

Project Number  
17.03083



**HUBBELL**  
Lighting

Date  
12/8/2017

Lab 6  
Sphere

### Test Sample Description

Catalog Number: P560106-129-30

Description: Small, Single Module LED Wall Lantern

#### Photometry

IES LM-31-95

Test Method: IES LM-79-08 § 10

Preburn Time: 0:35

Time To Stabilize: 0:55

Total Operating Time: 9:08

Input Voltage (Volts): 120.1

Input Current (Amps): 0.081

Input Wattage (Watts): 9.6

Ambient Temp (°C): 24.1

#### Sphere

IES LM-16-93

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

Preburn Time: 8:00

Time To Stabilize: 1:08

Total Operating Time: 9:08

Input Voltage (Volts): 120.0

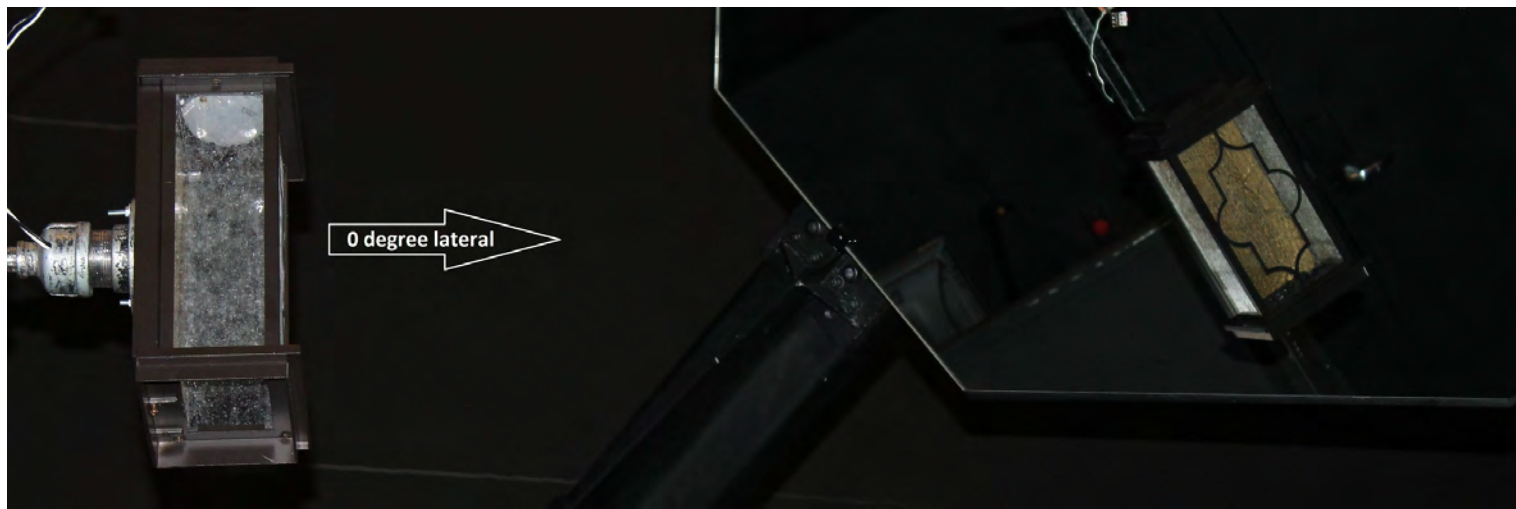
Input Current (Amps): 0.080

Input Wattage (Watts): 9.6

Ambient Temp (°C): 24.0

PF @ 120V: 0.992

THD @ 120V (%): 11.7



### Hubbell Lighting, Inc.

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

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



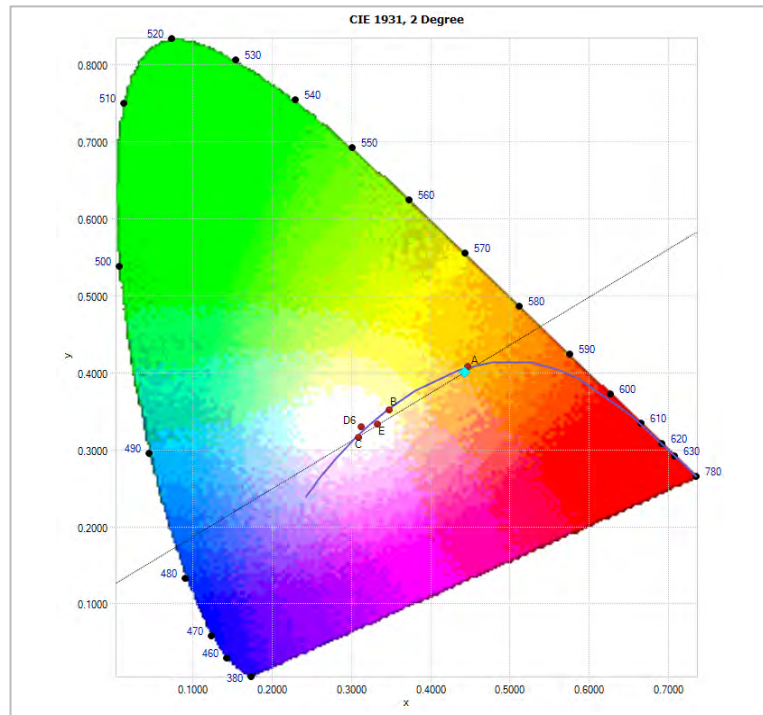
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Lamp Cat#: NA  
 Lamp Desc: 20 - 3000K LEDs

