

Project Number  
**P21.01662**



**HUBBELL**  
**Lighting**

Date  
**10/29/2021**

## Photometric Test Report

**Lab 1**  
**Sphere**

### Test Sample Description

**Catalog Number:** P560300-192 JAM-PE-19  
**Description:** Wall Sconce with Paragon 6W Light Engine (-192)

### Photometry

**Test Method:** IES LM-31-95  
IES LM-79-08 §10  
**Preburn Time:** 0:20  
**Time To Stabilize:** 0:37  
**Total Operating Time:** 2:00  
  
**Voltage (Volts):** 119.9  
**Current (Amps):** 0.056  
**Power (Watts):** 6.2  
**Ambient Temp (°C):** 25.0  
**PF @ 120V (%):** 0.917  
**THD @ 120V (%):** 44.3  
**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):** 0.056  
**Power (Watts):** 6.1  
**Ambient Temp (°C):** 24.3



### 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.*

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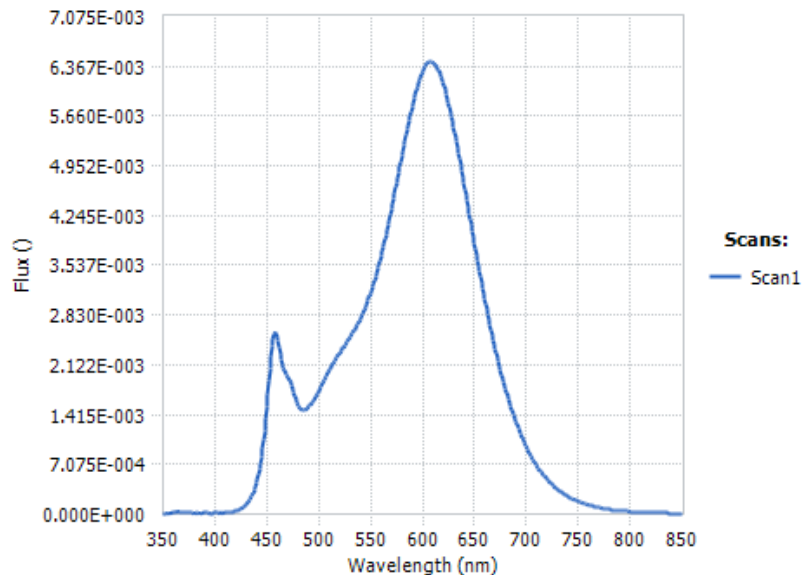
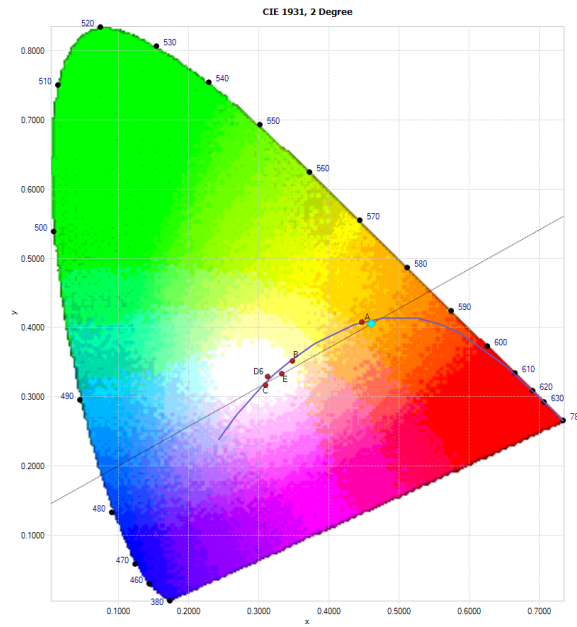
Lamp Cat#: CDAC-20-30135-120V-30 6W

Lamp Desc: 1 - Paragon 2700K LEDs

Efficacy: 46.1LPW

S/P Ratio: 1.3lm`/Lm

Spectral Results		
Name	Value	Unit
Radiant Flux	0.88	Watts
Lflux	281	Lumens
Scotopic Lumens	356	
Chrom x	0.4606	
Chrom y	0.4054	
Chrom u	0.2653	
Chrom v	0.3503	
Duv	0.0020	
Chrom u'	0.2653	
Chrom v'	0.5254	
CCT	2648	°K
Purity	59.9	%
Dominant Wavelength	585.1	nm
FWHM	106.5	
Peak Wavelength	606.9	nm
Lamda (Center)	604.8	nm
Centroid Wavelength	588.3	nm
SDCM		
RA	82	
Corr. Coef.	0.001999500	
Correlation	0.0054	
R1	83.2	
R2	96.4	
R3	88.8	
R4	78.8	
R5	84.2	
R6	95.5	
R7	77.6	
R8	55.3	
R9	9.2	
R10	92.2	
R11	79.1	
R12	81.0	
R13	86.9	
R14	94.5	



