

Project Number  
17.03085



**HUBBELL**  
Lighting

Date  
12/7/2017

Lab 6  
Sphere

*Test Sample Description*

Catalog Number: P560107-129-30  
Description: Medium, Single Module LED Wall Lantern

**Photometry**

Test Method: IES LM-31-95  
IES LM-79-08 § 10

Preburn Time: 1:00  
Time To Stabilize: 1:10  
Total Operating Time: 3:55

Input Voltage (Volts): 120.1  
Input Current (Amps): 0.079  
Input Wattage (Watts): 9.4  
Ambient Temp (°C): 24.2

**Sphere**

Test Method: IES LM-16-93  
IES LM-79-08 § 9.1 & 12.1

Preburn Time: 8:00  
Time To Stabilize: 1:12  
Total Operating Time: 9:12

Input Voltage (Volts): 120.0  
Input Current (Amps): 0.079  
Input Wattage (Watts): 9.4  
Ambient Temp (°C): 24.0  
PF @ 120V: 0.991  
THD @ 120V (%): 12.4



**Hubbell Lighting, Inc.**

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

Checked (sphere): B.LEE  
Checked (photometry): M.ELLMANN  
Approved: P. McCARTHY

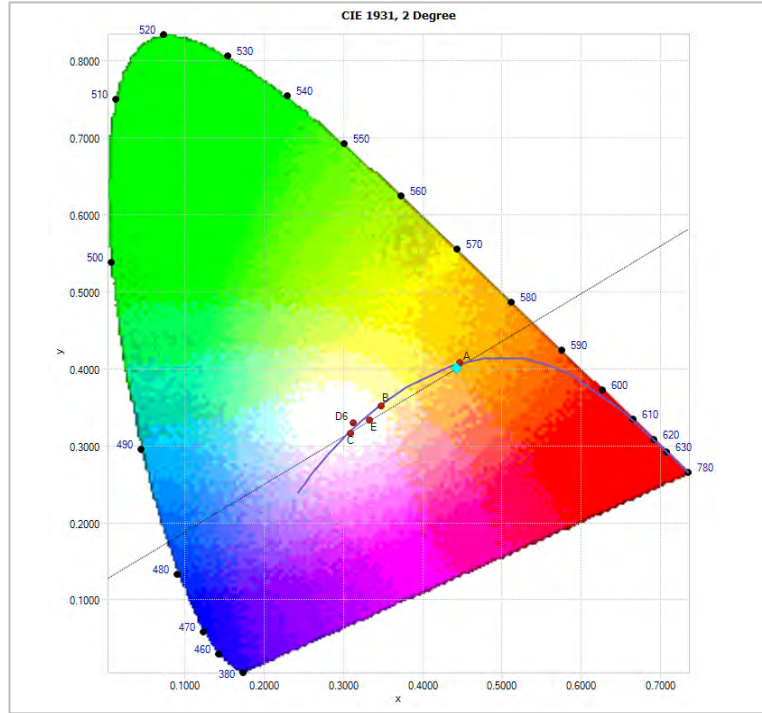




Lamp Cat#: 93070270-3330  
Lamp Desc: 20 - 3000K LEDs

Efficacy: 32.2 LPW      S/P Ratio: 1.4 LM/LM

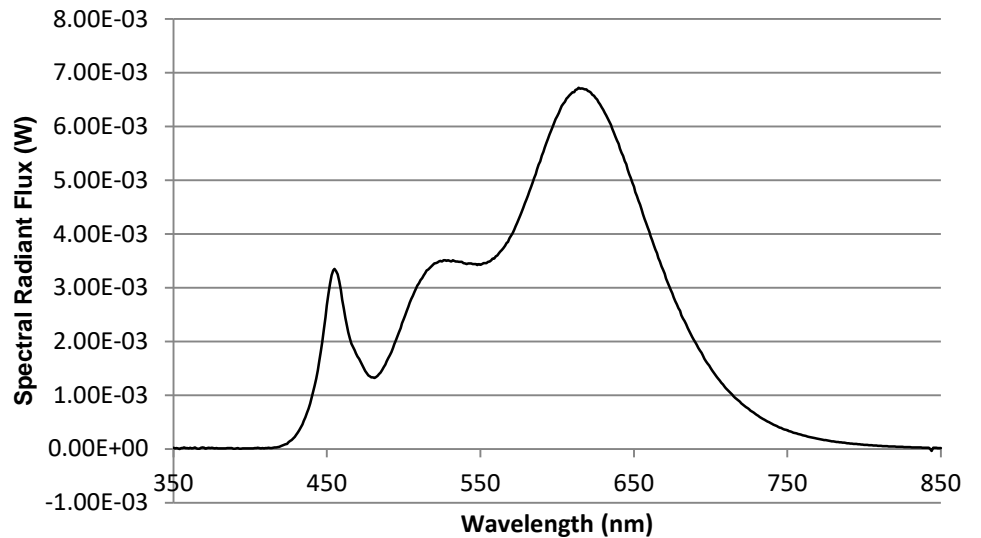
**Chromaticity Diagram**



**Spectral Results**

Name	Value	Unit
Φ	1.03	watts
Φ(v)	303	lumens
Φ(v')	436	lm'
Chrom x	0.4429	
Chrom y	0.401	
Chrom u	0.2558	
Chrom v	0.3474	
Duv	0.0024	
Chrom u'	0.2558	
Chrom v'	0.5211	
CCT	2875	K
Purity	53.3	%
λ (dom)	584.1	nm
FWHM	152.2	nm
λ (peak)	614.9	nm
λ (center)	592.5	nm
λ (centroid)	590.7	nm
SDCM	Cool White	
RA	94	
Corr. Coef.	0.001981927	
Correlation	0.0054	
R1	98.5	
R2	98.2	
R3	95.6	
R4	99.2	
R5	99.0	
R6	92.0	
R7	89.4	
R8	80.5	
R9	58.9	
R10	96.4	
R11	93.0	
R12	86.4	
R13	98.9	
R14	98.4	

