



Lab 6  
Sphere

*Test Sample Description*

Catalog Number: P560104-03030  
Description: 1-Lt. LED Small White Wall Lantern

*Photometry*

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

Preburn Time: 0:30  
Time To Stabilize: 2:10  
Total Operating Time: 4:00

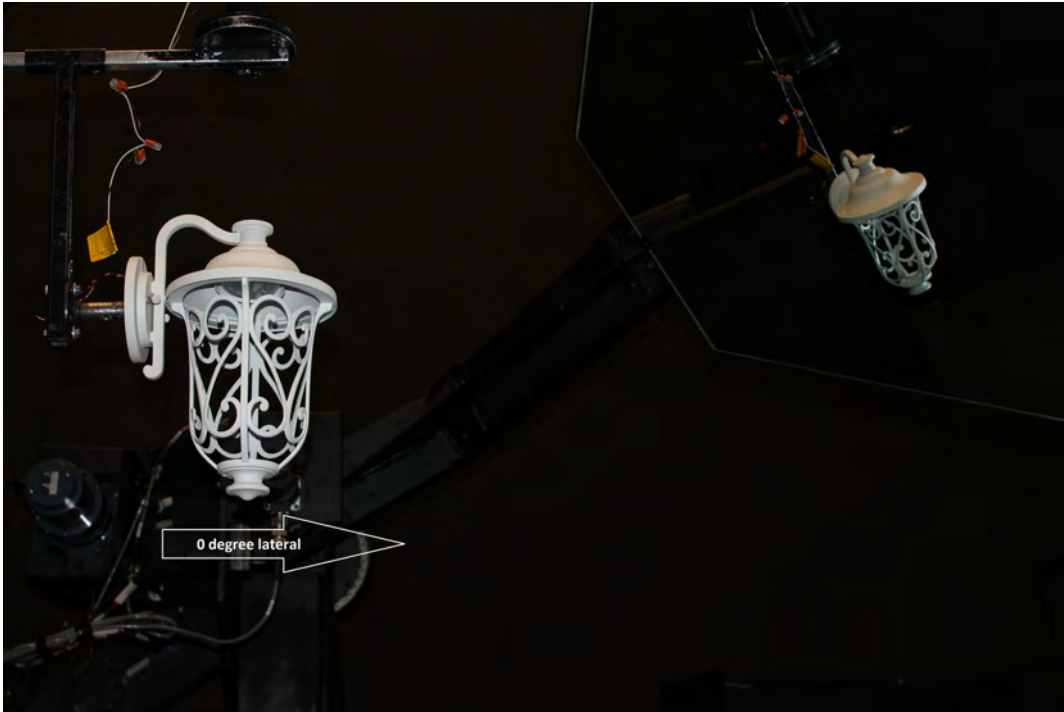
Input Voltage (Volts): 119.9  
Input Current (Amps): 0.078  
Input Wattage (Watts): 9.3  
Ambient Temp (°C): 24.1

*Sphere*

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

Preburn Time: 4:00  
Time To Stabilize: 1:07  
Total Operating Time: 5:07

Input Voltage (Volts): 120.0  
Input Current (Amps): 0.078  
Input Wattage (Watts): 9.2  
Ambient Temp (°C): 24



**Hubbell Lighting, Inc.**

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

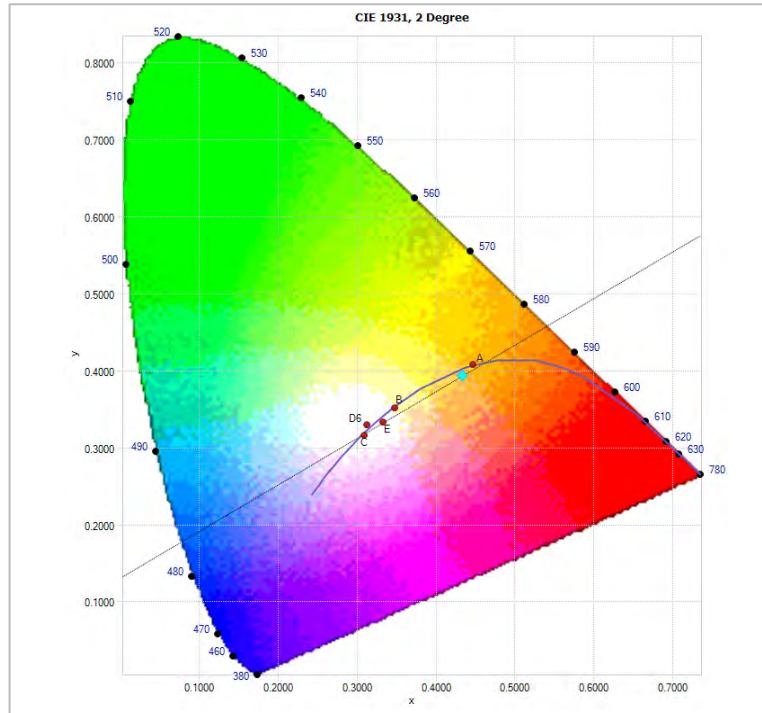




Lamp Cat#: 93070270-3330  
 Lamp Desc: 20 - 3000K LEDs  
 Driver Desc:

