	110.	111.	111.	113.	115.	117.	118.	119.	120.	120.	119.
G	32.5	118.	119.	119.	120.	122.	124.	125.	127.	127.	126.	126.
L	30.0	126.	126.	127.	128.	129.	130.	131.	132.	133.	132.	132.
E	27.5	133.	133.	133.	134.	135.	136.	137.	138.	138.	138.	137.
	25.0	139.	139.	140.	140.	141.	142.	142.	143.	143.	143.	142.
	22.5	145.	145.	145.	146.	146.	147.	147.	148.	148.	148.	147.
	20.0	150.	150.	151.	151.	151.	152.	152.	152.	152.	152.	152.
	17.5	154.	155.	154.	155.	155.	155.	155.	156.	156.	156.	155.
	15.0	159.	158.	158.	158.	159.	159.	159.	159.	159.	160.	159.
	12.5	161.	161.	161.	161.	161.	162.	161.	162.	162.	162.	162.
	10.0	164.	164.	164.	164.	164.	163.	164.	164.	164.	164.	164.
	7.5	165.	165.	165.	165.	165.	165.	165.	165.	166.	166.	165.
	5.0	166.	167.	166.	166.	166.	166.	166.	167.	167.	168.	167.
	2.5	167.	167.	167.	167.	167.	167.	167.	167.	168.	168.	168.
	1.0<<	167.	167.	167.	167.	167.	167.	167.	167.	168.	169.	169.
	0.0	167.	167.	167.	167.	167.	167.	167.	167.	167.	167.	167.

CONE OF MAXIMUM CANDELA

PLANE OF MAXIMUM CANDELA



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CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE							
	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.
	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	5.	3.	1.	0.	0.	0.	1.	0.	0.
	77.5	9.	6.	2.	1.	0.	0.	0.	0.	0.
	75.0	13.	9.	5.	3.	2.	1.	0.	0.	0.
	72.5	18.	14.	8.	4.	2.	1.	1.	1.	1.
	70.0	23.	18.	12.	7.	4.	3.	2.	2.	2.
	67.5	28.	23.	16.	10.	6.	4.	3.	3.	3.
	65.0	33.	28.	20.	13.	8.	6.	5.	4.	4.
	62.5	39.	34.	25.	17.	11.	8.	6.	5.	5.
V	60.0	45.	40.	31.	22.	15.	11.	8.	7.	6.
E	57.5	52.	46.	37.	27.	19.	14.	11.	9.	8.
R	55.0	59.	53.	44.	33.	24.	18.	14.	12.	11.
T	52.5	66.	60.	50.	40.	30.	23.	17.	15.	14.
I	50.0	73.	68.	58.	47.	36.	28.	22.	19.	17.
C	47.5	81.	75.	66.	54.	43.	34.	28.	24.	22.
A	45.0	88.	83.	74.	63.	51.	42.	34.	30.	28.
L	42.5	96.	91.	82.	71.	60.	50.	42.	38.	35.
	40.0	104.	99.	91.	80.	68.	59.	51.	46.	43.
A	37.5	111.	106.	98.	89.	77.	69.	60.	56.	52.
N	35.0	117.	113.	107.	98.	87.	78.	70.	65.	62.
G	32.5	124.	120.	114.	106.	97.	88.	81.	76.	73.
L	30.0	131.	127.	121.	115.	106.	99.	91.	87.	84.
E	27.5	136.	133.	129.	122.	115.	108.	102.	98.	95.
	25.0	142.	139.	135.	130.	124.	118.	112.	109.	106.
	22.5	147.	144.	141.	137.	132.	128.	122.	120.	118.
	20.0	151.	149.	146.	143.	139.	136.	132.	130.	128.
	17.5	155.	153.	151.	148.	145.	142.	140.	138.	137.
	15.0	159.	157.	155.	153.	150.	149.	147.	146.	145.
	12.5	161.	160.	159.	157.	155.	154.	153.	152.	151.
	10.0	164.	163.	161.	160.	159.	158.	157.	157.	156.
	7.5	166.	164.	163.	163.	161.	161.	160.	160.	160.
	5.0	167.	166.	165.	165.	164.	164.	163.	163.	163.
	2.5	169.	168.	167.	167.	166.	165.	166.	166.	166.
	1.0<<	168.	168.	167.	167.	166.	166.	166.	166.	166.
	0.0	167.	167.	167.	167.	167.	167.	167.	167.	167.

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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	4
5-	10	12
10-	15	19
15-	20	25
20-	25	29
25-	30	32
30-	35	32
35-	40	31
40-	45	29
45-	50	25
50-	55	21
55-	60	17
60-	65	13
65-	70	9
70-	75	5
75-	80	2
80-	85	0
85-	90	0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	16
0-	20	59
0-	30	120
0-	40	184
0-	50	238
0-	60	276
0-	70	298
0-	80	306
0-	90	306

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Date
10/29/2021

Goniophotometer Calibration

Calibration Lamp: EIKO 28V75W/E10
Lamp Number: SCL-1400-K136
Calibration Current: 2.679 Amps
Total Luminous Flux: 1429 Lumens

Test Equipment Used			
<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
Ambient Sensor	NI / USB-TC01	176F4E3	10/31/2021
Power Meter	Yokogawa / WT330	C2QA27071V	10/31/2022
Power Supply (DUT)	Voltage-Regulated House Power / Lab 1	N/A	N/A
Goniophotometer	ITL / HLI Lab 1- Test Distance: 31.74	N/A	8/28/2022

3-Meter-Sphere Calibration

Calibration Lamp: EIKO 28V75W/E10
Lamp Number: SCL-1400-K136
Calibration Current: 2.679 Amps
Total Luminous Flux: 1429 Lumens

Test Equipment Used - Color & SPD			
<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
Cal Lamp Supply	Labsphere/LPS-150-0268	1218148505	N/A
Aux. Lamp Supply	GWInstek / PSU 150-10	GER221028	N/A
Ambient Sensor	NI / USB-TC01	1912751	10/31/2022
Power Meter	Yokogawa / WT330	C2QA27072V	10/31/2022
Power Supply (DUT)	Chroma / 61602	61602002113	N/A
3-Meter Sphere	Labsphere / LMS-3M	N/A	10/31/2025
Spectrometer	Labsphere / CDS-1100	0624117792	10/31/2025

Test Equipment Used - THD & Power Factor			
<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
Power Meter	Yokogawa / WT330	C2QA27071V	10/31/2022
Power Supply (DUT)	Voltage-Regulated House Power / Lab 1	N/A	N/A

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End of Report