**Spectral Distribution of Radiant Flux**



*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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**PREPARED FOR:** PROGRESS

**CATALOG NUMBER:** P560107-129-30

**LUMINAIRE:** Medium, Single Module LED Wall Lantern

**LAMP:** 20- 3000K LED

**MOUNTING:** Wall

**REFRACTOR:** Clear, Seeded

**NOTE:** DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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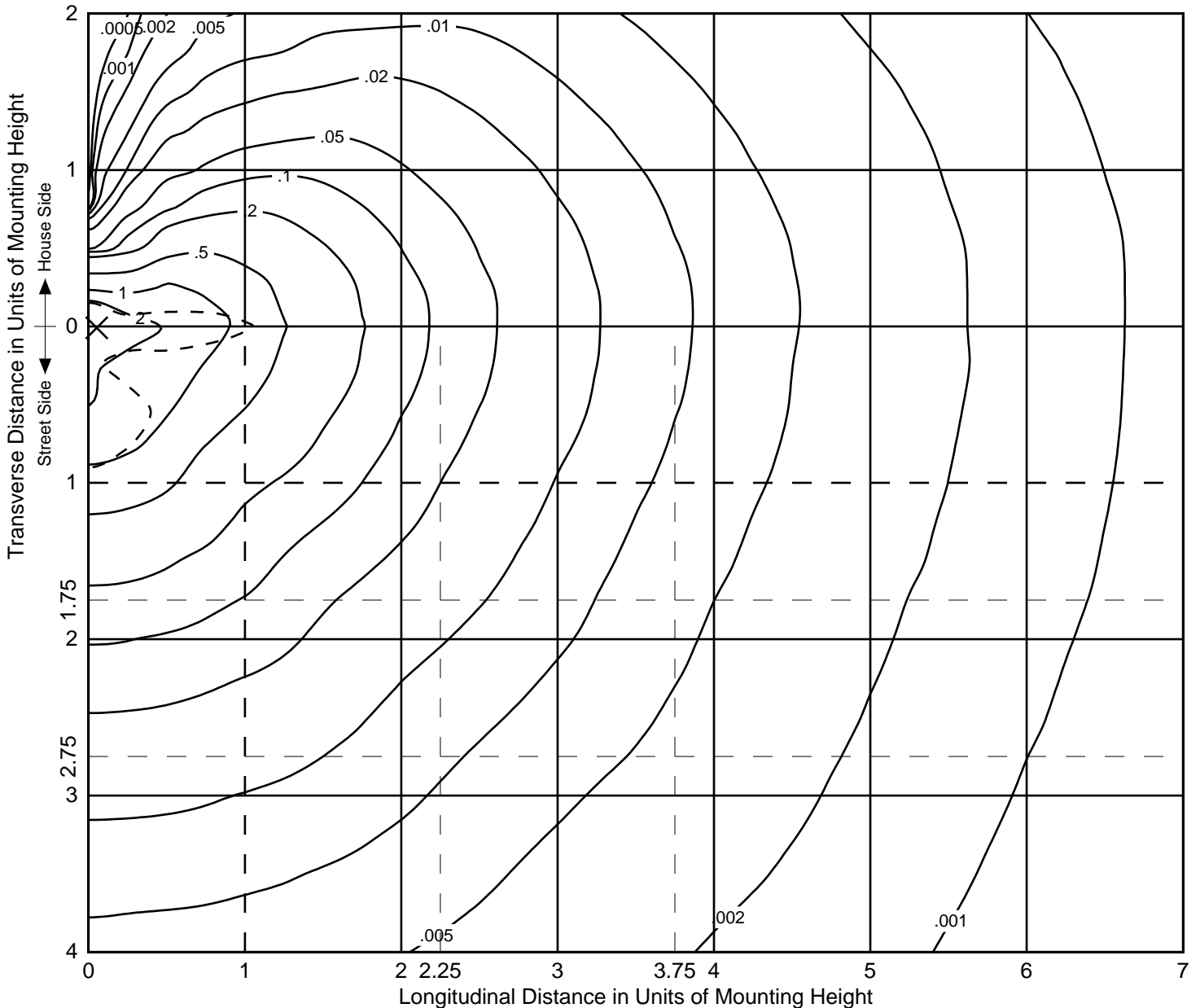
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**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION**  
Values based on 6.5-foot mounting height