Efficacy: 42.8 LPW      S/P Ratio: 1.5 LM/LM

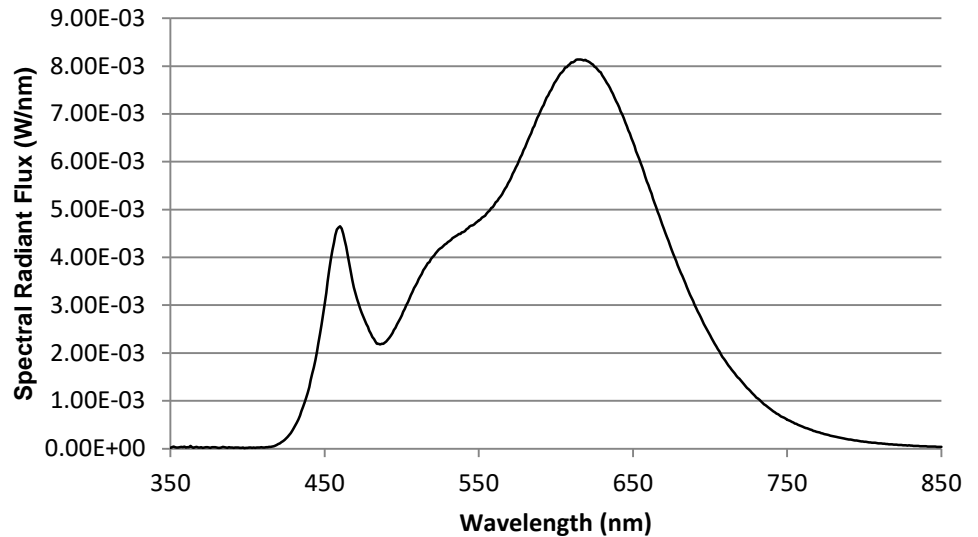
**Chromaticity Diagram**



**Spectral Results**

Name	Value	Unit
Φ	1.38	watts
Φ(v)	394	lumens
Φ(v')	576	lm'
Chrom x	0.4337	
Chrom y	0.394	
Chrom u	0.2529	
Chrom v	0.3446	
Duv	0.0038	
Chrom u'	0.2529	
Chrom v'	0.5169	
CCT	2970	K
Purity	48.4	%
λ (dom)	584.3	nm
FWHM	154.4	nm
λ (peak)	615.4	nm
λ (center)	599.0	nm
λ (centroid)	591.9	nm
SDCM	Cool White	
RA	92	
Corr. Coef.	0.003623494	
Correlation	0.0054	
R1	95.2	
R2	98.9	
R3	95.3	
R4	92.7	
R5	95.2	
R6	94.7	
R7	88.3	
R8	79.3	
R9	58.0	
R10	98.7	
R11	94.7	
R12	82.4	
R13	97.3	
R14	98.6	

**Spectral Distribution of Radiant Flux**





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**REPORT NUMBER:** 18.01012

**PAGE:** 3 OF 15

**ISSUE DATE:** 06/15/18

**PREPARED FOR:** PROGRESS

**CATALOG NUMBER:** P560104-03030

**LUMINAIRE:** 1-Lt. LED Small White Wall Lantern

**LAMP CAT. NO.:** 93070270-3330

**LAMP:** 20- 3000K LEDs

**MOUNTING:** Wall

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



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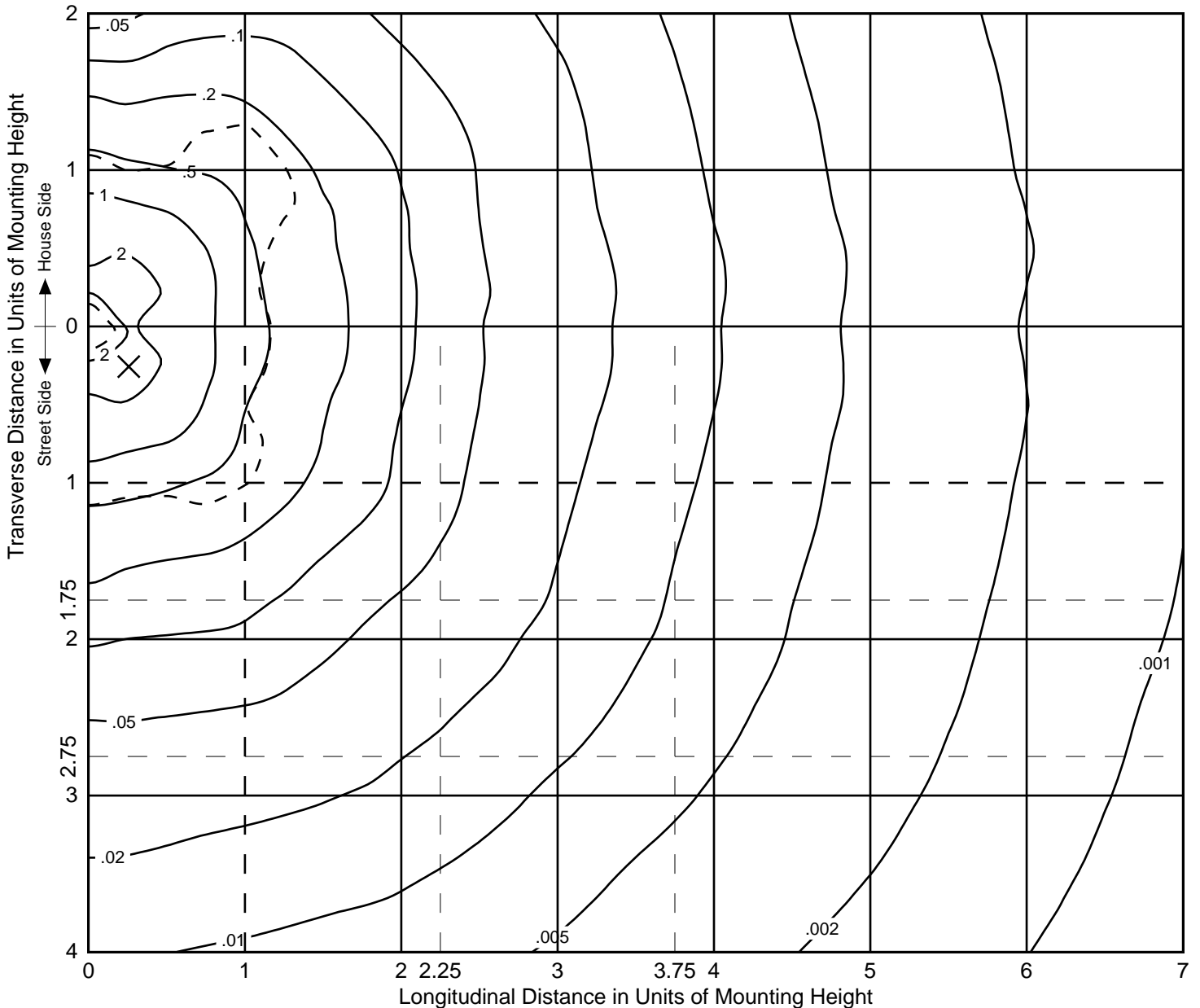
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ISSUE DATE: 06/15/18  
PREPARED FOR: PROGRESS  
CATALOG NUMBER: P560104-03030

