

Project Number
P21.01733



HUBBELL
Lighting

Date
11/10/2021

Photometric Test Report

Lab 1
Sphere

Test Sample Description

Catalog Number: P560300-31M JAM-PE-19
Description: Wall Sconce with Paragon 6W Light Engine

Photometry

Test Method: IES LM-31-95
IES LM-79-08 §10
Preburn Time: 1:30
Time To Stabilize: 2:23
Total Operating Time: 4:30

Voltage (Volts): 120.0
Current (Amps): 0.056
Power (Watts): 6.2
Ambient Temp (°C): 24.9
PF @ 120V (%): 0.911
THD @ 120V (%): 46.0
PF @ 277V
THD @ 277V

Sphere

Test Method: IES LM-16-93
IES LM-79-08 §12.1
Preburn Time: 0:30
Time To Stabilize: 1:30
Total Operating Time: 2:00

Voltage (Volts): 120.0
Current (Amps): 0.056
Power (Watts): 6.1
Ambient Temp (°C): 24.0



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.



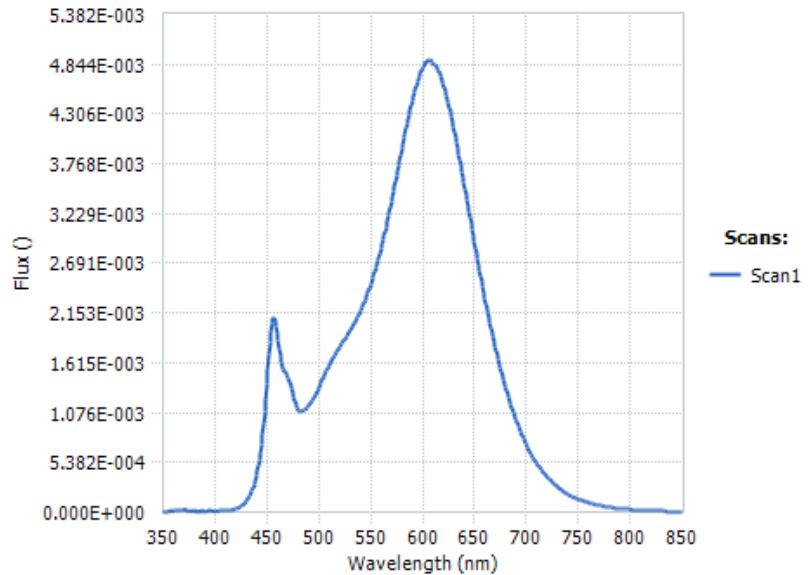
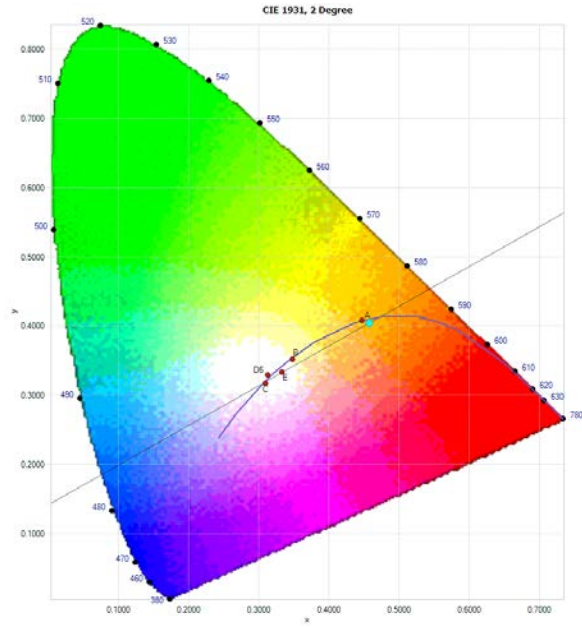
Lamp Cat#: CDAC-20-30135-120V-30 6W