Efficacy: 31.6 LPW      S/P Ratio: 1.4 LM/LM

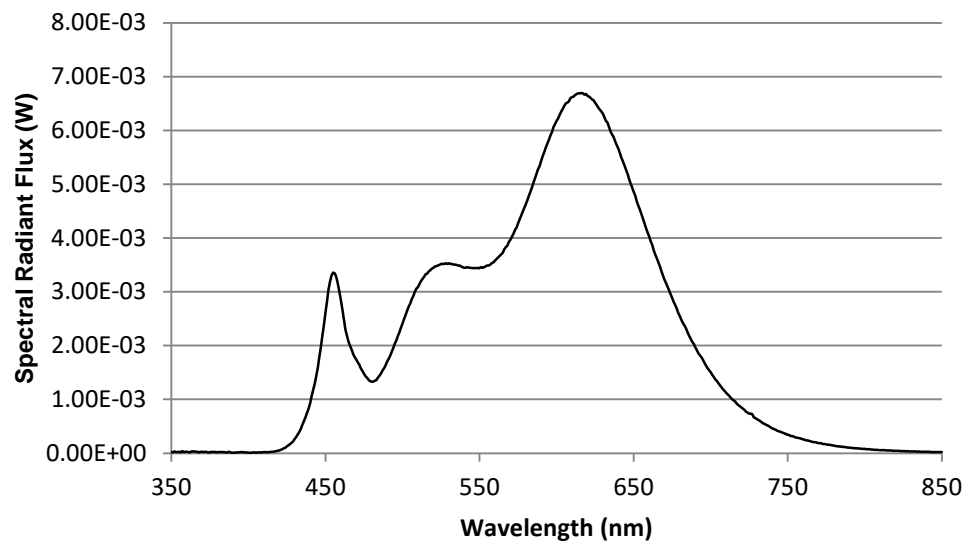
### Chromaticity Diagram



### Spectral Results

Name	Value	Unit
$\Phi$	1.03	watts
$\Phi(v)$	303	lumens
$\Phi(v')$	437	lm'
Chrom x	0.4424	
Chrom y	0.4012	
Chrom u	0.2554	
Chrom v	0.3474	
Duv	0.0023	
Chrom u'	0.2554	
Chrom v'	0.5211	
CCT	2884	K
Purity	53.2	%
$\lambda$ (dom)	584.0	nm
FWHM	152.3	nm
$\lambda$ (peak)	615.7	nm
$\lambda$ (center)	592.3	nm
$\lambda$ (centroid)	590.5	nm
SDCM	Cool White	
RA	94	
Corr. Coef.	0.001838845	
Correlation	0.0054	
R1	98.5	
R2	98.3	
R3	95.7	
R4	99.3	
R5	99.0	
R6	92.0	
R7	89.5	
R8	80.6	
R9	59.0	
R10	96.5	
R11	93.1	
R12	86.3	
R13	98.9	
R14	98.4	