PAGE: 4 OF 15

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

IES Classification: Type VS  
Cutoff Classification (deprecated): Semicutoff

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





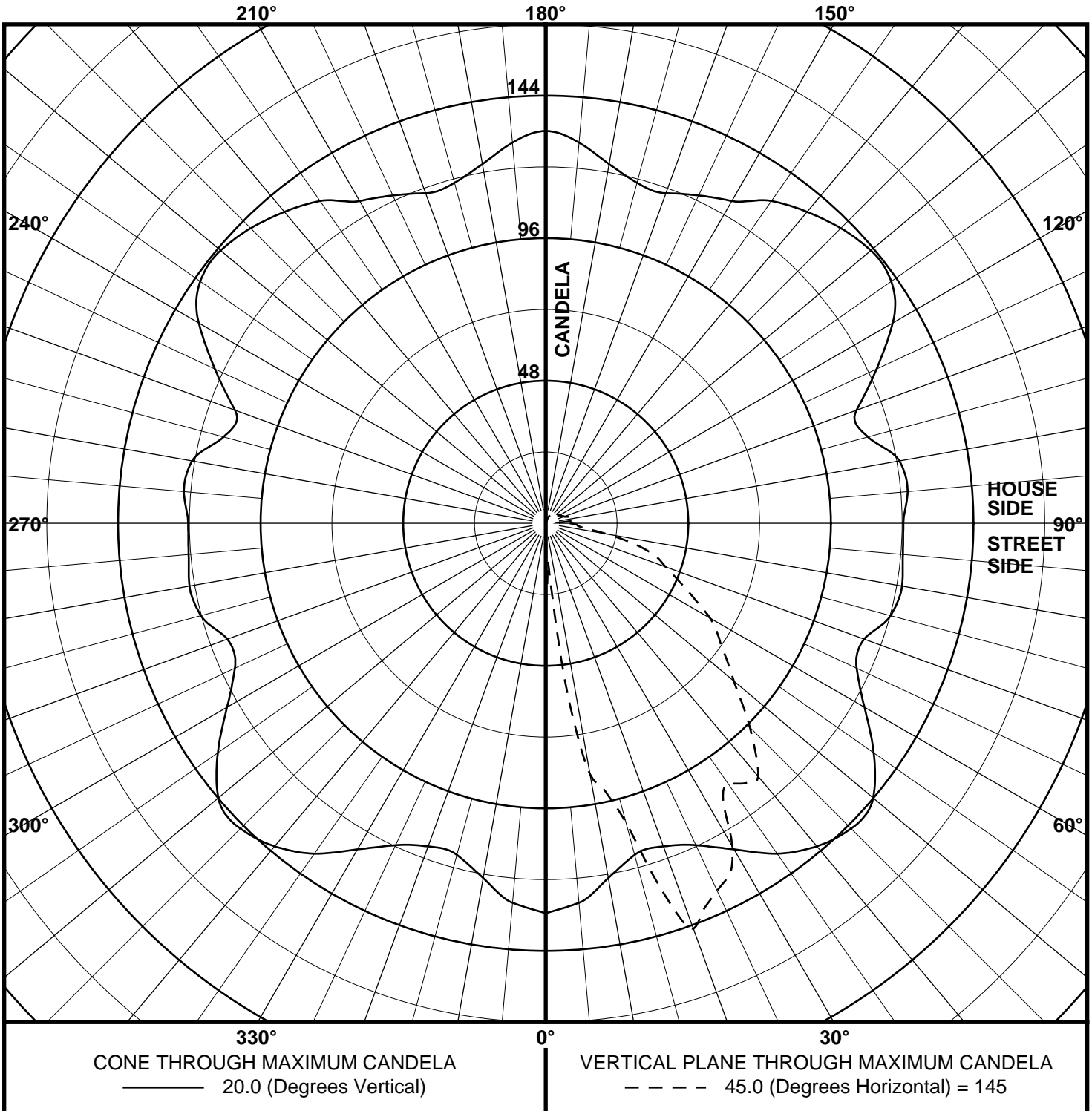
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CATALOG NUMBER: P560104-03030