Lamp Desc: 1 - Paragon 2700K LED

Efficacy: 35.5LPW

S/P Ratio: 1.3lm`/Lm

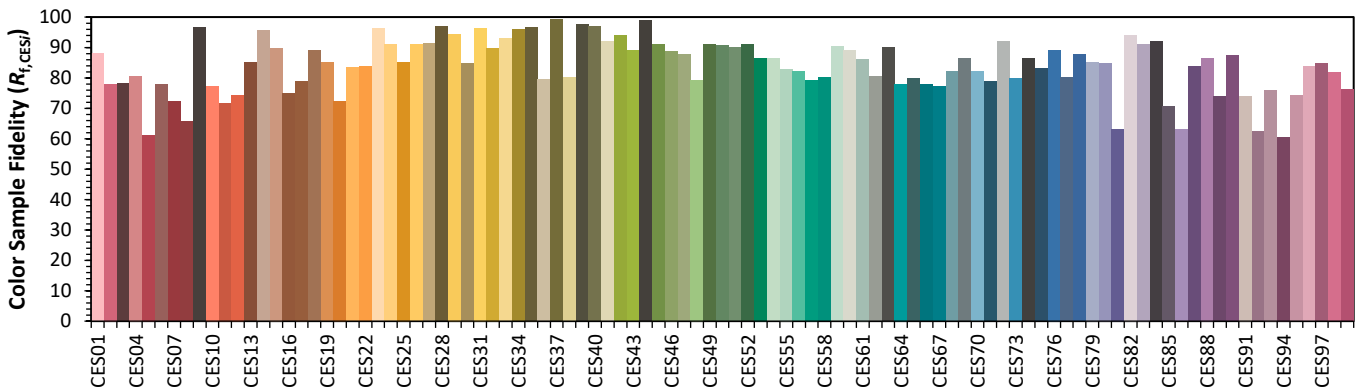
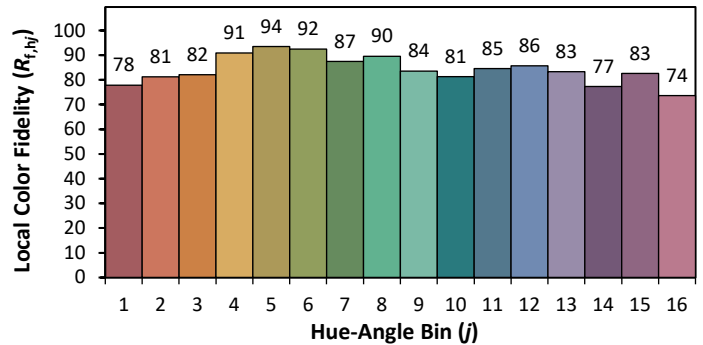
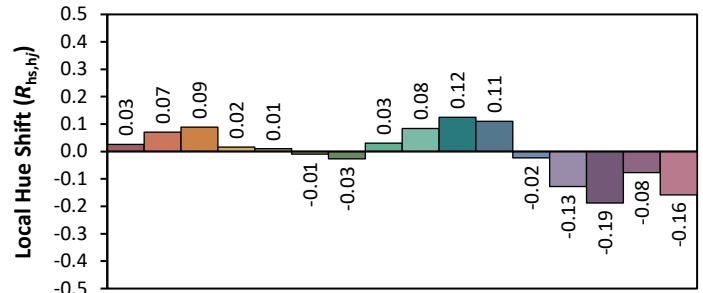
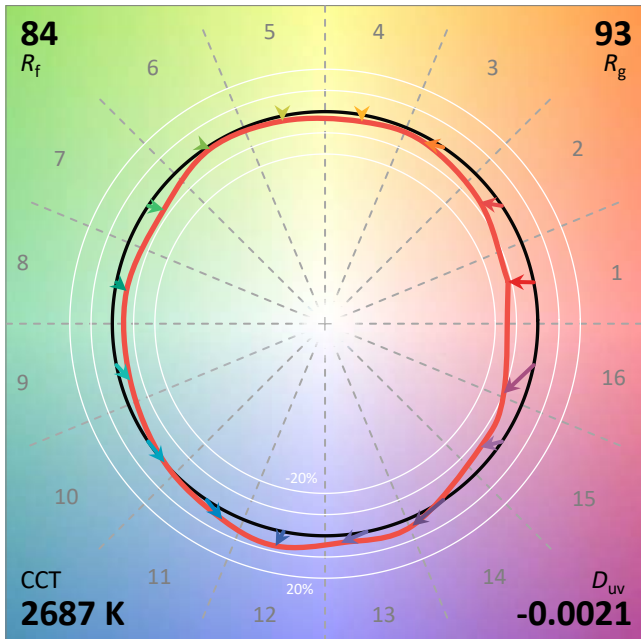
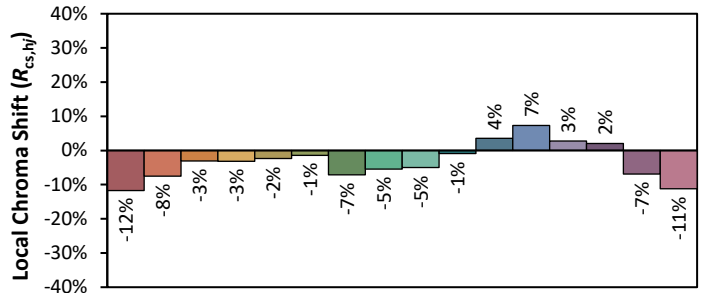
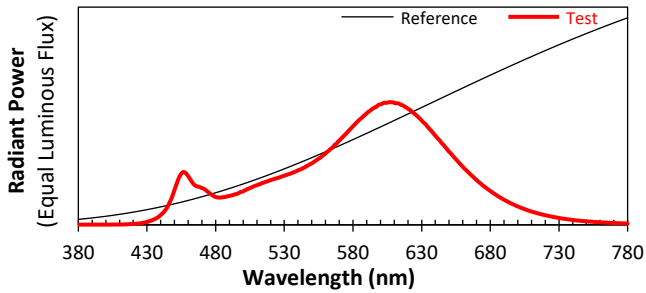
Spectral Results		
Name	Value	Unit
Radiant Flux	0.68	Watts
Lflux	217	Lumens
Scotopic Lumens	276	
Chrom x	0.4573	
Chrom y	0.4043	
Chrom u	0.2637	
Chrom v	0.3497	
Duv	0.0025	
Chrom u'	0.2637	
Chrom v'	0.5245	
CCT	2685	°K
Purity	58.6	%
Dominant Wavelength	585.0	nm
FWHM	107.9	
Peak Wavelength	607.4	nm
Lamda (Center)	603.8	nm
Centroid Wavelength	587.5	nm
SDCM		
RA	82	
Corr. Coef.	0.002145500	
Correlation	0.0054	
R1	82.7	
R2	95.7	
R3	89.7	
R4	78.7	
R5	83.6	
R6	95.1	
R7	78.0	
R8	55.4	
R9	8.4	
R10	90.6	
R11	78.7	
R12	79.9	
R13	86.3	
R14	95.1	