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

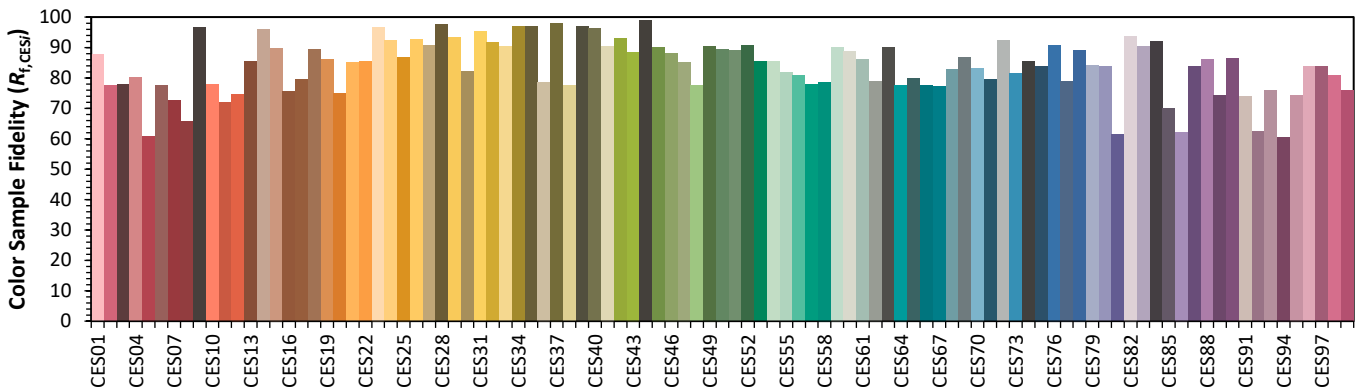
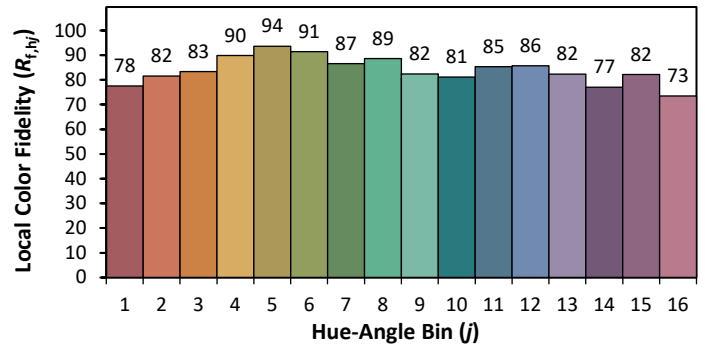
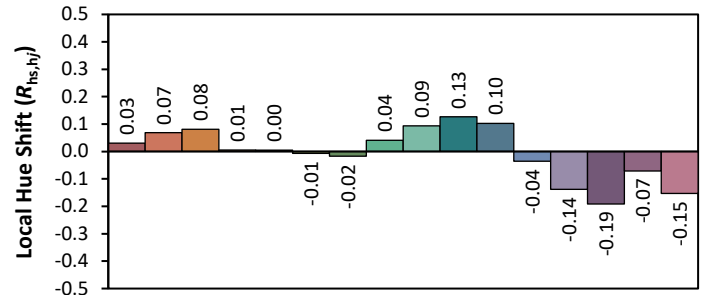
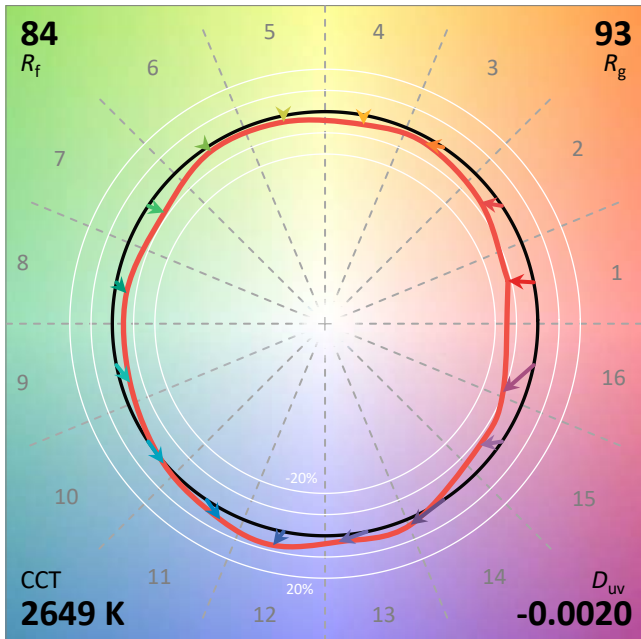
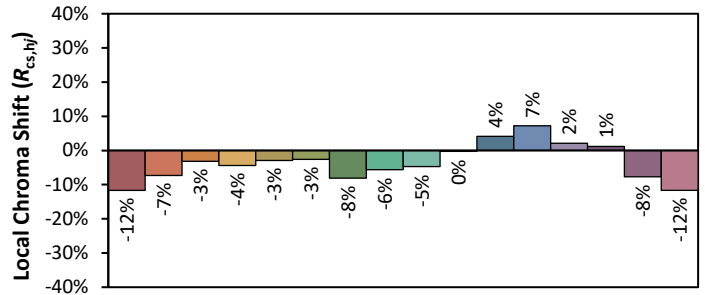
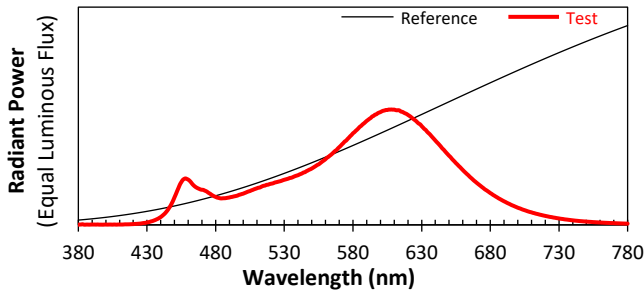
# ANSI/IES TM-30-18 Color Rendition Report