PAGE: 5 OF 15

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





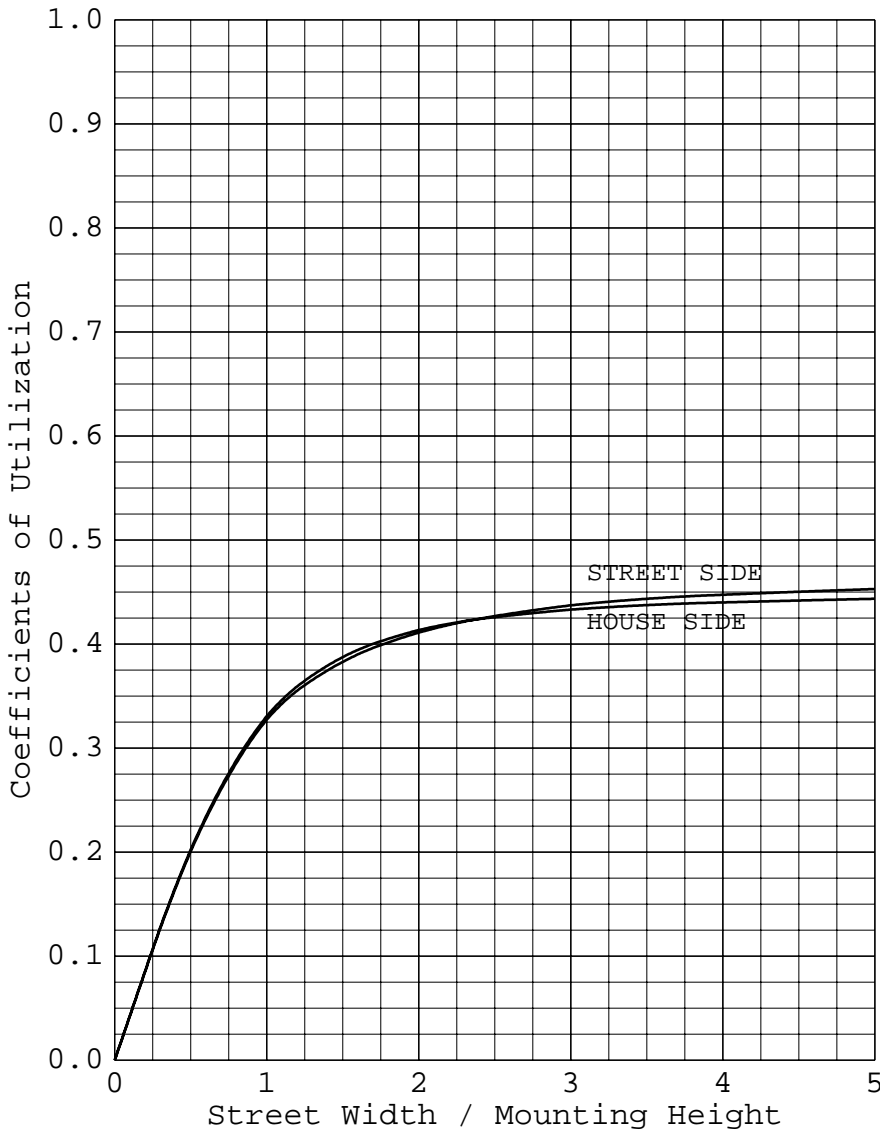
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PAGE: 6 OF 15

**COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION**



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	191	46.6
DOWNWARD HOUSE SIDE	185	45.3
DOWNWARD TOTAL	376	91.9
UPWARD STREET SIDE	19	4.6
UPWARD HOUSE SIDE	15	3.5
UPWARD TOTAL	33	8.1
TOTAL FLUX	409	100.0
EFFICACY = 43.9 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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**PREPARED FOR:** PROGRESS  
**CATALOG NUMBER:** P560104-03030

**PAGE:** 7 OF 15

BUG Rating Zonal Summary	Lumens	% of Fixture	Zone Ratings		
			B	U	G
Forward	191	46.6			
FL (0° – 30°)	44.9	11.0			
FM (30° – 60°)	95.6	23.4			
FH (60° – 80°)	42.9	10.5			G0
FVH (80° – 90°)	7.4	1.8			G0
Backward	185	45.3			
BL (0° – 30°)	45.3	11.1	B0		
BM (30° – 60°)	95.2	23.3	B0		
BH (60° – 80°)	38.8	9.5	B0		G0
BVH (80° – 90°)	6.0	1.5			G0
Upward	33	8.1			
UL (90° – 100°)	9.7	2.4		U1	
UH (100° – 180°)	23.4	5.7		U2	
Trapped Light	0	0.0			
Total Flux	409	100.0			