ANSI/IES TM-30-18 Color Rendition Report

Source: 21.01733
 Date: 11/10/2021

Manufacturer: PROGRESS
 Model: P560300-31M JAM-PE-19



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

x 0.4573
 y 0.4043
 u' 0.2637
 v' 0.5245

CIE 13.3-1995	
(CRI)	
R_a	82
R_g	9



®

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CATALOG NUMBER: P560300-31M JAM-PE-19

LUMINAIRE: Wall Sconce with Paragon 6W Light Engine
w/ Frosted Glass Lens

LAMP CAT. NO.: CDAC-20-30135-120V-30 6W

LAMP: 1- Paragon 2700K LED

MOUNTING: Surface/Wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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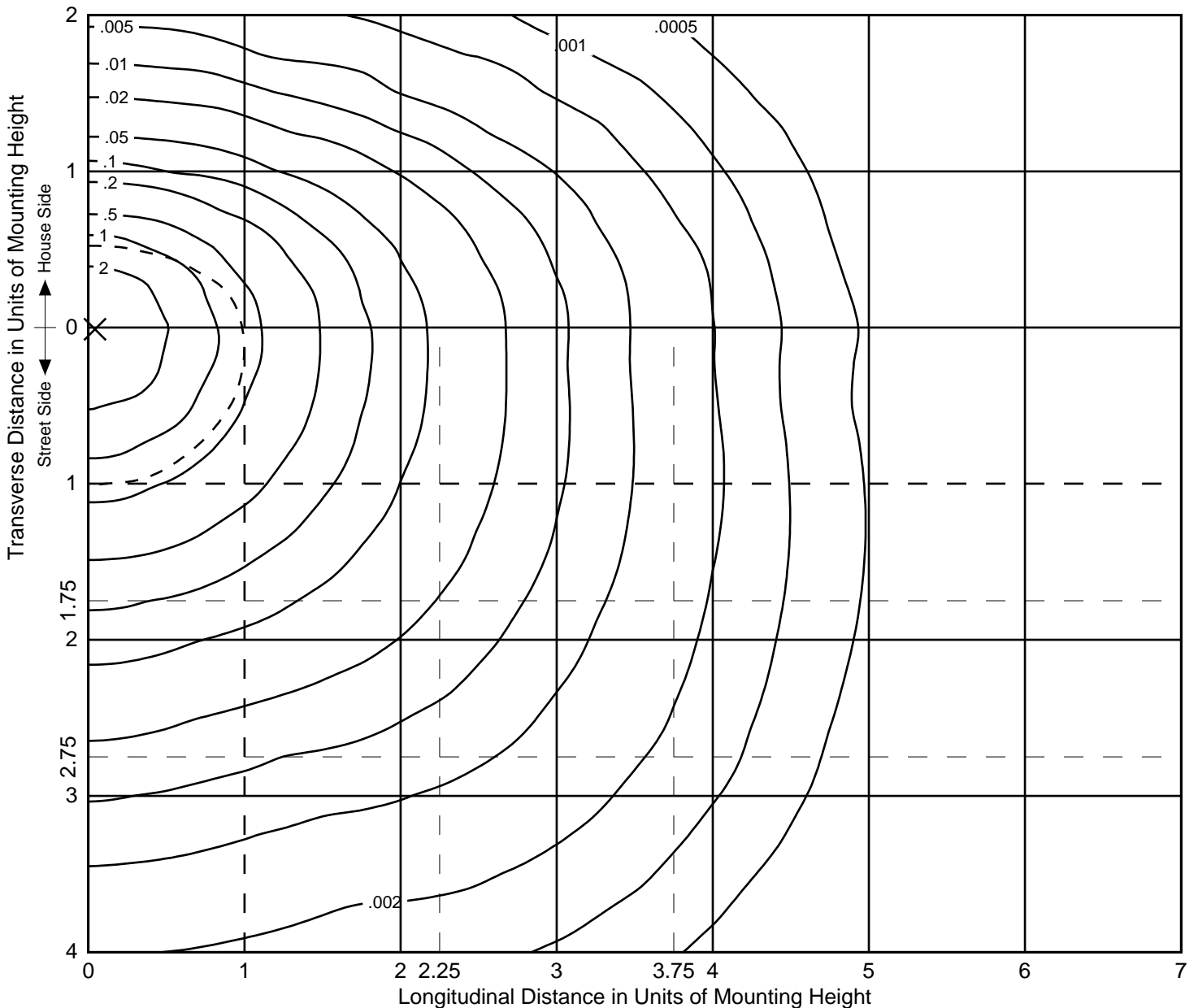
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 6-foot mounting height