Source: 21.01662

Manufacturer: PROGRESS

Date: 10/27/2021

Model: P560300-192 JAM-PE-19



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

$x$  0.4606  
 $y$  0.4054  
 $u'$  0.2653  
 $v'$  0.5254

CIE 13.3-1995  
(CRI)

$R_a$  83  
 $R_g$  9



®

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701 Millennium Blvd  
Greenville, SC 29607  
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**ISSUE DATE:** 10/14/21

**PREPARED FOR:** PROGRESS

**CATALOG NUMBER:** P560300-192 JAM-PE-19

**LUMINAIRE:** Wall Sconce with Paragon 6W Light Engine w/ 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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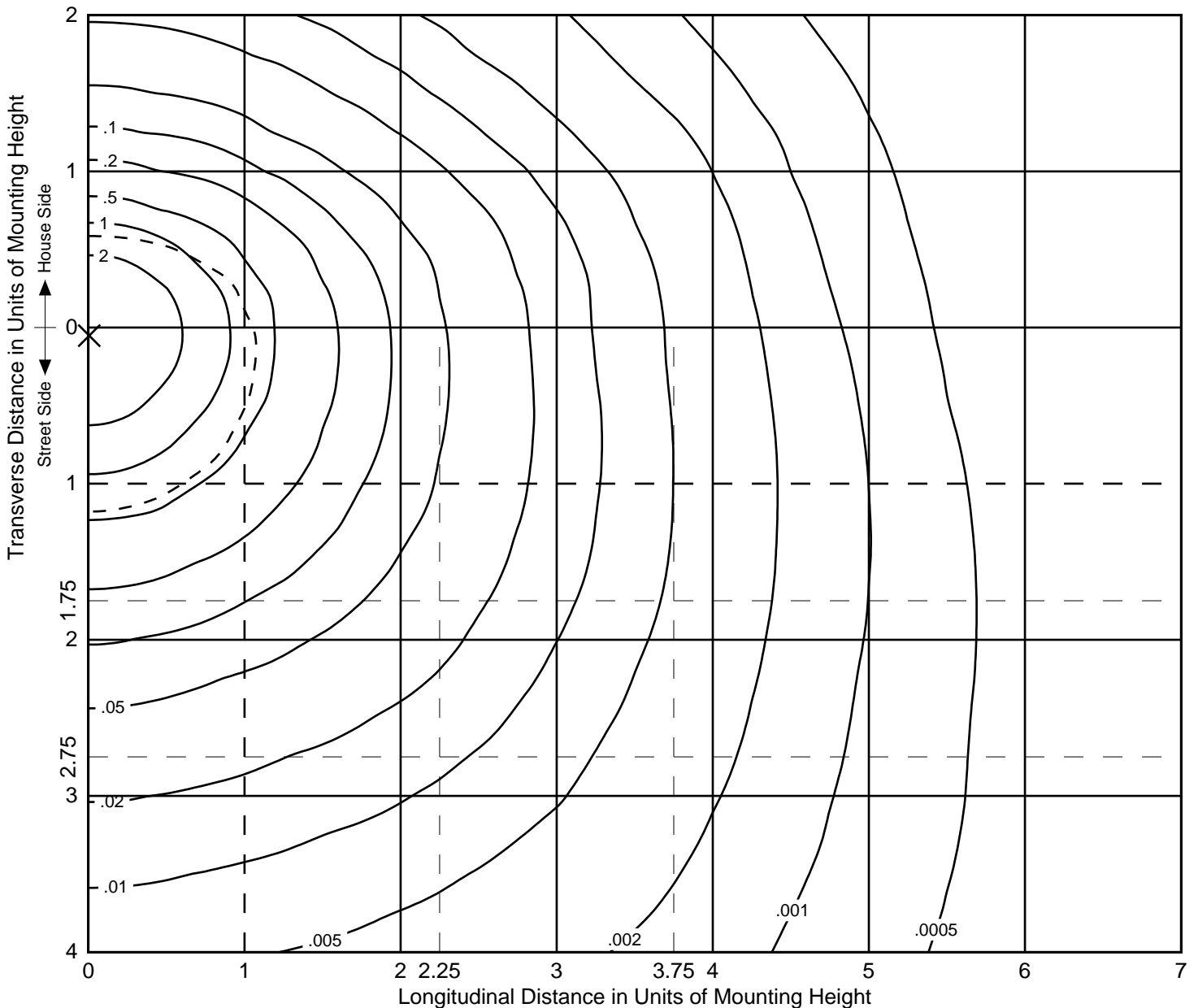
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### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION Values based on 6-foot mounting height