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

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





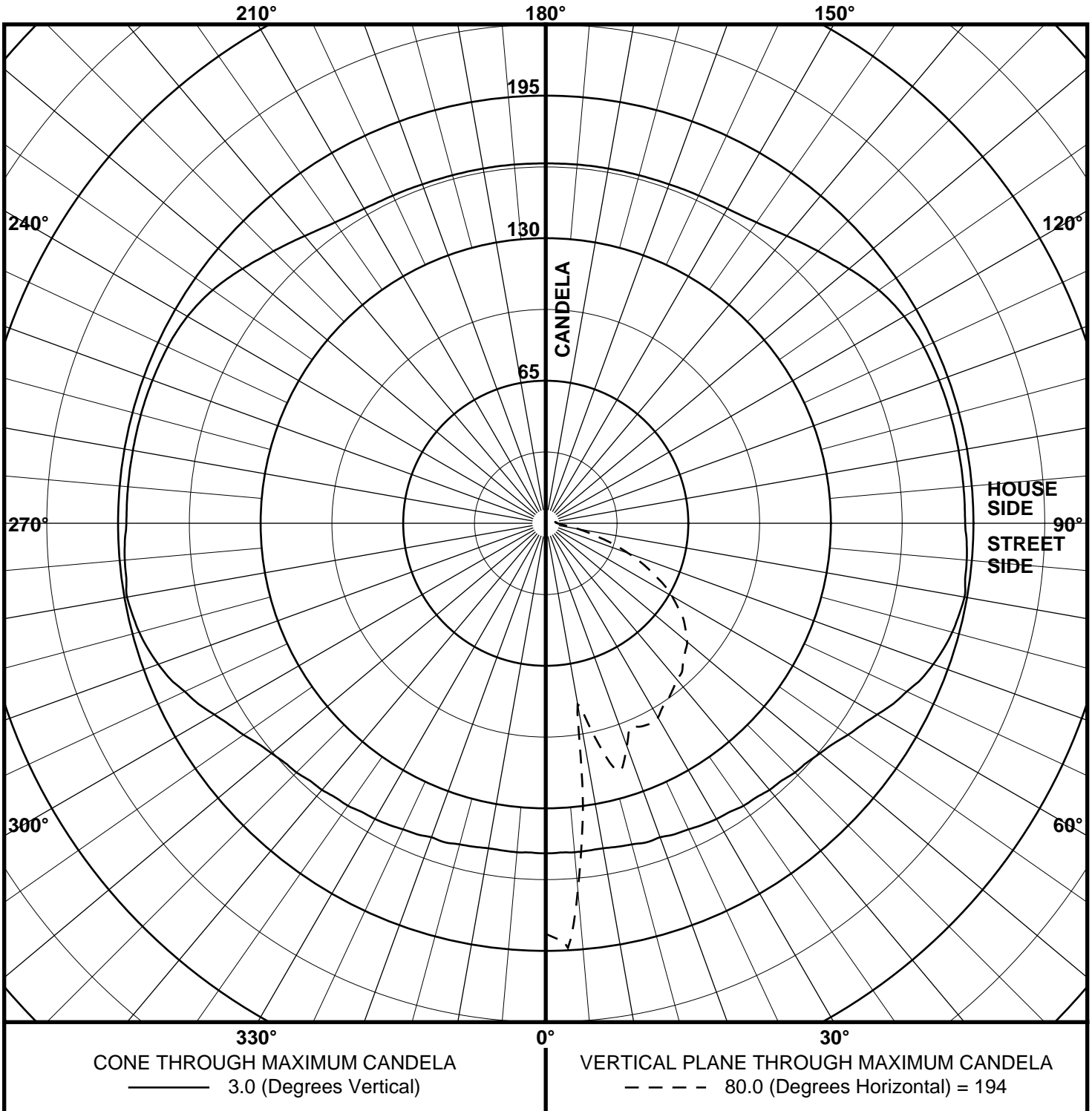
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





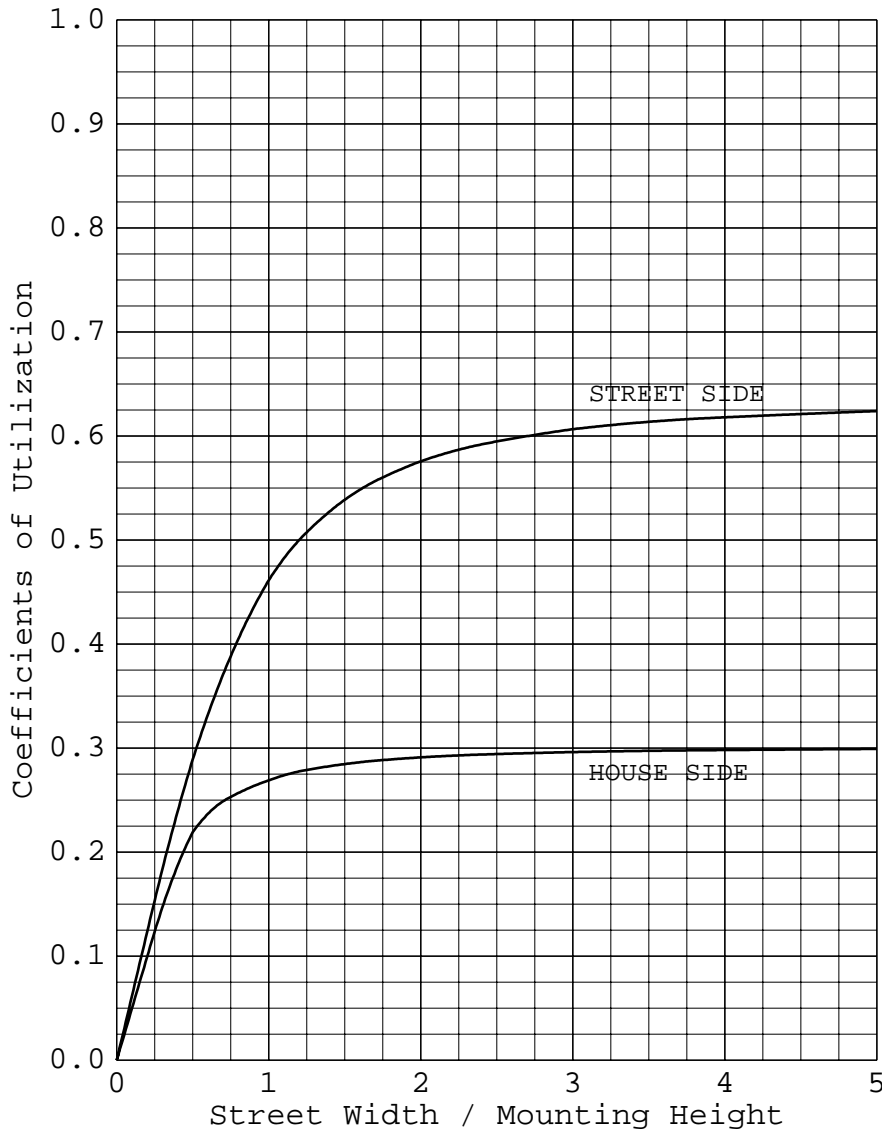
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	173	64.0
DOWNWARD HOUSE SIDE	82	30.3
DOWNWARD TOTAL	255	94.3
UPWARD STREET SIDE	11	4.0
UPWARD HOUSE SIDE	5	1.7
UPWARD TOTAL	15	5.7
TOTAL FLUX	271	100.0
EFFICACY = 28.9 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	173	64.0			
FL (0° – 30°)	41.9	15.5			
FM (30° – 60°)	90.0	33.2			
FH (60° – 80°)	35.7	13.2			G0
FVH (80° – 90°)	5.8	2.1			G0
Backward	82	30.3			
BL (0° – 30°)	25.0	9.2	B0		
BM (30° – 60°)	38.9	14.3	B0		
BH (60° – 80°)	16.0	5.9	B0		G0
BVH (80° – 90°)	2.2	0.8			G0
Upward	15	5.7			
UL (90° – 100°)	4.9	1.8		U1	
UH (100° – 180°)	10.5	3.9		U2	
Trapped Light	0	0.0			
Total Flux	271	100.0			