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

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

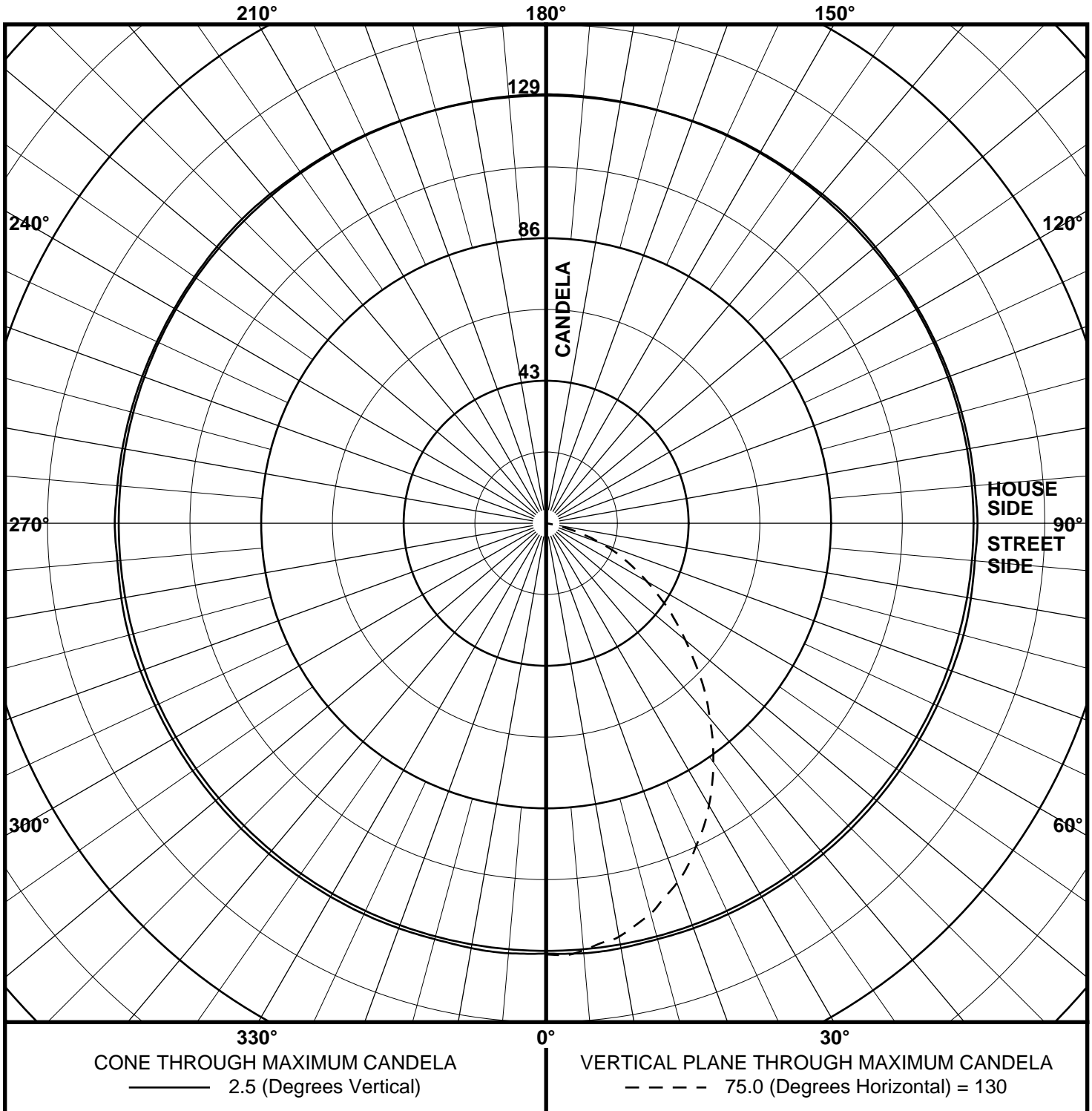




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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