### Spectral Distribution of Radiant Flux



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**ISSUE DATE:** 12/08/17

**PREPARED FOR:** PROGRESS

**CATALOG NUMBER:** P560106-129-30

**LUMINAIRE:** Small, 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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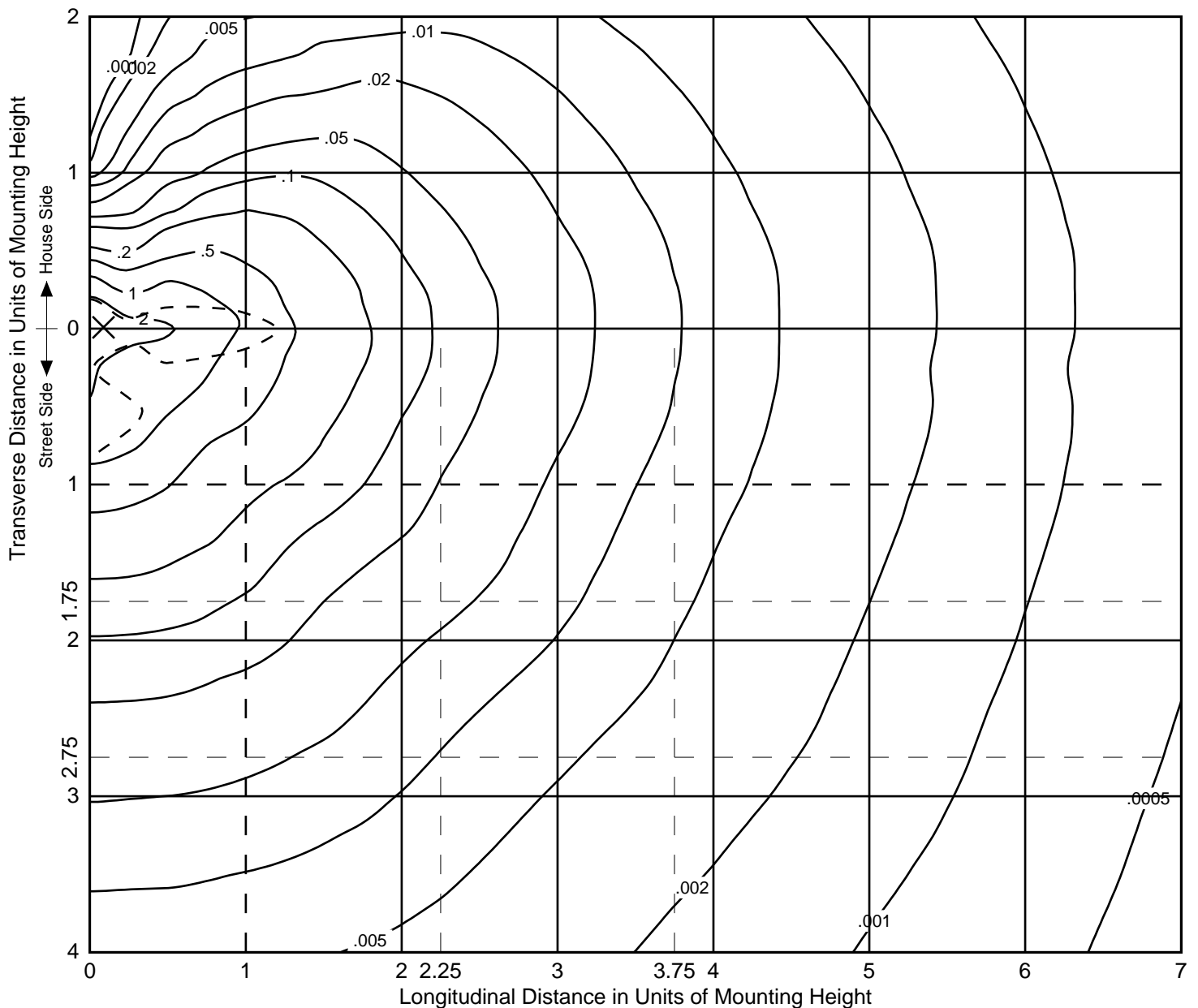
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## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

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





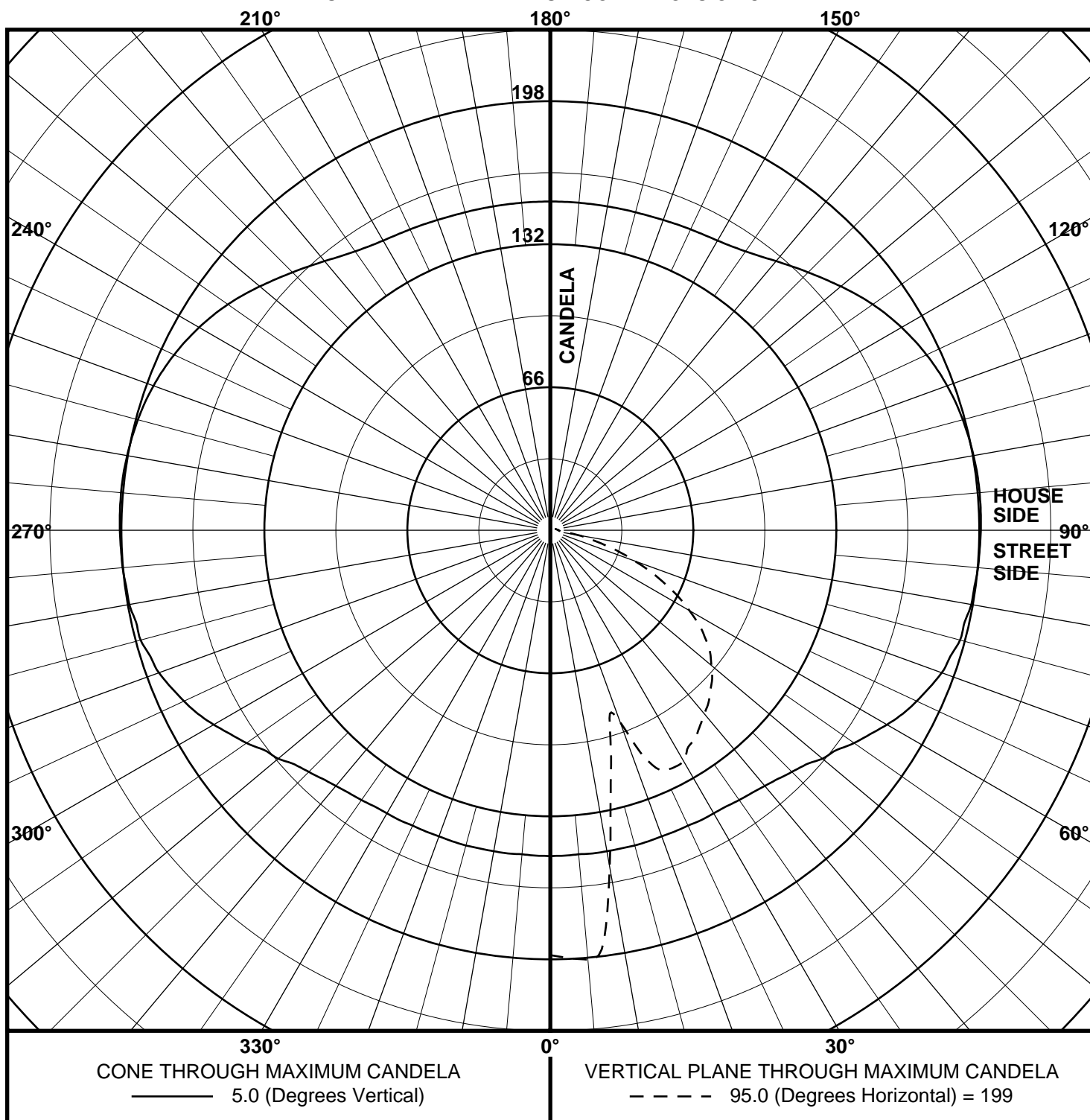
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