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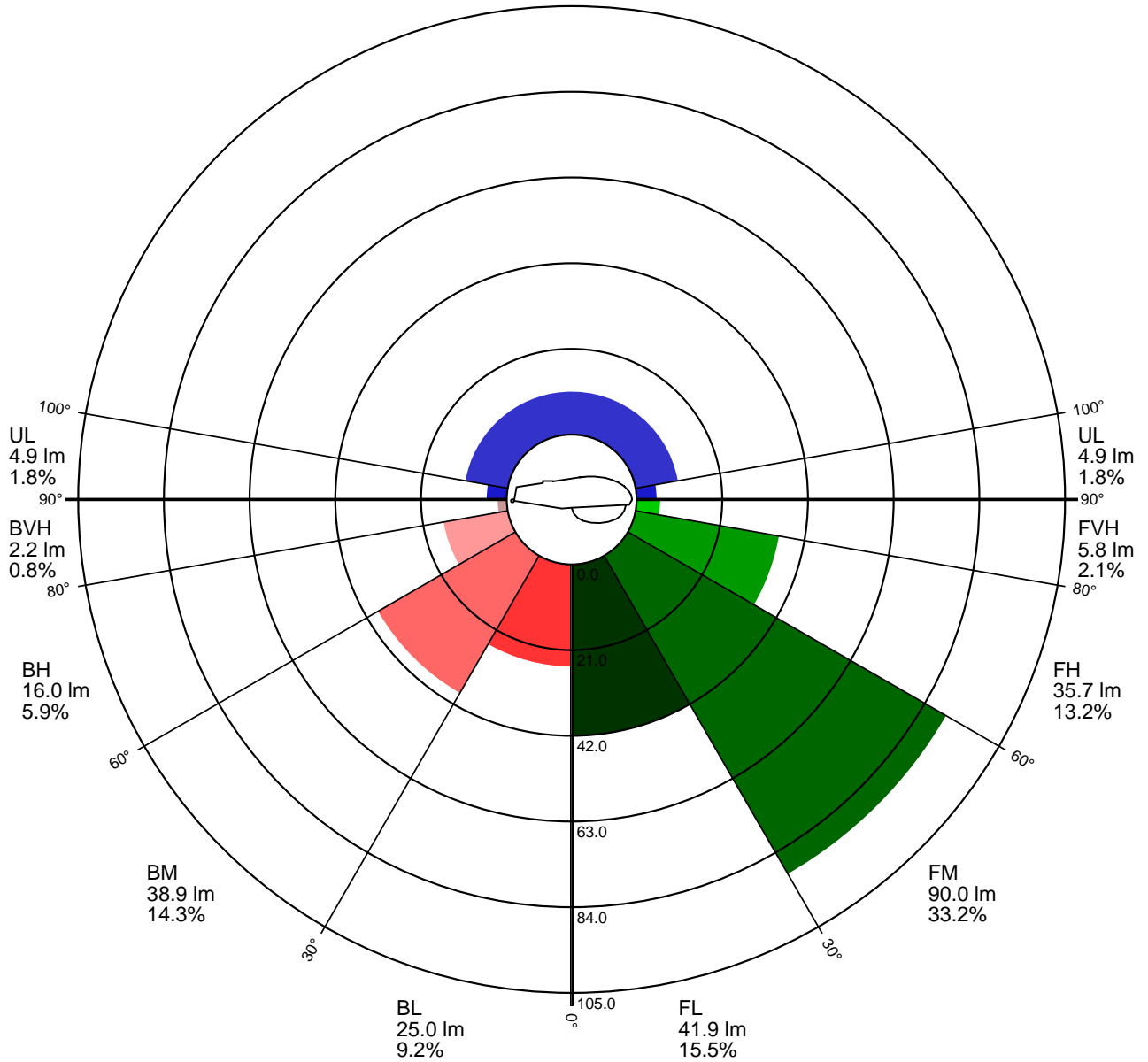
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## Zonal Lumen Summary