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

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





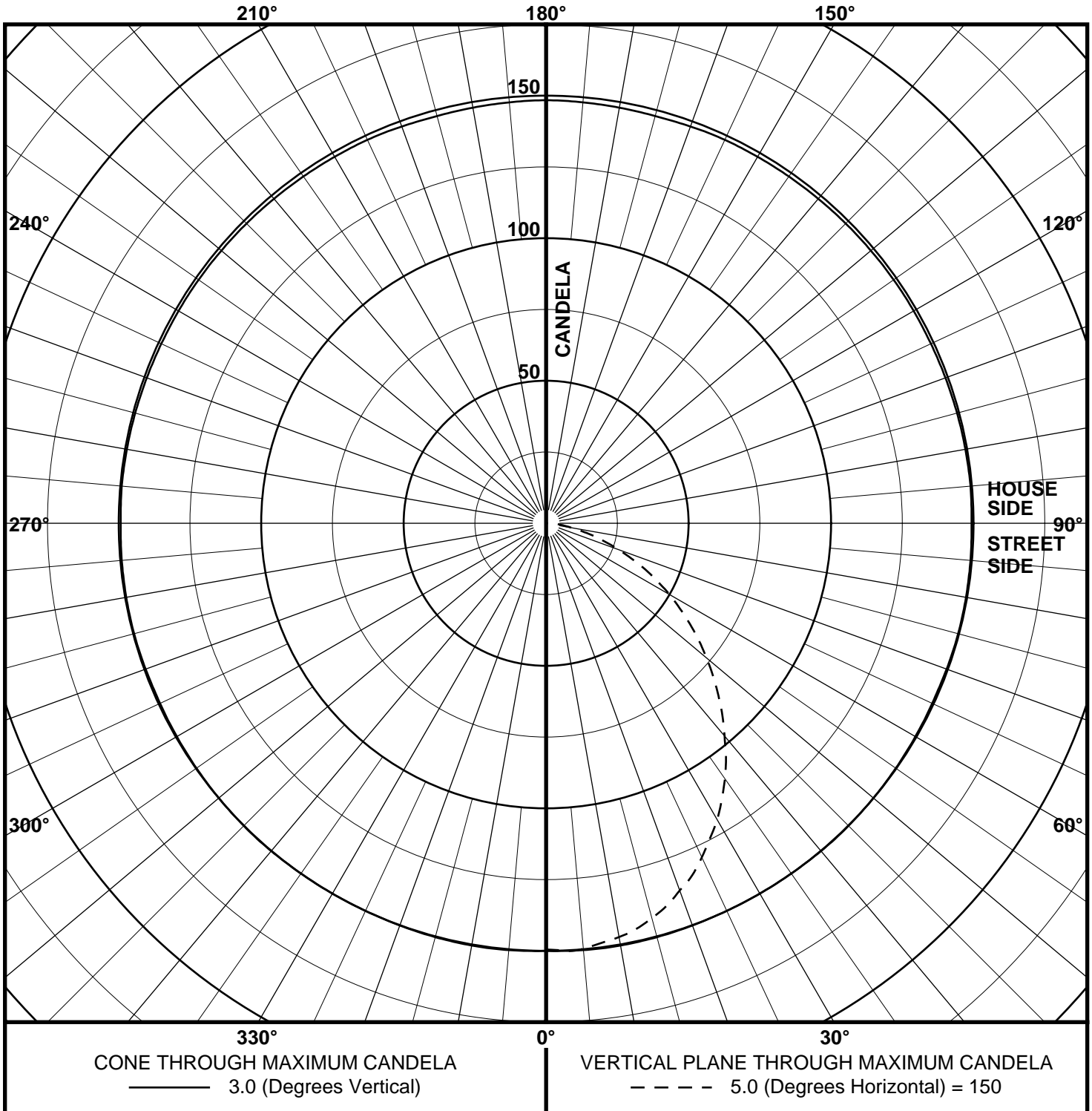
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