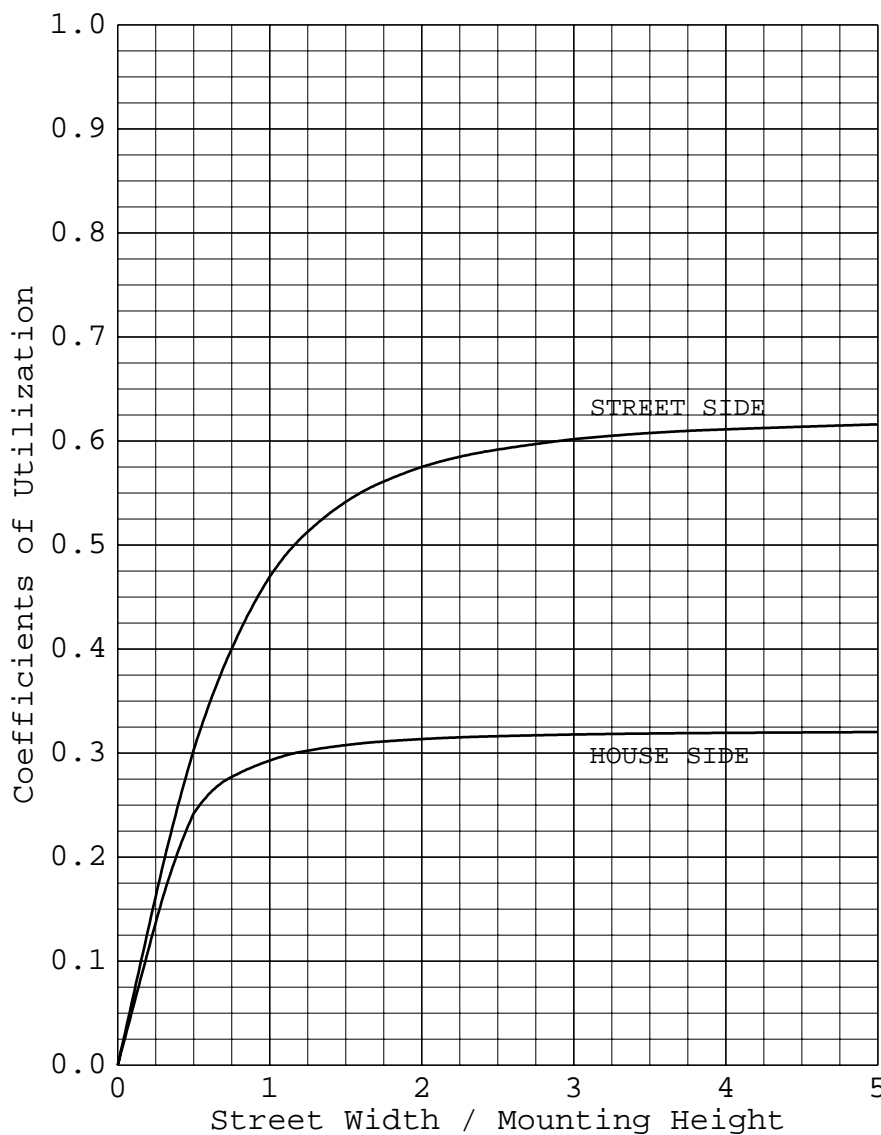
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## COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	175	63.0
DOWNWARD HOUSE SIDE	90	32.4
DOWNWARD TOTAL	265	95.4
UPWARD STREET SIDE	9	3.3
UPWARD HOUSE SIDE	4	1.3
UPWARD TOTAL	13	4.6
TOTAL FLUX	278	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			B0 U1 G0		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° – 30°)	175			
FM	(30° – 60°)	45.1			
FH	(60° – 80°)	92.0			
FVH	(80° – 90°)	33.4			G0
		4.8			G0
Backward					
BL	(0° – 30°)	90			
BM	(30° – 60°)	31.1	B0		
BH	(60° – 80°)	41.8	B0		
BVH	(80° – 90°)	15.5	B0		G0
		1.8			G0
Upward					
UL	(90° – 100°)	13		U1	
UH	(100° – 180°)	4.1		U1	
Trapped Light					
Total Flux					
		0			
		278			
		100.0			