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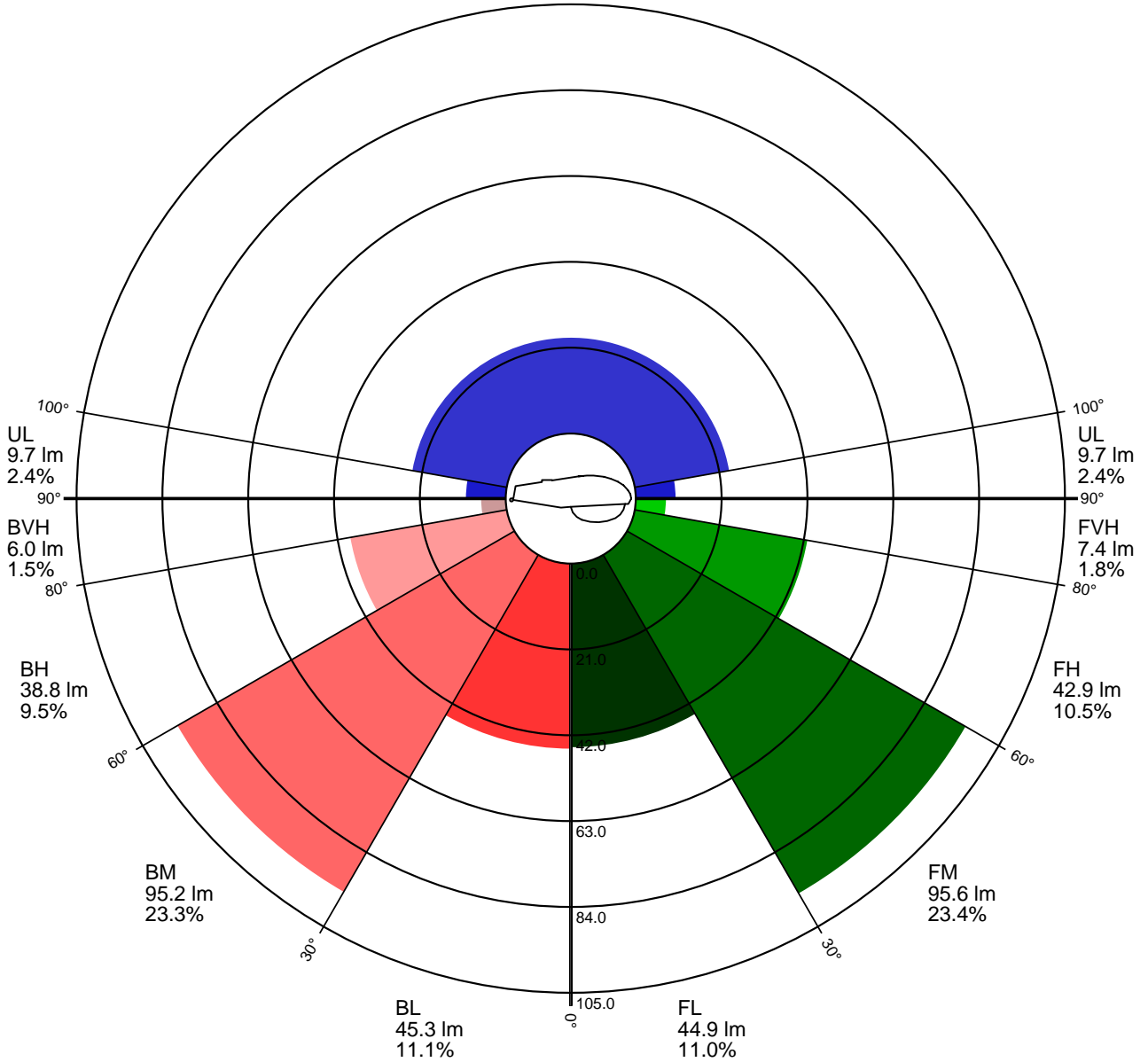
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**ISSUE DATE:** 06/15/18  
**PREPARED FOR:** PROGRESS  
**CATALOG NUMBER:** P560104-03030

**PAGE:** 8 OF 15

### Zonal Lumen Summary

(Linear scale)

UH  
23.4 lm  
5.7%







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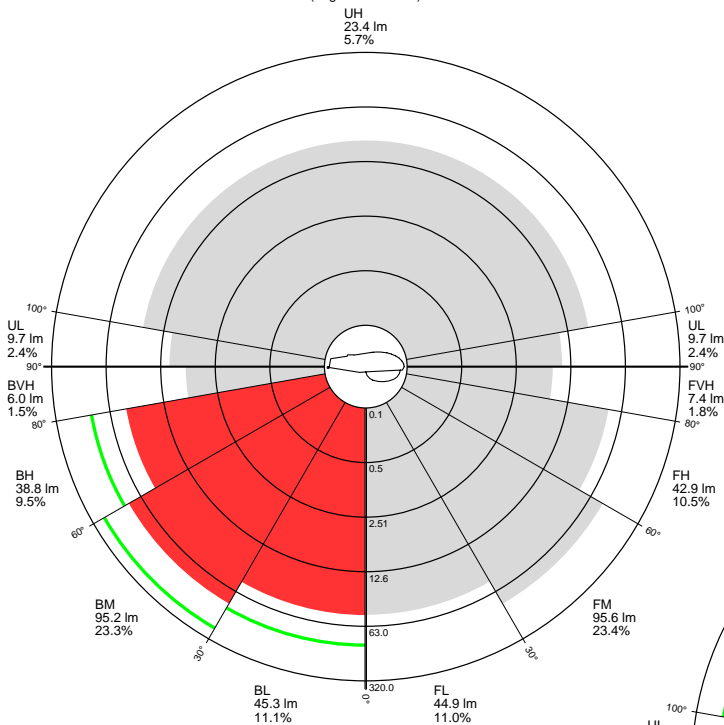
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**CATALOG NUMBER:** P560104-03030