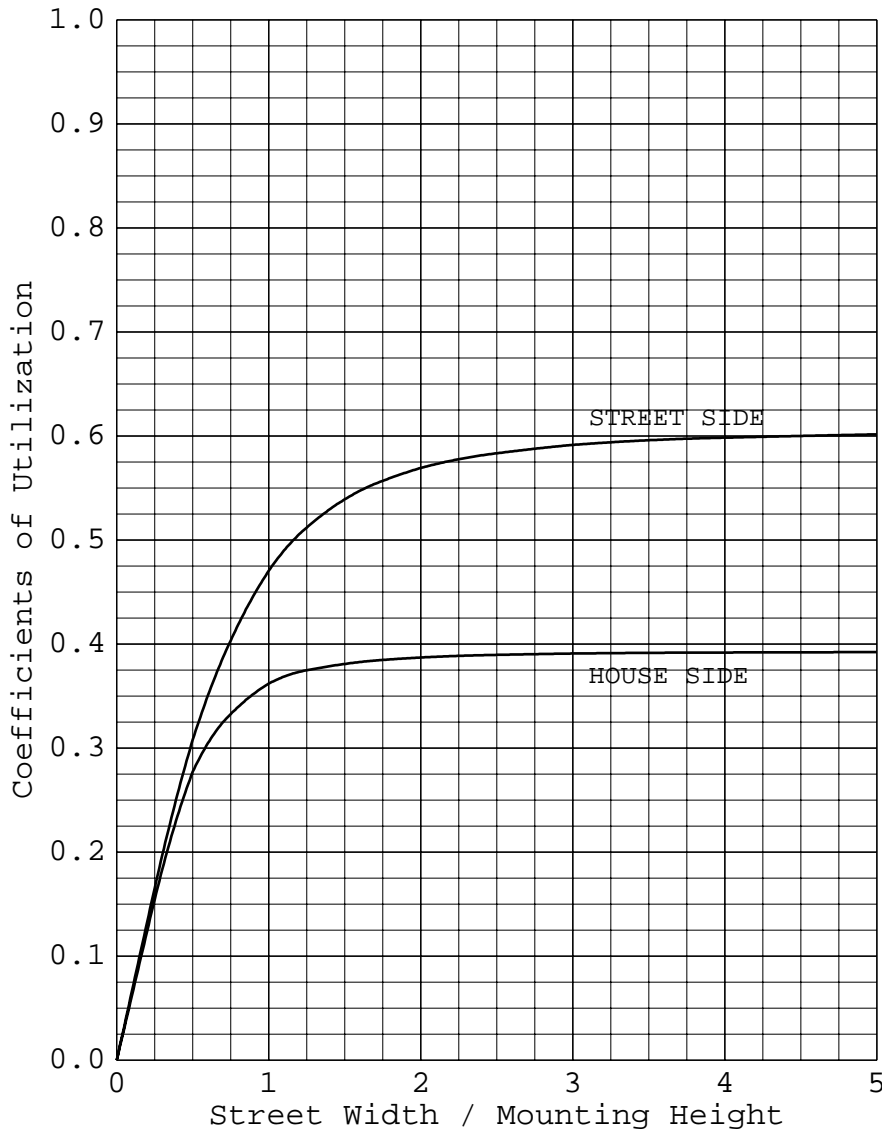




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	178	60.7
DOWNWARD HOUSE SIDE	115	39.3
DOWNWARD TOTAL	294	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	294	100.0

EFFICACY = 47.7 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	U1	G0
			B	U	G
Forward	178	60.7			
FL (0° – 30°)	56.5	19.3			
FM (30° – 60°)	92.6	31.5			
FH (60° – 80°)	27.3	9.3			G0
FVH (80° – 90°)	1.8	0.6			G0
Backward	115	39.3			
BL (0° – 30°)	51.2	17.4	B0		
BM (30° – 60°)	54.8	18.7	B0		
BH (60° – 80°)	9.2	3.1	B0		G0
BVH (80° – 90°)	0.4	0.1			G0
Upward	0	0.0			
UL (90° – 100°)	0.0	0.0		U1	
UH (100° – 180°)	0.0	0.0		U0	
Trapped Light	0	0.0			
Total Flux	294	100.0			