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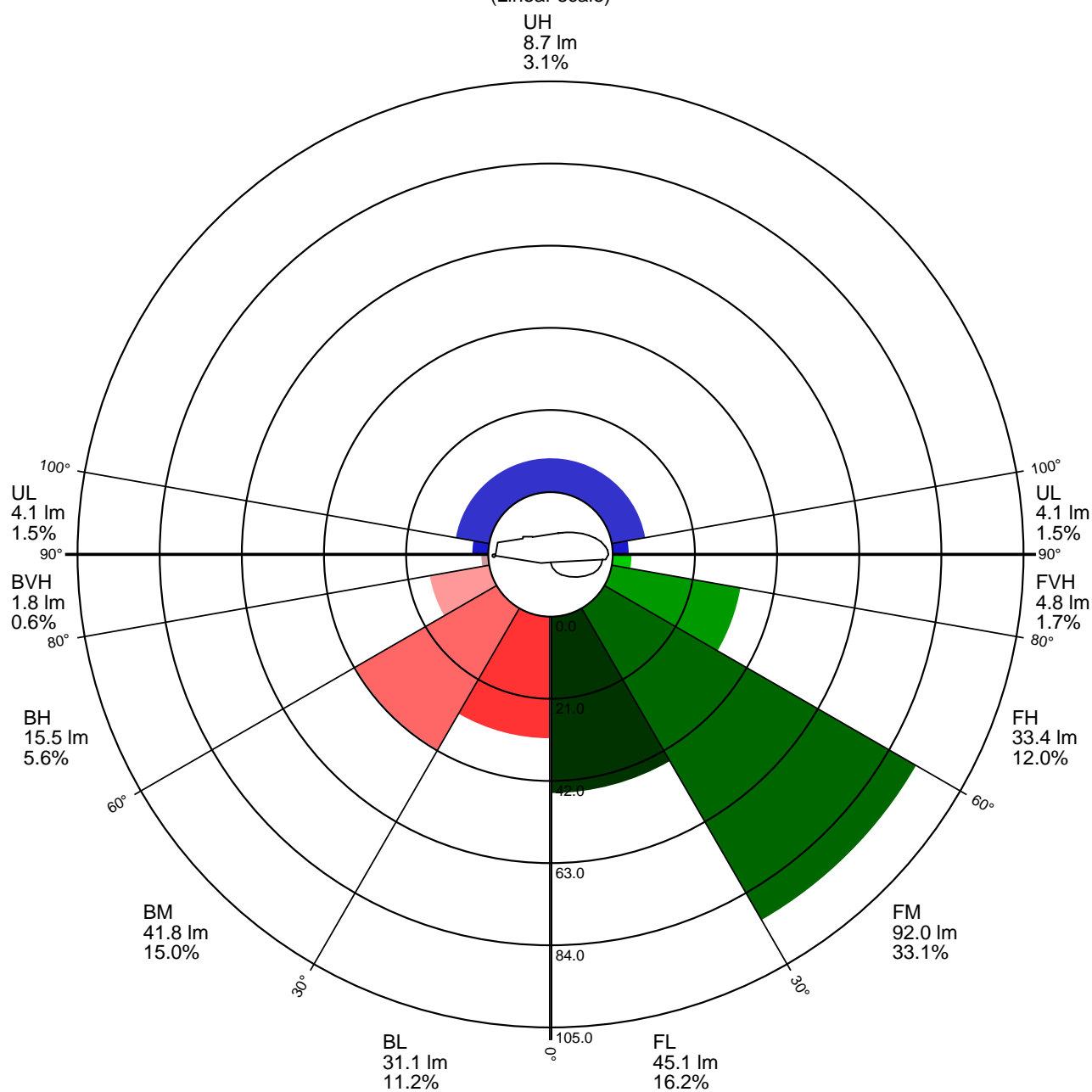
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## Zonal Lumen Summary

(Linear scale)