(Linear scale)

UH  
10.5 lm  
3.9%





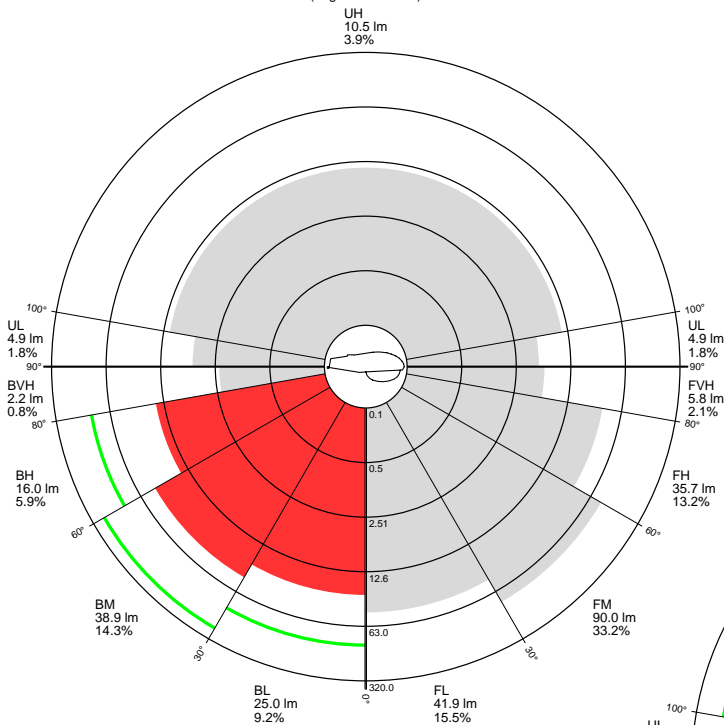


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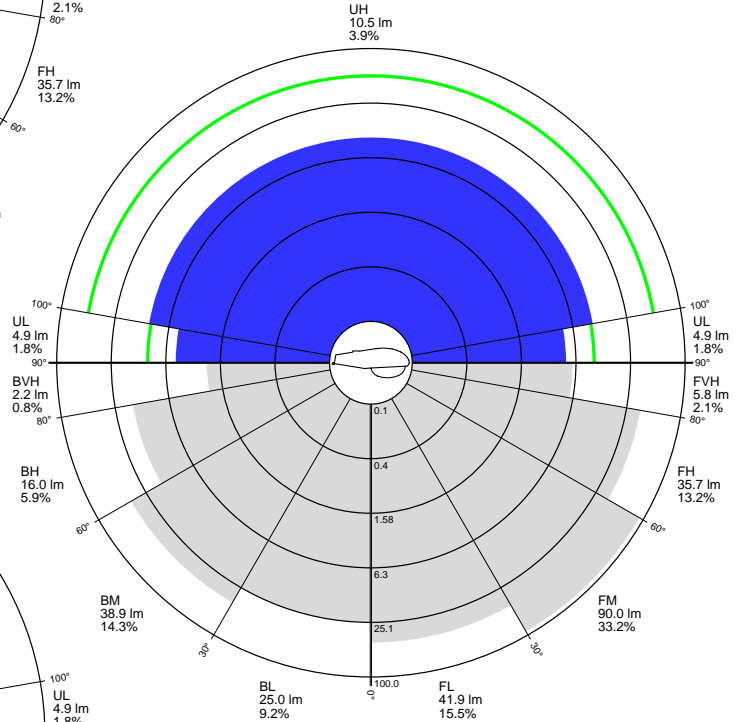
**Backlight Rating Details**

(Logarithmic scale)



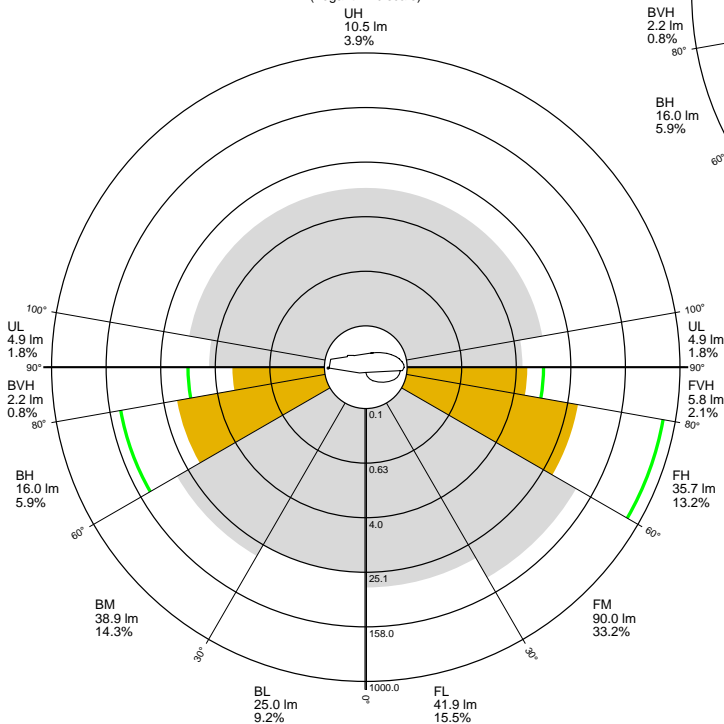
**Uplight Rating Details**

(Logarithmic scale)



**Glare Rating Details**

(Logarithmic scale)