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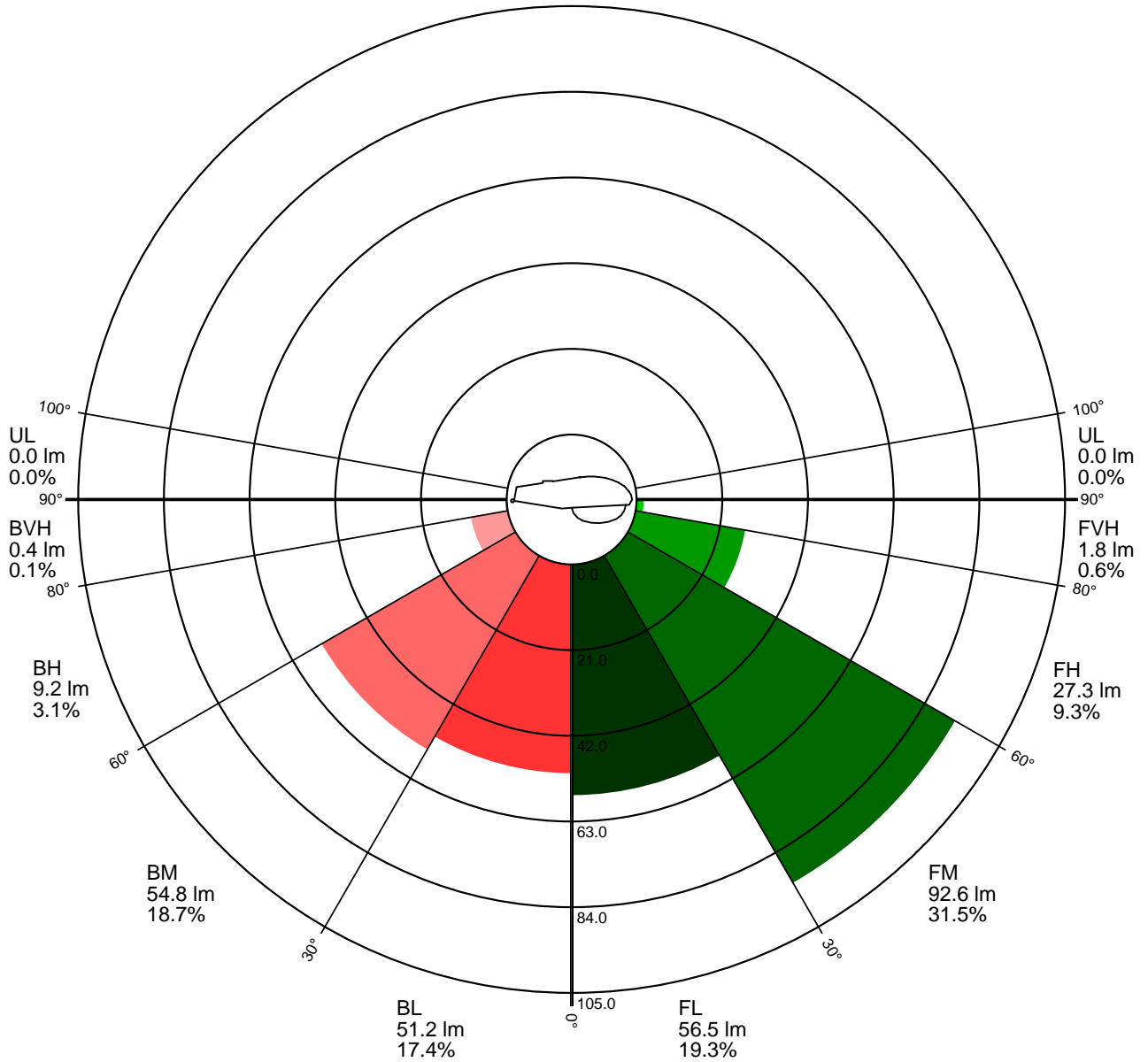
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## Zonal Lumen Summary

(Linear scale)