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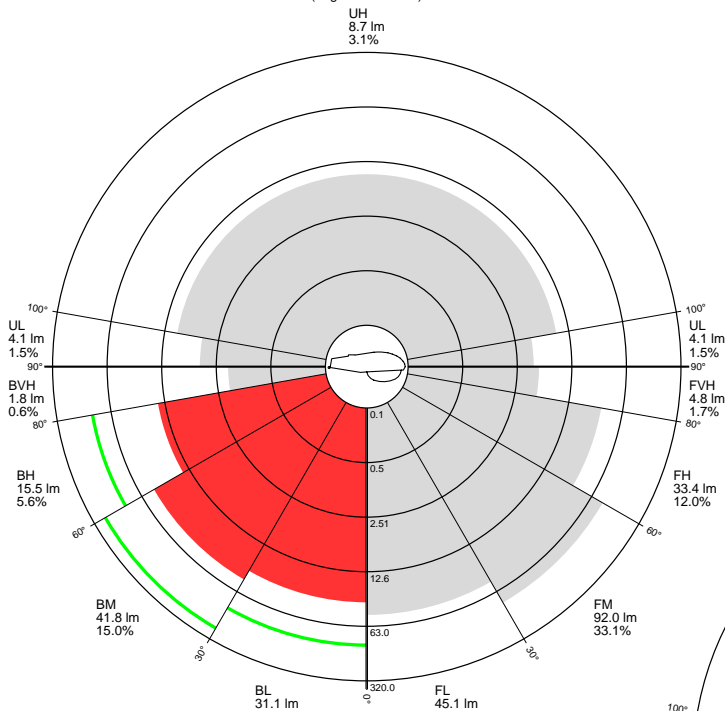
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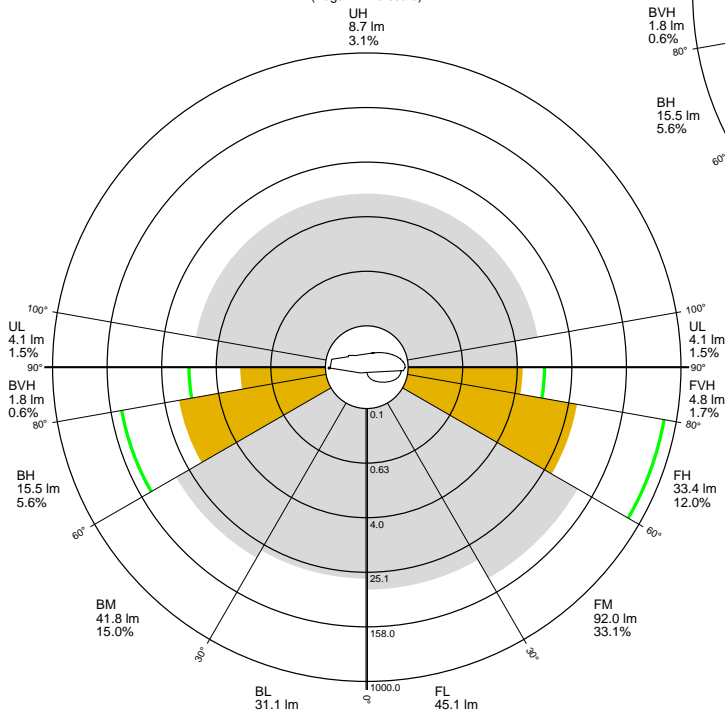
### Backlight Rating Details

(Logarithmic scale)



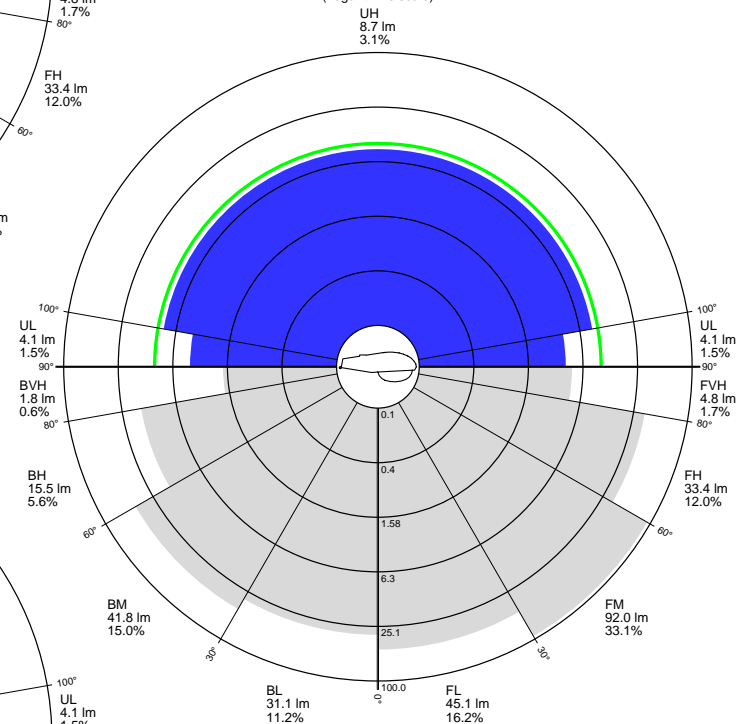
### Glare Rating Details

(Logarithmic scale)



### Uplight Rating Details

(Logarithmic scale)