**PAGE:** 9 OF 15

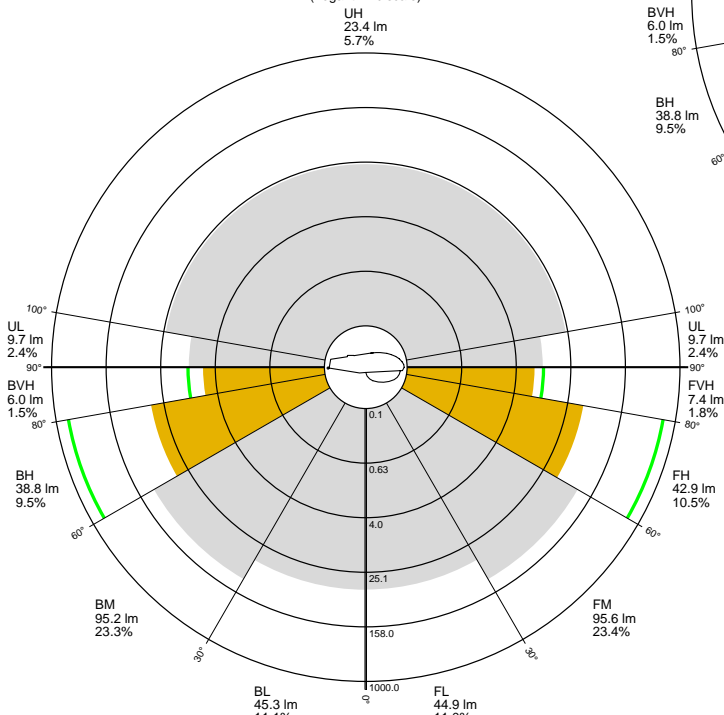
**Backlight Rating Details**

(Logarithmic scale)



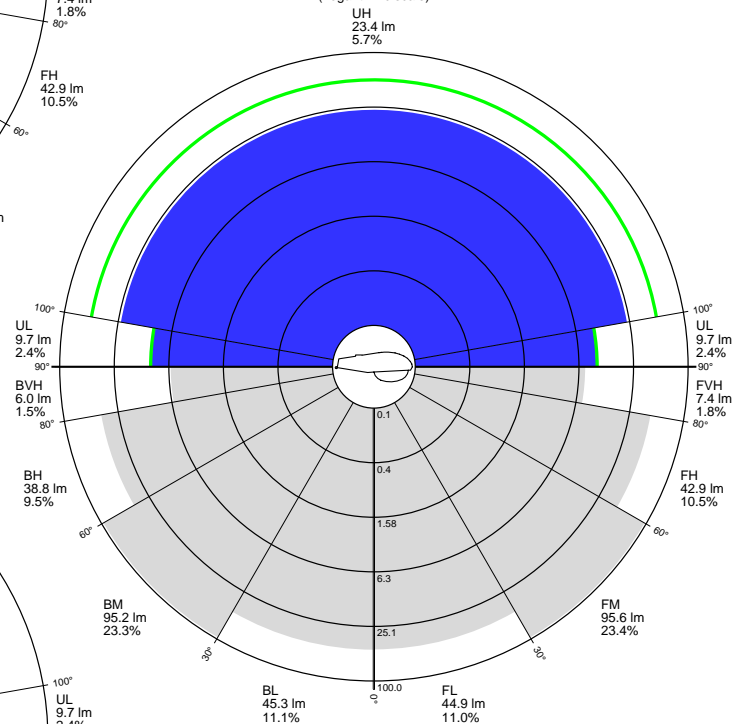
**Glare Rating Details**

(Logarithmic scale)



**Uplight Rating Details**

(Logarithmic scale)





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**CATALOG NUMBER:** P560104-03030

**PAGE:** 10 OF 15

CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0
	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.	1.	0.	1.	1.	1.	1.
	155.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
	145.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
	135.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	5.	5.
	125.0	4.	4.	5.	5.	5.	5.	5.	5.	5.	5.	5.
	115.0	5.	5.	5.	5.	5.	5.	5.	5.	6.	6.	6.
	105.0	7.	8.	8.	8.	8.	8.	8.	8.	8.	8.	9.
	95.0	8.	11.	11.	11.	10.	10.	11.	11.	11.	8.	11.
	92.5	5.	11.	11.	11.	9.	9.	11.	11.	11.	4.	11.
	90.0	8.	12.	11.	12.	11.	11.	12.	11.	12.	8.	12.
	87.5	11.	12.	12.	12.	12.	12.	13.	12.	12.	10.	12.
	85.0	11.	12.	12.	13.	12.	12.	13.	12.	12.	11.	12.
V	82.5	14.	14.	14.	14.	14.	15.	15.	15.	14.	14.	15.
E	80.0	20.	20.	20.	20.	20.	21.	21.	21.	21.	21.	21.
R	77.5	27.	27.	27.	27.	27.	29.	29.	30.	30.	29.	30.
T	75.0	34.	34.	33.	33.	33.	34.	36.	36.	36.	35.	37.
I	72.5	39.	39.	37.	37.	38.	39.	41.	40.	41.	40.	41.
C	70.0	40.	41.	41.	41.	43.	45.	46.	44.	44.	43.	45.
A	67.5	43.	44.	45.	46.	48.	51.	52.	50.	48.	47.	50.
L	65.0	47.	47.	46.	49.	51.	54.	55.	53.	52.	52.	54.
	62.5	52.	51.	47.	50.	52.	55.	57.	57.	57.	58.	59.
A	60.0	57.	54.	49.	51.	53.	56.	58.	60.	63.	64.	64.
N	57.5	61.	57.	53.	54.	55.	58.	61.	65.	67.	68.	70.
G	55.0	63.	60.	57.	57.	57.	60.	66.	71.	72.	72.	74.
L	52.5	64.	63.	62.	62.	61.	62.	71.	76.	78.	77.	78.
E	50.0	68.	68.	69.	67.	65.	69.	78.	82.	83.	83.	82.
	47.5	73.	74.	76.	73.	71.	78.	88.	90.	90.	90.	91.
	45.0	81.	81.	81.	79.	79.	85.	93.	98.	98.	97.	99.
	42.5	88.	88.	86.	85.	88.	91.	97.	102.	105.	105.	105.
	40.0	96.	94.	88.	89.	94.	99.	104.	107.	111.	111.	106.
	37.5	104.	99.	93.	94.	100.	109.	113.	113.	113.	110.	106.
	35.0	108.	104.	99.	100.	108.	117.	123.	119.	111.	107.	109.
	32.5	105.	104.	103.	103.	108.	120.	126.	121.	113.	111.	117.
	30.0	103.	102.	105.	109.	111.	120.	124.	123.	123.	126.	127.
	25.0	120.	115.	109.	106.	105.	112.	125.	136.	139.	137.	130.
	20.0 <<	131.	128.	121.	116.	116.	120.	127.	136.	142.	145.	144.
	15.0	102.	102.	102.	103.	102.	101.	101.	103.	104.	104.	102.
	10.0	90.	90.	86.	84.	83.	83.	84.	85.	85.	86.	88.
	5.0	20.	21.	21.	22.	22.	23.	23.	23.	24.	24.	25.
	0.0	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