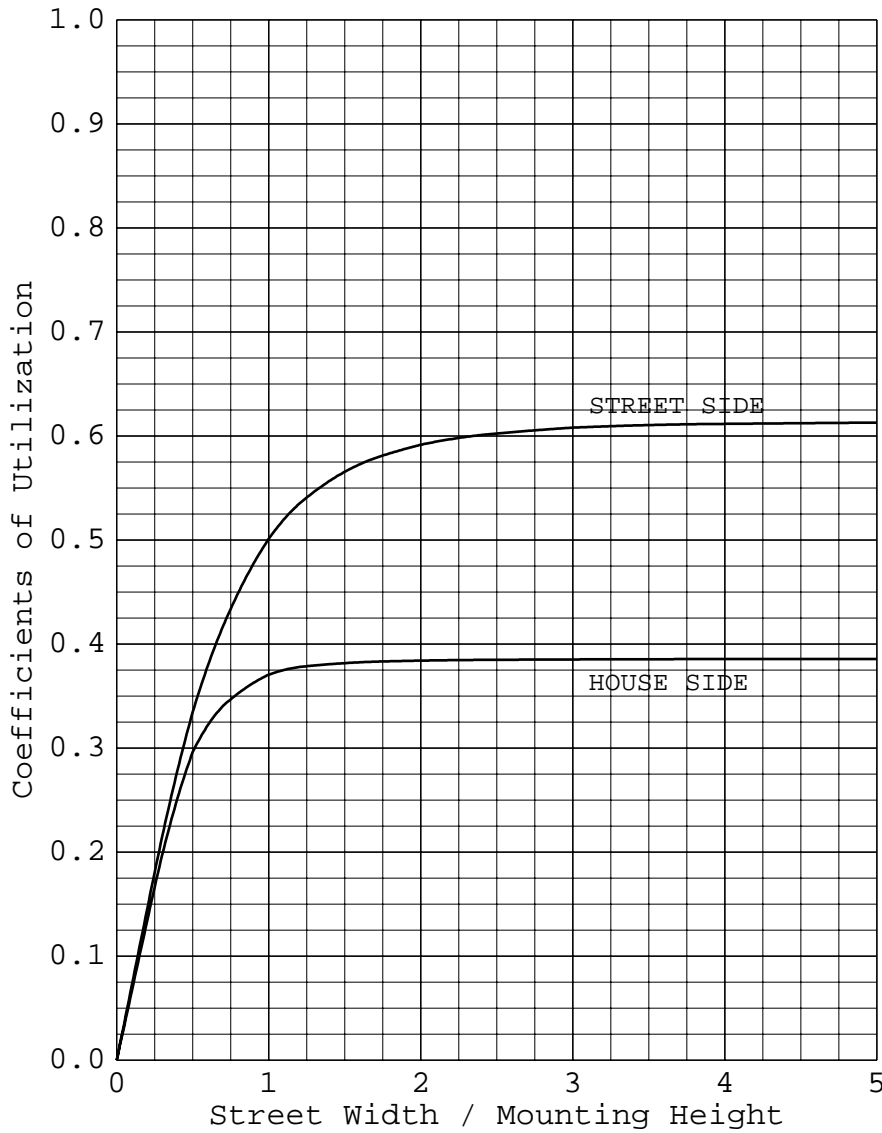




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	139	61.4
DOWNWARD HOUSE SIDE	87	38.6
DOWNWARD TOTAL	226	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	226	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		
			B	U	G
Forward	139	61.4			
FL (0° – 30°)	48.2	21.3			
FM (30° – 60°)	73.0	32.3			
FH (60° – 80°)	17.4	7.7			G0
FVH (80° – 90°)	0.2	0.1			G0
Backward	87	38.6			
BL (0° – 30°)	42.8	18.9	B0		
BM (30° – 60°)	39.5	17.4	B0		
BH (60° – 80°)	5.0	2.2	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	226	100.0			