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CANDELA TABULATION

	LATERAL ANGLE										
	STREET SIDE	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0
	0.0										
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
	135.0	1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
	125.0	2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
	115.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
	105.0	4.	4.	4.	4.	5.	5.	5.	5.	5.	5.
	95.0	6.	6.	6.	6.	7.	7.	7.	7.	7.	7.
	92.5	7.	7.	7.	7.	8.	8.	8.	7.	7.	7.
	90.0	8.	8.	8.	8.	9.	9.	8.	8.	8.	8.
	87.5	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
	85.0	10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
V	82.5	11.	11.	11.	11.	12.	12.	12.	11.	11.	11.
E	80.0	14.	14.	14.	14.	14.	14.	14.	14.	14.	14.
R	77.5	17.	17.	17.	17.	18.	18.	18.	17.	17.	17.
T	75.0	21.	21.	21.	21.	21.	22.	22.	22.	22.	22.
I	72.5	26.	26.	26.	26.	26.	26.	26.	26.	26.	26.
C	70.0	31.	31.	31.	31.	32.	32.	32.	32.	32.	32.
A	67.5	36.	36.	36.	36.	37.	37.	37.	37.	36.	37.
L	65.0	41.	41.	41.	42.	42.	42.	43.	42.	42.	42.
	62.5	47.	46.	46.	47.	47.	47.	47.	47.	48.	47.
A	60.0	51.	51.	52.	52.	53.	52.	52.	52.	52.	52.
N	57.5	57.	57.	57.	58.	58.	58.	57.	57.	56.	56.
G	55.0	62.	62.	62.	63.	63.	62.	62.	61.	59.	59.
L	52.5	68.	68.	68.	67.	67.	67.	66.	65.	65.	64.
E	50.0	74.	74.	74.	74.	73.	73.	72.	71.	70.	69.
	47.5	80.	81.	80.	80.	79.	79.	78.	76.	76.	75.
	45.0	88.	87.	87.	86.	85.	84.	83.	82.	81.	82.
	42.5	93.	92.	92.	92.	91.	90.	88.	87.	87.	87.
	40.0	97.	97.	97.	96.	95.	94.	93.	92.	91.	92.
	37.5	101.	101.	100.	99.	98.	97.	96.	95.	95.	95.
	35.0	105.	104.	104.	102.	101.	100.	100.	101.	101.	101.
	32.5	110.	109.	109.	108.	107.	106.	106.	105.	105.	103.
	30.0	114.	114.	113.	112.	111.	109.	108.	107.	106.	106.
	25.0	114.	114.	112.	112.	111.	110.	110.	111.	110.	108.
	20.0	127.	126.	125.	125.	124.	124.	123.	122.	119.	111.
	15.0	103.	103.	103.	102.	102.	101.	99.	98.	96.	93.
	10.0	126.	126.	126.	126.	126.	127.	128.	128.	129.	131.
	5.0<<	150.	150.	150.	150.	150.	151.	151.	150.	150.	150.
	0.0	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.

CONE OF MAXIMUM CANDELA

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CANDELA TABULATION

	STREET	SIDE	LATERAL ANGLE									
		27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5
VERTICAL	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.	2.	2.	2.	2.	2.
	135.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	125.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
	115.0	4.	3.	3.	4.	3.	3.	3.	3.	3.	3.	3.
	105.0	5.	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.
	95.0	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.
	92.5	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.	6.
	90.0	8.	8.	8.	7.	7.	7.	7.	7.	7.	7.	7.
	87.5	9.	9.	8.	8.	8.	8.	8.	8.	7.	7.	7.
	85.0	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.
	82.5	11.	11.	11.	10.	10.	10.	10.	10.	10.	10.	9.
	80.0	14.	14.	13.	13.	13.	13.	12.	12.	12.	12.	12.
	77.5	17.	17.	17.	16.	16.	16.	15.	15.	15.	15.	16.
	75.0	22.	21.	21.	20.	20.	19.	19.	19.	19.	19.	20.
	72.5	26.	26.	25.	25.	24.	23.	23.	23.	23.	24.	24.
	70.0	31.	31.	30.	29.	28.	27.	27.	27.	28.	28.	30.
	67.5	37.	36.	36.	35.	33.	32.	31.	31.	32.	33.	34.
	65.0	42.	42.	41.	39.	38.	36.	36.	36.	37.	38.	40.
	62.5	47.	46.	46.	44.	42.	41.	40.	40.	41.	43.	45.
	60.0	52.	51.	50.	49.	47.	46.	45.	45.	45.	48.	50.
	57.5	55.	55.	54.	53.	51.	50.	49.	49.	50.	53.	55.
	55.0	58.	57.	56.	55.	53.	52.	52.	52.	54.	57.	60.
	52.5	64.	62.	61.	59.	57.	55.	55.	56.	57.	60.	64.
	50.0	69.	68.	66.	64.	61.	60.	59.	59.	61.	64.	68.
	47.5	75.	74.	72.	69.	67.	64.	63.	63.	65.	67.	72.
	45.0	81.	80.	78.	76.	73.	70.	69.	69.	70.	73.	77.
	42.5	86.	86.	84.	81.	78.	75.	73.	73.	74.	77.	82.
	40.0	91.	90.	88.	85.	81.	78.	76.	76.	77.	80.	84.
37.5	95.	95.	93.	90.	85.	81.	79.	79.	80.	83.	86.	
35.0	100.	98.	97.	94.	89.	85.	83.	82.	83.	85.	87.	
32.5	102.	101.	99.	96.	92.	88.	85.	84.	84.	86.	88.	
30.0	103.	102.	100.	96.	92.	87.	84.	83.	84.	86.	89.	
25.0	107.	104.	101.	97.	92.	87.	82.	77.	76.	77.	79.	
20.0	107.	102.	97.	91.	84.	79.	75.	72.	69.	68.	67.	
15.0	91.	90.	90.	91.	95.	98.	101.	101.	100.	97.	95.	
10.0	133.	135.	137.	138.	141.	142.	144.	145.	145.	143.	142.	
5.0<<	151.	151.	151.	152.	153.	154.	156.	158.	160.	164.	167.	
0.0	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.	