UH  
0.0 lm  
0.0%





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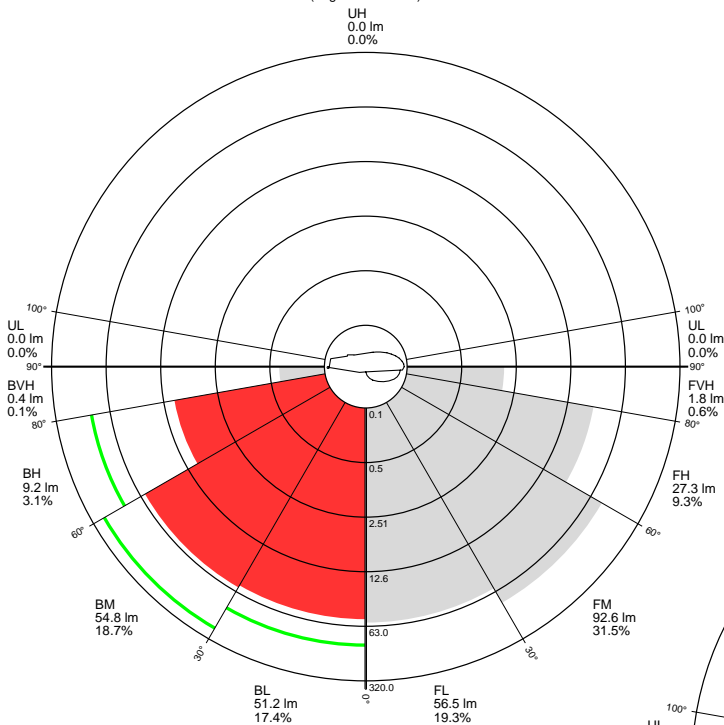
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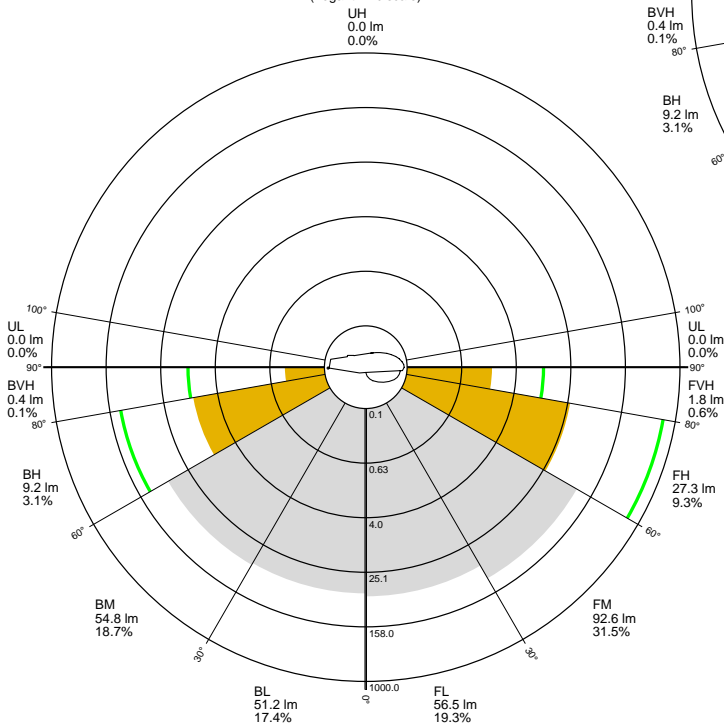
**Backlight Rating Details**

(Logarithmic scale)