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**PAGE:** 11 OF 15

CANDELA TABULATION

LATERAL ANGLE

	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0
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.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
145.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.
135.0	5.	5.	4.	4.	4.	4.	4.	4.	4.	4.	4.
125.0	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.
115.0	6.	6.	6.	6.	6.	6.	6.	5.	6.	5.	5.
105.0	9.	9.	9.	8.	9.	8.	8.	8.	8.	8.	8.
95.0	11.	11.	10.	10.	11.	10.	10.	6.	10.	10.	10.
92.5	11.	11.	9.	9.	10.	10.	10.	4.	10.	9.	10.
90.0	12.	12.	11.	11.	11.	11.	11.	7.	11.	10.	11.
87.5	12.	13.	12.	12.	12.	11.	11.	9.	11.	11.	11.
85.0	13.	13.	12.	12.	12.	12.	11.	10.	11.	11.	12.
V 82.5	16.	16.	15.	15.	15.	15.	14.	13.	15.	14.	15.
E 80.0	22.	22.	22.	21.	20.	20.	21.	20.	21.	20.	21.
R 77.5	30.	30.	29.	27.	27.	27.	28.	27.	28.	27.	28.
T 75.0	35.	35.	33.	32.	31.	32.	33.	33.	35.	33.	33.
I 72.5	40.	40.	37.	35.	35.	36.	38.	37.	39.	37.	37.
C 70.0	46.	46.	43.	41.	40.	40.	40.	40.	42.	41.	42.
A 67.5	52.	53.	51.	47.	46.	46.	45.	44.	47.	47.	48.
L 65.0	57.	58.	57.	50.	50.	51.	50.	50.	52.	53.	53.
62.5	59.	61.	59.	53.	53.	55.	56.	56.	57.	57.	57.
A 60.0	62.	62.	60.	55.	56.	59.	60.	60.	60.	60.	59.
N 57.5	66.	64.	62.	58.	60.	62.	62.	62.	62.	61.	61.
G 55.0	71.	67.	64.	60.	63.	64.	63.	63.	64.	63.	62.
L 52.5	73.	69.	65.	62.	65.	67.	65.	66.	68.	66.	63.
E 50.0	79.	72.	66.	66.	70.	71.	70.	70.	74.	70.	67.
47.5	91.	80.	73.	73.	75.	76.	73.	76.	79.	75.	72.
45.0	99.	88.	82.	81.	80.	79.	78.	80.	85.	81.	77.
42.5	100.	94.	93.	89.	84.	83.	83.	85.	89.	87.	84.
40.0	103.	102.	103.	94.	90.	91.	88.	87.	91.	93.	91.
37.5	108.	111.	109.	101.	96.	97.	92.	90.	97.	98.	96.
35.0	116.	118.	113.	107.	102.	100.	96.	94.	100.	102.	101.
32.5	123.	121.	114.	108.	102.	100.	98.	96.	101.	102.	101.
30.0	125.	122.	115.	107.	101.	99.	96.	95.	99.	101.	99.
25.0	125.	119.	107.	104.	108.	111.	111.	110.	114.	111.	104.
20.0 <<	135.	124.	116.	114.	120.	122.	121.	120.	122.	121.	112.
15.0	97.	95.	98.	100.	100.	101.	102.	102.	102.	104.	103.
10.0	88.	86.	85.	85.	85.	85.	84.	85.	86.	87.	88.
5.0	25.	25.	27.	28.	28.	29.	30.	31.	32.	32.	33.
0.0	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.