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CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	1.	1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
	135.0	2.	2.	1.	2.	2.	2.	2.	2.	2.	2.	2.
	125.0	2.	2.	2.	2.	3.	3.	3.	3.	3.	3.	3.
	115.0	3.	3.	3.	3.	3.	4.	4.	4.	4.	4.	4.
	105.0	4.	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.
	95.0	7.	7.	7.	7.	8.	8.	8.	8.	8.	8.	8.
	92.5	8.	8.	8.	8.	9.	9.	9.	9.	9.	9.	9.
	90.0	9.	9.	9.	9.	10.	10.	10.	10.	10.	10.	9.
	87.5	10.	10.	10.	10.	11.	10.	11.	11.	11.	10.	10.
	85.0	11.	11.	11.	12.	12.	12.	12.	12.	12.	12.	11.
V	82.5	13.	13.	13.	13.	14.	14.	14.	13.	14.	13.	13.
E	80.0	16.	16.	17.	17.	17.	17.	17.	17.	17.	17.	17.
R	77.5	21.	21.	21.	21.	21.	21.	21.	21.	21.	21.	21.
T	75.0	26.	25.	25.	25.	25.	25.	25.	25.	25.	25.	25.
I	72.5	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.	30.
C	70.0	35.	35.	35.	36.	36.	35.	35.	35.	35.	35.	35.
A	67.5	41.	41.	41.	41.	40.	40.	40.	40.	40.	40.	40.
L	65.0	46.	46.	46.	46.	46.	45.	45.	45.	45.	45.	44.
	62.5	52.	51.	52.	51.	51.	51.	50.	50.	49.	49.	49.
A	60.0	57.	57.	57.	57.	57.	56.	56.	54.	54.	53.	52.
N	57.5	62.	62.	62.	62.	62.	62.	61.	60.	59.	58.	57.
G	55.0	68.	68.	68.	68.	68.	67.	66.	65.	64.	64.	62.
L	52.5	73.	73.	73.	73.	73.	72.	71.	70.	69.	69.	68.
E	50.0	79.	79.	79.	79.	78.	77.	77.	75.	75.	74.	74.
	47.5	85.	85.	84.	84.	84.	82.	82.	80.	80.	80.	80.
	45.0	90.	90.	90.	89.	88.	87.	86.	85.	84.	85.	85.
	42.5	95.	95.	94.	94.	93.	92.	91.	90.	89.	90.	91.
	40.0	100.	100.	99.	99.	97.	97.	96.	95.	94.	95.	96.
	37.5	105.	104.	104.	103.	102.	101.	100.	99.	99.	99.	99.
	35.0	109.	109.	109.	108.	107.	105.	104.	104.	103.	104.	103.
	30.0	117.	117.	116.	115.	114.	113.	112.	112.	112.	111.	110.
	25.0	119.	119.	118.	117.	116.	115.	114.	112.	110.	109.	107.
	20.0	114.	114.	113.	113.	113.	111.	109.	107.	105.	104.	102.
	15.0	103.	103.	103.	102.	102.	102.	101.	101.	99.	96.	94.
	10.0	107.	107.	107.	107.	107.	107.	107.	107.	106.	105.	102.
	5.0	122.	122.	123.	123.	123.	124.	125.	126.	127.	129.	130.
	3.0<<	151.	150.	151.	151.	151.	151.	152.	153.	152.	154.	154.
	0.0	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.

CONE OF MAXIMUM CANDELA

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CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5
180.0	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.	0.
165.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
145.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
135.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
125.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
115.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
105.0	6.	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.
95.0	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.	7.	7.
92.5	8.	8.	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.
90.0	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.	8.
87.5	10.	10.	10.	10.	9.	9.	9.	9.	9.	9.	9.	9.
85.0	11.	11.	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.
V 82.5	13.	13.	13.	13.	13.	13.	12.	12.	12.	12.	12.	12.
E 80.0	17.	17.	16.	16.	16.	16.	15.	15.	15.	15.	15.	15.
R 77.5	21.	20.	20.	20.	19.	19.	19.	18.	18.	19.	19.	19.
T 75.0	25.	25.	24.	24.	23.	22.	22.	22.	22.	22.	23.	23.
I 72.5	30.	30.	29.	28.	27.	26.	26.	26.	26.	27.	27.	27.
C 70.0	35.	34.	34.	33.	32.	31.	30.	30.	31.	32.	32.	32.
A 67.5	40.	40.	39.	37.	36.	35.	35.	34.	35.	37.	37.	37.
L 65.0	44.	44.	43.	42.	40.	39.	39.	39.	40.	41.	42.	42.
62.5	49.	48.	48.	46.	44.	43.	43.	43.	44.	45.	46.	46.
A 60.0	52.	51.	51.	49.	47.	46.	45.	46.	47.	49.	50.	50.
N 57.5	56.	55.	53.	52.	49.	48.	48.	49.	51.	52.	54.	54.
G 55.0	62.	61.	59.	56.	53.	51.	51.	52.	54.	56.	57.	57.
L 52.5	68.	66.	64.	62.	58.	56.	55.	56.	57.	59.	61.	61.
E 50.0	74.	72.	70.	67.	64.	61.	59.	60.	61.	63.	65.	65.
47.5	80.	78.	76.	73.	69.	66.	65.	65.	66.	68.	69.	69.
45.0	85.	84.	81.	78.	74.	71.	69.	69.	70.	72.	73.	73.
42.5	90.	89.	87.	83.	78.	74.	72.	72.	73.	75.	76.	76.
40.0	95.	94.	91.	88.	82.	78.	76.	75.	76.	77.	78.	78.
37.5	99.	98.	96.	92.	87.	83.	81.	80.	79.	80.	81.	81.
35.0	103.	102.	100.	96.	91.	87.	85.	84.	83.	83.	84.	84.
30.0	109.	107.	104.	99.	94.	91.	88.	86.	85.	85.	85.	85.
25.0	106.	103.	100.	97.	93.	89.	88.	86.	86.	85.	84.	84.
20.0	99.	97.	94.	90.	86.	83.	82.	82.	82.	83.	83.	83.
15.0	92.	90.	87.	82.	78.	73.	70.	69.	70.	71.	73.	73.
10.0	99.	94.	89.	84.	79.	76.	74.	73.	73.	74.	75.	75.
5.0	132.	133.	135.	138.	139.	142.	143.	146.	147.	149.	149.	149.
3.0<<	155.	156.	156.	157.	158.	159.	159.	161.	162.	163.	165.	165.
0.0	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.