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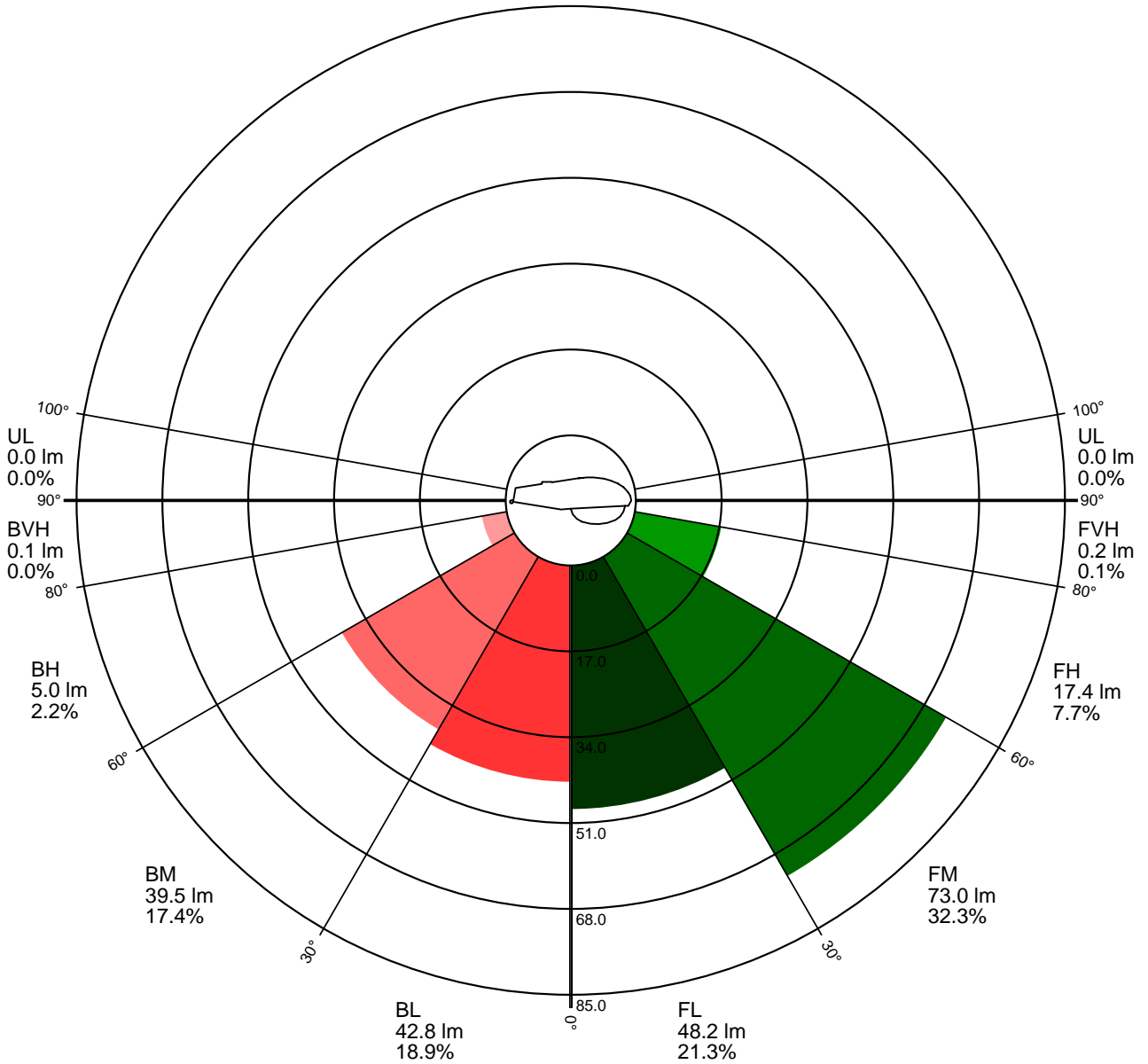
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Zonal Lumen Summary

(Linear scale)