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**PAGE:** 12 OF 15

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE								
	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0	160.0
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	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.
145.0	4.	4.	4.	4.	4.	4.	4.	3.	3.	2.	1.
135.0	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	2.
125.0	5.	5.	5.	5.	5.	4.	4.	4.	4.	3.	3.
115.0	6.	5.	6.	6.	6.	5.	5.	5.	5.	4.	4.
105.0	8.	8.	8.	8.	8.	7.	7.	6.	6.	6.	5.
95.0	9.	9.	10.	9.	9.	5.	8.	7.	7.	6.	6.
92.5	8.	8.	10.	9.	9.	3.	9.	7.	7.	6.	6.
90.0	10.	10.	11.	10.	10.	6.	9.	8.	8.	7.	7.
87.5	11.	10.	11.	10.	10.	8.	9.	8.	8.	7.	7.
85.0	11.	11.	12.	11.	10.	9.	9.	9.	9.	8.	8.
V 82.5	15.	16.	16.	16.	15.	14.	14.	14.	12.	11.	9.
E 80.0	21.	22.	22.	23.	22.	21.	22.	20.	17.	15.	12.
R 77.5	28.	30.	31.	30.	31.	30.	30.	27.	23.	19.	15.
T 75.0	34.	36.	37.	37.	39.	38.	38.	33.	28.	23.	20.
I 72.5	40.	42.	45.	44.	44.	44.	44.	38.	33.	27.	23.
C 70.0	46.	49.	51.	50.	50.	49.	50.	45.	40.	33.	27.
A 67.5	53.	56.	57.	57.	55.	53.	54.	54.	46.	40.	33.
L 65.0	58.	61.	63.	61.	60.	59.	60.	61.	54.	47.	40.
62.5	61.	65.	66.	65.	65.	65.	66.	66.	61.	51.	45.
A 60.0	62.	67.	67.	68.	70.	70.	71.	70.	65.	56.	49.
N 57.5	63.	68.	70.	71.	75.	75.	75.	72.	69.	63.	54.
G 55.0	65.	70.	75.	76.	78.	78.	78.	75.	72.	67.	58.
L 52.5	66.	73.	78.	81.	82.	82.	83.	78.	71.	67.	62.
E 50.0	66.	74.	80.	84.	87.	87.	87.	82.	72.	66.	65.
47.5	68.	77.	88.	92.	93.	93.	91.	87.	81.	73.	67.
45.0	76.	82.	97.	100.	98.	99.	98.	95.	89.	82.	75.
42.5	88.	90.	98.	106.	103.	103.	103.	100.	96.	89.	87.
40.0	96.	99.	99.	104.	108.	108.	107.	105.	102.	97.	96.
37.5	105.	107.	105.	104.	107.	112.	111.	109.	107.	104.	101.
35.0	110.	115.	112.	110.	106.	110.	114.	114.	114.	108.	102.
32.5	110.	118.	117.	114.	110.	105.	111.	120.	121.	112.	105.
30.0	108.	115.	117.	118.	114.	113.	113.	120.	122.	114.	108.
25.0	105.	115.	121.	125.	131.	136.	135.	126.	113.	106.	105.
20.0 <<	111.	123.	135.	142.	143.	141.	137.	133.	125.	122.	118.
15.0	96.	94.	99.	104.	109.	111.	110.	109.	107.	103.	102.
10.0	89.	90.	90.	89.	89.	90.	91.	91.	90.	90.	90.
5.0	34.	35.	36.	37.	37.	38.	39.	39.	39.	39.	39.
0.0	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.	28.

CONE OF MAXIMUM CANDELA

THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.



**HUBBELL**  
Lighting

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

**REPORT NUMBER:** 18.01012  
**ISSUE DATE:** 06/15/18  
**PREPARED FOR:** PROGRESS  
**CATALOG NUMBER:** P560104-03030

**PAGE:** 13 OF 15

CANDELA TABULATION

	HOUSE SIDE				LATERAL ANGLE
	165.0	170.0	175.0	180.0	
180.0	0.	0.	0.	0.	
175.0	0.	0.	0.	0.	
165.0	0.	0.	0.	0.	
155.0	1.	1.	1.	0.	
145.0	1.	1.	0.	0.	
135.0	2.	1.	1.	1.	
125.0	3.	2.	2.	2.	
115.0	4.	3.	3.	3.	
105.0	5.	4.	4.	4.	
95.0	6.	5.	5.	3.	
92.5	6.	5.	5.	2.	
90.0	7.	6.	6.	4.	
87.5	8.	7.	7.	5.	
85.0	8.	7.	7.	6.	
V 82.5	8.	8.	8.	7.	
E 80.0	9.	9.	9.	7.	
R 77.5	12.	9.	9.	8.	
T 75.0	13.	10.	9.	9.	
I 72.5	16.	11.	10.	9.	
C 70.0	19.	12.	10.	9.	
A 67.5	26.	15.	11.	9.	
L 65.0	32.	20.	13.	11.	
62.5	37.	27.	21.	18.	
A 60.0	41.	32.	30.	29.	
N 57.5	44.	37.	38.	41.	
G 55.0	49.	44.	47.	50.	
L 52.5	56.	51.	55.	57.	
E 50.0	60.	59.	64.	63.	
47.5	64.	68.	73.	73.	
45.0	75.	77.	78.	80.	
42.5	86.	85.	86.	87.	
40.0	91.	90.	94.	95.	
37.5	94.	94.	99.	100.	
35.0	96.	97.	101.	105.	
32.5	99.	100.	103.	108.	
30.0	101.	100.	100.	101.	
25.0	106.	110.	112.	111.	
20.0<<	119.	123.	129.	132.	
15.0	103.	104.	105.	105.	
10.0	92.	93.	94.	94.	
5.0	39.	39.	39.	39.	
0.0	28.	28.	28.	28.	

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**PAGE:** 14 OF 15

5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		1
5- 10		5
10- 15		11
15- 20		19
20- 25		26
25- 30		29
30- 35		32
35- 40		34
40- 45		34
45- 50		32
50- 55		30
55- 60		28
60- 65		26
65- 70		23
70- 75		19
75- 80		14
80- 85		8
85- 90		6
90- 95		5
95-100		5
100-105		4
105-110		4
110-115		3
115-120		2
120-125		2
125-130		2
130-135		2
135-140		1
140-145		1
145-150		1
150-155		1
155-160		0
160-165		0
165-170		0
170-175		0
175-180		0

10-DEGREE ZONAL LUMEN SUMMARY		
0- 10		5
0- 20		36
0- 30		90
0- 40		157
0- 50		223
0- 60		281
0- 70		330
0- 80		363
0- 90		376
0-100		386
0-110		394
0-120		399
0-130		403
0-140		406
0-150		408
0-160		409
0-170		409
0-180		409

Project Number  
18.01012



**HUBBELL**  
Lighting

Date  
6/18/2018

### *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: 04/28/2018

### *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	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>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.**

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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.*