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	LATERAL ANGLE											
	STREET SIDE	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5	75.0	77.5	80.0
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
	135.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	125.0	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.
	115.0	4.	4.	4.	4.	3.	3.	3.	3.	3.	3.	3.
	105.0	5.	5.	5.	5.	5.	4.	4.	4.	4.	4.	4.
	95.0	7.	7.	6.	6.	6.	6.	6.	5.	5.	5.	5.
	92.5	7.	7.	7.	6.	6.	6.	6.	6.	5.	5.	5.
	90.0	8.	7.	7.	7.	7.	7.	6.	6.	6.	6.	5.
	87.5	8.	8.	8.	8.	7.	7.	7.	7.	7.	6.	6.
	85.0	10.	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.
V	82.5	12.	12.	12.	11.	11.	11.	11.	11.	11.	11.	11.
E	80.0	15.	15.	15.	15.	15.	15.	14.	15.	15.	15.	15.
R	77.5	19.	19.	19.	18.	18.	18.	19.	19.	19.	20.	20.
T	75.0	23.	23.	23.	23.	23.	23.	23.	24.	24.	25.	26.
I	72.5	28.	28.	28.	28.	29.	29.	29.	30.	31.	32.	33.
C	70.0	33.	34.	34.	34.	35.	35.	36.	36.	38.	40.	40.
A	67.5	38.	39.	40.	40.	40.	41.	41.	42.	45.	46.	47.
L	65.0	43.	45.	45.	46.	46.	47.	48.	49.	51.	53.	54.
	62.5	48.	49.	50.	51.	52.	53.	53.	55.	57.	59.	61.
A	60.0	52.	54.	55.	55.	57.	58.	58.	60.	63.	64.	67.
N	57.5	56.	58.	59.	60.	62.	62.	63.	65.	68.	69.	72.
G	55.0	59.	61.	63.	64.	66.	66.	67.	69.	71.	73.	77.
L	52.5	64.	65.	66.	67.	68.	70.	70.	72.	74.	76.	80.
E	50.0	68.	70.	70.	71.	71.	72.	73.	75.	78.	80.	84.
	47.5	72.	74.	74.	75.	74.	75.	76.	78.	80.	82.	86.
	45.0	75.	77.	78.	78.	77.	77.	78.	80.	82.	84.	89.
	42.5	77.	79.	79.	78.	79.	80.	81.	82.	84.	88.	92.
	40.0	79.	80.	79.	79.	79.	81.	83.	84.	86.	89.	93.
	37.5	81.	82.	81.	81.	80.	82.	84.	86.	88.	92.	95.
	35.0	84.	84.	84.	83.	83.	83.	85.	87.	90.	93.	98.
	30.0	85.	86.	86.	86.	86.	87.	89.	91.	94.	98.	102.
	25.0	85.	85.	85.	85.	85.	85.	88.	91.	94.	98.	102.
	20.0	84.	85.	86.	87.	87.	87.	89.	94.	98.	103.	108.
	15.0	74.	75.	76.	77.	81.	87.	92.	96.	102.	107.	113.
	10.0	76.	75.	74.	74.	78.	78.	81.	82.	83.	84.	84.
	5.0	150.	149.	149.	150.	148.	150.	153.	155.	161.	164.	168.
	3.0<<	168.	171.	175.	179.	182.	185.	188.	190.	192.	193.	194.
	0.0	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