UH
0.0 lm
0.0%



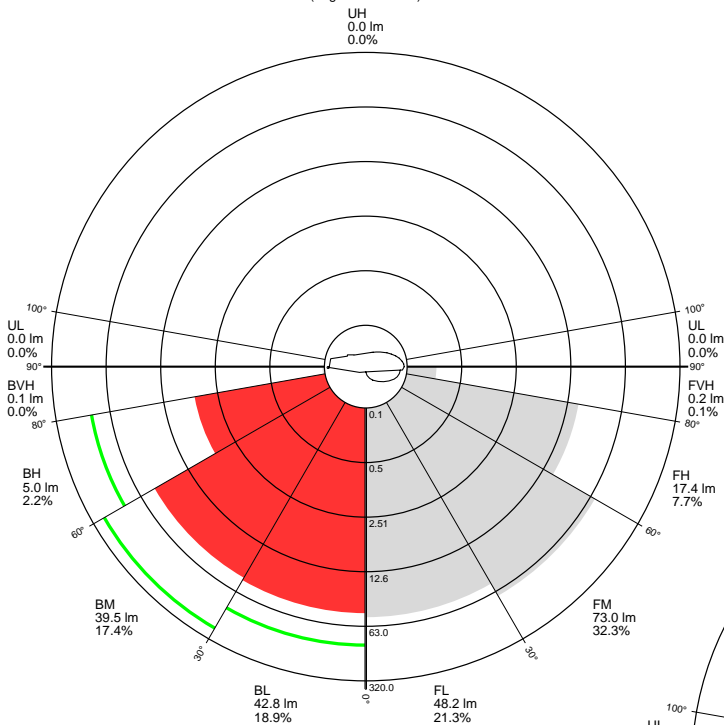


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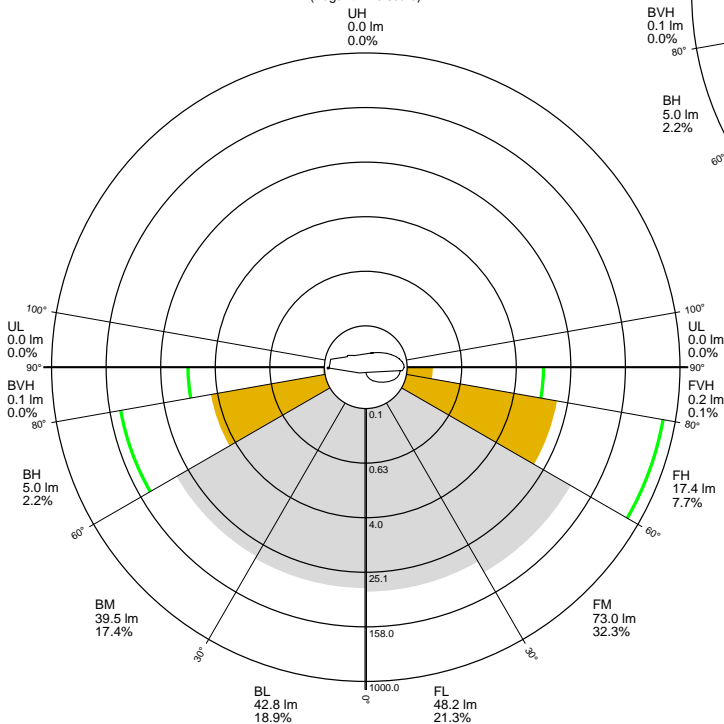
Backlight Rating Details

(Logarithmic scale)



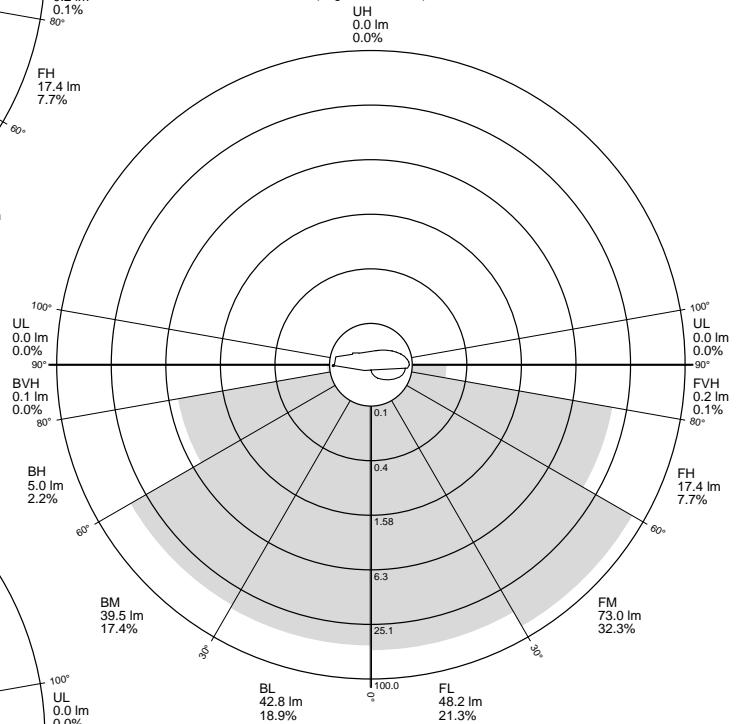
Glare Rating Details

(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	1.	0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	80.0	1.	1.	1.	2.	3.	3.	3.	2.	2.	1.	1.
	77.5	4.	4.	3.	4.	6.	7.	7.	6.	4.	3.	3.
	75.0	6.	6.	6.	7.	9.	12.	11.	10.	9.	7.	6.
	72.5	10.	10.	10.	10.	13.	16.	16.	15.	13.	11.	11.
	70.0	15.	14.	14.	14.	17.	20.	21.	19.	18.	16.	16.
	67.5	19.	19.	18.	19.	22.	24.	24.	24.	22.	21.	20.
	65.0	24.	24.	23.	24.	26.	28.	28.	28.	26.	25.	24.
V	62.5	29.	28.	28.	29.	31.	32.	32.	32.	31.	29.	29.
E	60.0	33.	33.	33.	34.	35.	36.	37.	36.	35.	34.	33.
R	57.5	38.	38.	38.	39.	40.	41.	41.	41.	40.	39.	38.
T	55.0	44.	44.	44.	45.	45.	46.	46.	46.	45.	43.	42.
I	52.5	49.	49.	49.	50.	50.	51.	51.	51.	50.	48.	48.
C	50.0	54.	54.	55.	55.	56.	56.	56.	56.	55.	54.	53.
A	47.5	60.	60.	60.	60.	61.	61.	61.	61.	60.	59.	58.
L	45.0	65.	65.	66.	66.	67.	67.	67.	66.	66.	64.	63.
	42.5	71.	71.	72.	72.	72.	73.	72.	72.	72.	70.	69.
A	40.0	77.	77.	77.	78.	78.	78.	78.	78.	77.	75.	75.
N	37.5	83.	83.	83.	83.	83.	83.	83.	83.	83.	81.	81.
G	35.0	88.	88.	88.	89.	89.	89.	89.	88.	88.	87.	87.
L	32.5	94.	94.	94.	94.	94.	94.	94.	94.	93.	92.	92.
E	30.0	99.	99.	99.	99.	99.	99.	100.	99.	98.	97.	97.
	27.5	103.	104.	103.	104.	104.	104.	104.	103.	103.	102.	102.
	25.0	108.	108.	108.	109.	109.	109.	109.	108.	107.	106.	106.
	22.5	113.	113.	113.	113.	113.	113.	113.	112.	112.	111.	111.
	20.0	116.	117.	117.	117.	117.	117.	117.	116.	116.	115.	115.
	17.5	120.	120.	120.	120.	120.	120.	119.	119.	119.	118.	118.
	15.0	123.	123.	123.	123.	123.	123.	123.	123.	122.	121.	121.
	12.5	126.	126.	125.	126.	125.	125.	125.	125.	124.	124.	124.
	10.0	127.	127.	127.	127.	128.	127.	127.	127.	127.	126.	127.
	7.5	129.	128.	129.	128.	128.	128.	128.	128.	128.	128.	128.
	5.0	129.	130.	129.	129.	129.	129.	130.	129.	129.	129.	129.
	2.5<<	130.	130.	130.	130.	130.	130.	130.	130.	130.	130.	130.
	0.0	130.	130.	130.	130.	130.	130.	130.	130.	130.	130.	130.