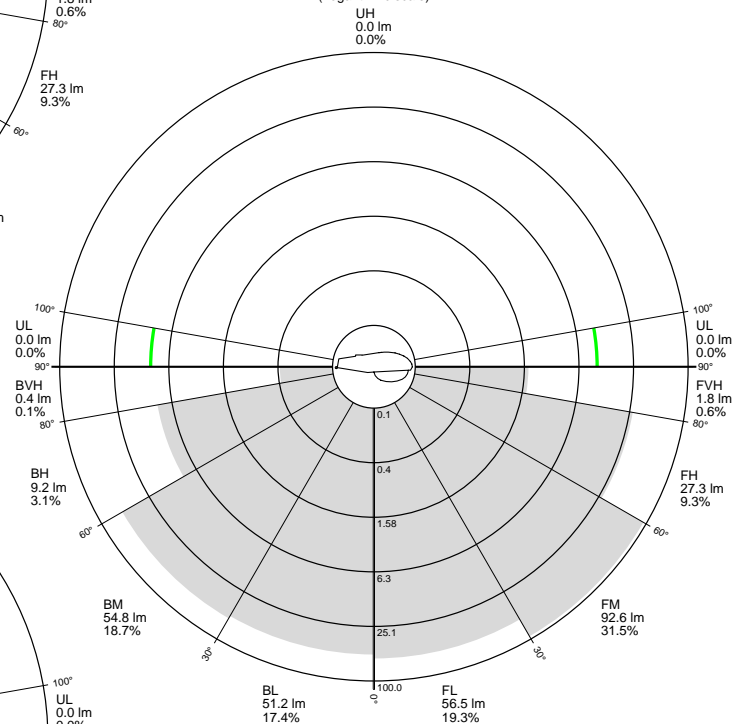
**Glare Rating Details**

(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
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	1.	1.	1.	0.	1.	0.	0.	0.	0.	0.	0.
	87.5	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	0.
	85.0	4.	4.	4.	4.	4.	3.	3.	2.	2.	1.	1.
V	82.5	6.	6.	6.	7.	6.	5.	4.	3.	2.	1.	1.
E	80.0	9.	9.	9.	10.	9.	9.	7.	5.	4.	3.	3.
R	77.5	13.	13.	13.	13.	14.	14.	12.	10.	7.	6.	5.
T	75.0	17.	17.	17.	18.	19.	19.	18.	16.	13.	10.	10.
I	72.5	22.	22.	21.	22.	24.	25.	24.	22.	19.	15.	14.
C	70.0	27.	27.	26.	27.	29.	31.	30.	27.	24.	21.	20.
A	67.5	33.	33.	31.	32.	34.	36.	35.	33.	29.	27.	26.
L	65.0	39.	39.	37.	38.	40.	40.	40.	38.	35.	32.	31.
	62.5	44.	44.	43.	43.	45.	46.	45.	43.	40.	37.	36.
A	60.0	50.	50.	49.	50.	51.	51.	50.	48.	46.	43.	42.
N	57.5	56.	56.	55.	56.	56.	56.	55.	53.	51.	49.	47.
G	55.0	62.	62.	61.	62.	62.	62.	60.	59.	57.	55.	53.
L	52.5	68.	68.	67.	68.	68.	67.	66.	65.	63.	60.	59.
E	50.0	73.	74.	74.	74.	73.	73.	72.	71.	69.	67.	65.
	47.5	79.	80.	79.	79.	79.	79.	78.	77.	75.	73.	71.
	45.0	86.	86.	85.	86.	85.	84.	84.	83.	81.	79.	78.
	42.5	92.	92.	92.	91.	91.	91.	90.	89.	87.	85.	84.
	40.0	97.	97.	97.	97.	97.	97.	95.	95.	93.	92.	90.
	37.5	104.	104.	103.	103.	103.	102.	102.	101.	99.	98.	97.
	35.0	109.	109.	110.	109.	109.	109.	107.	107.	105.	104.	103.
	30.0	120.	120.	120.	120.	120.	119.	118.	118.	116.	115.	115.
	25.0	129.	129.	129.	129.	129.	129.	128.	127.	126.	125.	124.
	20.0	138.	137.	137.	137.	137.	136.	136.	136.	134.	134.	133.
	15.0	144.	143.	143.	143.	143.	143.	143.	142.	141.	141.	140.
	10.0	147.	147.	147.	148.	147.	147.	147.	146.	146.	145.	145.
	5.0	150.	150.	150.	150.	150.	149.	149.	149.	148.	148.	148.
	3.0<<	150.	150.	150.	150.	150.	150.	150.	150.	150.	150.	149.
	0.0	150.	150.	150.	150.	150.	150.	150.	150.	150.	150.	150.

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
180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	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	1.	1.	1.	1.	1.	1.	1.	0.	1.	1.
V 82.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
E 80.0	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
R 77.5	5.	4.	3.	2.	2.	2.	1.	1.	1.	1.
T 75.0	9.	7.	5.	4.	3.	3.	2.	2.	2.	2.
I 72.5	14.	11.	8.	5.	4.	4.	3.	3.	3.	3.
C 70.0	19.	16.	11.	7.	6.	5.	5.	4.	4.	4.
A 67.5	25.	20.	14.	10.	8.	6.	6.	5.	5.	5.
L 65.0	30.	25.	18.	13.	10.	8.	7.	7.	6.	6.
62.5	35.	30.	23.	16.	12.	10.	9.	8.	8.	8.
A 60.0	40.	36.	27.	20.	14.	12.	10.	10.	9.	9.
N 57.5	46.	41.	32.	24.	18.	14.	12.	11.	11.	11.
G 55.0	51.	47.	38.	29.	21.	17.	14.	13.	13.	13.
L 52.5	58.	53.	45.	34.	26.	20.	17.	16.	15.	15.
E 50.0	64.	59.	51.	40.	31.	24.	20.	18.	17.	17.
47.5	70.	66.	58.	47.	37.	29.	24.	22.	20.	20.
45.0	76.	72.	65.	55.	44.	35.	29.	26.	24.	24.
42.5	83.	79.	73.	62.	52.	42.	35.	32.	30.	29.
40.0	89.	86.	79.	70.	60.	50.	43.	38.	36.	36.
37.5	95.	92.	87.	79.	68.	59.	51.	46.	44.	44.
35.0	102.	99.	94.	87.	78.	69.	61.	56.	53.	52.
30.0	113.	112.	108.	102.	95.	88.	81.	76.	74.	74.
25.0	124.	122.	120.	116.	111.	107.	102.	98.	96.	96.
20.0	133.	132.	130.	128.	125.	122.	119.	117.	116.	116.
15.0	140.	139.	138.	137.	135.	134.	132.	131.	130.	131.
10.0	145.	145.	144.	143.	142.	142.	141.	141.	140.	140.
5.0	148.	148.	148.	147.	147.	147.	147.	146.	146.	147.
3.0<<	150.	149.	149.	149.	149.	149.	148.	148.	148.	148.
0.0	150.	150.	150.	150.	150.	150.	150.	150.	150.	150.

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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	10
10- 15	17
15- 20	22
20- 25	26
25- 30	29
30- 35	29
35- 40	28
40- 45	27
45- 50	24
50- 55	21
55- 60	18
60- 65	14
65- 70	11
70- 75	7
75- 80	4
80- 85	2
85- 90	1
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
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	14
0- 20	53
0- 30	108
0- 40	165
0- 50	216
0- 60	255
0- 70	280
0- 80	291
0- 90	294
0-100	294
0-110	294
0-120	294
0-130	294
0-140	294
0-150	294
0-160	294
0-170	294
0-180	294

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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

<b>Test Equipment Used</b>			
<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

<b>Test Equipment Used - Color &amp; SPD</b>			
<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

<b>Test Equipment Used - THD &amp; Power Factor</b>			
<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

## **Hubbell Lighting, Inc.**

701 Millennium Boulevard  
Greenville, SC 29607  
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*This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.*

End of Report