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**HUBBELL**  
Lighting

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

REPORT NUMBER: 17.03085

PAGE: 13 OF 16

ISSUE DATE: 12/07/17

PREPARED FOR: PROGRESS

CATALOG NUMBER: P560107-129-30

CANDELA TABULATION

LATERAL ANGLE

	82.5	85.0	87.5	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0
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	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.
145.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
135.0	2.	2.	1.	2.	2.	2.	2.	2.	1.	1.	1.
125.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.
115.0	3.	3.	2.	2.	2.	3.	2.	2.	2.	1.	1.
105.0	4.	3.	3.	3.	3.	3.	3.	3.	2.	2.	1.
95.0	4.	4.	4.	4.	4.	4.	4.	3.	3.	2.	2.
92.5	5.	4.	4.	4.	4.	4.	4.	3.	3.	2.	2.
90.0	5.	5.	5.	5.	5.	5.	4.	4.	3.	2.	2.
87.5	6.	6.	5.	5.	5.	6.	5.	4.	3.	2.	2.
85.0	8.	7.	7.	7.	7.	7.	6.	5.	4.	3.	2.
V 82.5	11.	11.	10.	11.	11.	10.	8.	6.	4.	3.	2.
E 80.0	15.	15.	16.	15.	16.	14.	11.	8.	5.	3.	2.
R 77.5	21.	21.	21.	21.	22.	18.	14.	11.	6.	4.	2.
T 75.0	27.	27.	28.	28.	28.	23.	18.	13.	7.	4.	2.
I 72.5	34.	35.	36.	35.	35.	29.	22.	16.	8.	4.	3.
C 70.0	42.	42.	43.	43.	42.	36.	26.	19.	9.	5.	3.
A 67.5	49.	49.	51.	50.	50.	42.	32.	22.	11.	5.	3.
L 65.0	55.	57.	58.	59.	57.	48.	36.	25.	12.	5.	3.
62.5	63.	64.	65.	65.	64.	54.	41.	28.	12.	6.	3.
A 60.0	69.	71.	71.	72.	70.	59.	44.	30.	13.	6.	3.
N 57.5	74.	76.	77.	77.	76.	64.	47.	32.	14.	7.	4.
G 55.0	78.	81.	82.	82.	82.	69.	51.	34.	16.	7.	4.
L 52.5	83.	86.	87.	88.	86.	71.	53.	36.	17.	8.	4.
E 50.0	86.	90.	90.	91.	90.	74.	56.	38.	18.	8.	4.
47.5	90.	93.	95.	95.	94.	78.	58.	40.	19.	9.	4.
45.0	93.	96.	98.	98.	97.	80.	60.	42.	20.	9.	5.
42.5	95.	98.	101.	101.	100.	83.	63.	43.	21.	10.	5.
40.0	97.	100.	101.	103.	103.	85.	65.	45.	22.	11.	5.
37.5	100.	103.	104.	105.	105.	86.	65.	46.	24.	12.	5.
35.0	102.	105.	106.	106.	105.	88.	67.	48.	26.	13.	6.
30.0	106.	109.	111.	111.	109.	93.	71.	51.	29.	15.	7.
25.0	106.	108.	109.	109.	108.	93.	73.	53.	34.	18.	8.
20.0	113.	116.	119.	118.	116.	106.	83.	62.	37.	20.	14.
15.0	118.	124.	127.	126.	122.	106.	84.	59.	38.	35.	31.
10.0	87.	90.	91.	92.	91.	85.	85.	83.	72.	71.	85.
5.0	169.	169.	168.	167.	167.	171.	165.	162.	165.	155.	146.
3.0<<	193.	193.	192.	191.	191.	191.	190.	185.	176.	168.	165.
0.0	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.	187.

CONE OF MAXIMUM CANDELA

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**REPORT NUMBER:** 17.03085  
**ISSUE DATE:** 12/07/17  
**PREPARED FOR:** PROGRESS  
**CATALOG NUMBER:** P560107-129-30

**PAGE:** 14 OF 16

CANDELA TABULATION

HOUSE SIDE

LATERAL ANGLE

165.0 175.0 180.0

180.0	0.	0.	0.
175.0	0.	0.	0.
165.0	0.	0.	0.
155.0	0.	0.	0.
145.0	0.	0.	0.
135.0	0.	0.	0.
125.0	0.	0.	0.
115.0	0.	0.	0.
105.0	1.	0.	0.
95.0	1.	0.	0.
92.5	1.	0.	0.
90.0	1.	0.	0.
87.5	1.	0.	0.
85.0	1.	0.	0.
V 82.5	1.	0.	0.
E 80.0	1.	0.	0.
R 77.5	1.	0.	0.
T 75.0	1.	0.	0.
I 72.5	1.	0.	0.
C 70.0	1.	0.	0.
A 67.5	1.	0.	0.
L 65.0	1.	0.	0.
62.5	1.	0.	0.
A 60.0	1.	0.	0.
N 57.5	1.	0.	0.
G 55.0	1.	0.	0.
L 52.5	1.	0.	0.
E 50.0	1.	0.	0.
47.5	2.	0.	0.
45.0	1.	0.	0.
42.5	2.	0.	0.
40.0	2.	0.	0.
37.5	2.	0.	0.
35.0	2.	1.	0.
30.0	3.	1.	1.
25.0	4.	3.	3.
20.0	12.	11.	11.
15.0	31.	26.	26.
10.0	84.	81.	79.
5.0	139.	137.	137.
3.0<<	164.	164.	164.
0.0	187.	187.	187.

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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	4
5-	10	8
10-	15	9
15-	20	12
20-	25	15
25-	30	18
30-	35	20
35-	40	22
40-	45	23
45-	50	22
50-	55	22
55-	60	20
60-	65	18
65-	70	15
70-	75	11
75-	80	8
80-	85	5
85-	90	3
90-	95	3
95-	100	2
100-	105	2
105-	110	2
110-	115	1
115-	120	1
120-	125	1
125-	130	1
130-	135	1
135-	140	1
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	12
0-	20	34
0-	30	67
0-	40	109
0-	50	154
0-	60	196
0-	70	229
0-	80	247
0-	90	255
0-	100	260
0-	110	264
0-	120	267
0-	130	268
0-	140	270
0-	150	270
0-	160	271
0-	170	271
0-	180	271

Project Number  
17.03085



**HUBBELL**  
Lighting

Date  
12/7/2017

### *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:* 09/02/16

### *Test Equipment Used*

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 6 - Test Distance: 31.3'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27076V	10/25/2018
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	10/26/2018

### *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	Calibration Checked Daily
<i>Thermometer</i>	National Instruments / USB TC01	1912751	10/26/2018
<i>LAMP Power Meter</i>	Yokogawa / WT332	C2QA27075V	10/25/2018
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Power Supply PF/THD</i>	Voltage-Regulated House Power	N/A	N/A
<i>Aux Lamp Supply</i>	Labsphere / LPS-100-0833	0331159372	N/A
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	N/A
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	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.*