PLANE OF MAXIMUM CANDELA

CONE 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.	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	1.	1.	0.	0.	0.	1.	0.	1.	0.	1.
80.0	1.	1.	1.	0.	0.	0.	1.	1.	1.	1.
77.5	3.	2.	1.	1.	1.	1.	1.	1.	0.	0.
75.0	6.	4.	2.	1.	1.	0.	1.	0.	0.	1.
72.5	11.	8.	3.	2.	1.	1.	1.	1.	1.	1.
70.0	15.	11.	6.	3.	2.	1.	1.	0.	1.	1.
67.5	19.	15.	9.	4.	3.	2.	1.	2.	1.	1.
65.0	23.	19.	12.	6.	3.	2.	1.	2.	1.	1.
V 62.5	27.	22.	15.	9.	5.	3.	2.	2.	2.	2.
E 60.0	31.	27.	19.	11.	7.	4.	3.	3.	2.	2.
R 57.5	36.	31.	23.	14.	9.	6.	4.	3.	3.	3.
T 55.0	41.	36.	28.	18.	12.	8.	6.	5.	4.	4.
I 52.5	46.	41.	33.	22.	15.	10.	7.	6.	5.	5.
C 50.0	51.	47.	38.	28.	19.	13.	10.	8.	7.	7.
A 47.5	56.	52.	44.	33.	24.	17.	12.	10.	9.	9.
L 45.0	62.	58.	50.	40.	29.	21.	16.	14.	12.	12.
42.5	68.	64.	57.	47.	36.	27.	21.	18.	16.	16.
A 40.0	74.	70.	63.	53.	43.	34.	27.	23.	21.	21.
N 37.5	79.	76.	70.	61.	51.	41.	34.	29.	27.	27.
G 35.0	85.	82.	77.	68.	59.	50.	43.	38.	35.	34.
L 32.5	91.	87.	83.	76.	67.	59.	51.	46.	44.	44.
E 30.0	96.	93.	89.	83.	76.	68.	61.	56.	54.	54.
27.5	100.	98.	95.	90.	83.	77.	71.	67.	64.	63.
25.0	105.	103.	100.	96.	91.	86.	81.	76.	75.	75.
22.5	110.	108.	106.	103.	98.	94.	90.	87.	85.	86.
20.0	114.	112.	110.	108.	105.	102.	98.	96.	94.	94.
17.5	118.	116.	114.	113.	110.	108.	106.	104.	103.	103.
15.0	121.	119.	118.	117.	116.	114.	112.	111.	110.	110.
12.5	124.	122.	122.	120.	120.	119.	118.	117.	116.	116.
10.0	126.	125.	125.	124.	123.	122.	122.	121.	121.	121.
7.5	128.	127.	126.	126.	126.	125.	125.	124.	124.	124.
5.0	129.	129.	128.	128.	128.	128.	127.	127.	127.	127.
2.5<<	130.	130.	130.	130.	130.	129.	129.	129.	129.	129.
0.0	130.	130.	130.	130.	130.	130.	130.	130.	130.	130.

CONE OF MAXIMUM CANDELA



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	3
5-	10	9
10-	15	14
15-	20	19
20-	25	22
25-	30	24
30-	35	24
35-	40	22
40-	45	21
45-	50	18
50-	55	15
55-	60	13
60-	65	10
65-	70	7
70-	75	4
75-	80	2
80-	85	0
85-	90	0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	12
0-	20	46
0-	30	91
0-	40	137
0-	50	176
0-	60	203
0-	70	220
0-	80	226
0-	90	226

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HUBBELL
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Date
11/10/2021

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	10/31/2022
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	C2QA27075V	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