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CANDELA TABULATION

	STREET	LATERAL ANGLE										
		SIDE	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5	75.0	77.5
VERTICAL	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.	1.	1.	1.	1.
	135.0	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.
	125.0	3.	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	115.0	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.
	105.0	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.
	95.0	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.	4.
	92.5	6.	6.	6.	5.	5.	5.	5.	5.	5.	4.	4.
	90.0	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.
	87.5	7.	7.	7.	6.	6.	6.	6.	5.	5.	5.	5.
	85.0	8.	8.	7.	7.	7.	7.	7.	6.	6.	6.	6.
	82.5	9.	9.	9.	9.	9.	9.	9.	9.	9.	8.	9.
	80.0	12.	12.	12.	12.	12.	12.	12.	12.	12.	13.	13.
	77.5	16.	16.	16.	16.	16.	16.	16.	16.	16.	17.	18.
	75.0	20.	21.	21.	21.	21.	21.	21.	21.	22.	22.	23.
	72.5	25.	26.	27.	27.	27.	27.	27.	27.	27.	29.	30.
	70.0	31.	32.	33.	33.	33.	33.	33.	33.	35.	36.	37.
	67.5	37.	38.	39.	39.	39.	39.	40.	40.	42.	44.	46.
	65.0	43.	45.	45.	46.	46.	46.	47.	49.	49.	51.	52.
	62.5	48.	50.	52.	52.	52.	52.	53.	54.	56.	58.	60.
	60.0	53.	57.	58.	58.	58.	58.	59.	60.	63.	65.	67.
	57.5	59.	62.	64.	64.	64.	64.	65.	66.	69.	71.	73.
	55.0	63.	66.	69.	70.	70.	70.	70.	71.	74.	77.	78.
	52.5	67.	71.	74.	75.	75.	75.	75.	75.	78.	80.	83.
	50.0	72.	76.	78.	79.	79.	79.	79.	79.	82.	85.	88.
	47.5	76.	80.	83.	84.	84.	84.	83.	83.	85.	87.	91.
	45.0	81.	84.	87.	87.	87.	87.	88.	86.	88.	90.	93.
	42.5	85.	88.	89.	89.	89.	89.	90.	89.	91.	94.	97.
	40.0	87.	90.	90.	91.	90.	90.	90.	91.	92.	95.	99.
37.5	88.	91.	92.	92.	91.	90.	91.	91.	93.	96.	98.	
35.0	91.	94.	94.	92.	91.	91.	92.	92.	95.	99.	102.	
32.5	91.	95.	97.	95.	92.	92.	94.	94.	98.	102.	107.	
30.0	92.	94.	95.	95.	94.	94.	94.	96.	98.	102.	108.	
25.0	81.	84.	86.	89.	91.	93.	95.	98.	98.	101.	104.	
20.0	68.	68.	68.	67.	68.	68.	68.	69.	71.	73.	78.	
15.0	95.	94.	94.	94.	94.	94.	94.	94.	93.	95.	97.	
10.0	138.	135.	132.	129.	127.	128.	130.	136.	144.	150.	153.	
5.0<<	171.	175.	179.	183.	187.	190.	192.	194.	196.	196.	197.	
0.0	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.	

CONE OF MAXIMUM CANDELA

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**HUBBELL**  
**Lighting**

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

REPORT NUMBER: 17.03083

PAGE: 13 OF 16

ISSUE DATE: 12/08/17

PREPARED FOR: PROGRESS

CATALOG NUMBER: P560106-129-30

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.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	1.	1.	1.	1.	1.	0.	1.	0.	0.	0.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.
	135.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	125.0	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.
	115.0	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.
	105.0	3.	3.	2.	2.	3.	2.	2.	2.	1.	1.
	95.0	4.	3.	3.	3.	3.	3.	2.	2.	2.	1.
	92.5	4.	4.	3.	3.	4.	4.	3.	2.	2.	1.
	90.0	4.	4.	4.	4.	4.	4.	3.	2.	2.	1.
	87.5	5.	4.	4.	4.	4.	4.	3.	3.	2.	1.
	85.0	6.	5.	5.	5.	5.	5.	4.	3.	2.	2.
V	82.5	8.	8.	8.	8.	8.	6.	5.	3.	2.	2.
E	80.0	13.	13.	13.	13.	13.	11.	9.	7.	4.	3.
R	77.5	18.	19.	19.	19.	19.	16.	12.	9.	5.	3.
T	75.0	25.	26.	26.	26.	26.	21.	17.	12.	6.	3.
I	72.5	32.	33.	33.	34.	34.	27.	21.	15.	8.	4.
C	70.0	41.	42.	43.	42.	42.	34.	26.	19.	9.	4.
A	67.5	50.	50.	51.	51.	51.	40.	31.	22.	10.	5.
L	65.0	58.	59.	61.	60.	58.	47.	35.	26.	11.	5.
	62.5	66.	68.	68.	69.	67.	52.	41.	28.	12.	5.
A	60.0	74.	75.	76.	76.	74.	59.	45.	31.	13.	6.
N	57.5	80.	82.	83.	84.	82.	65.	49.	34.	15.	6.
G	55.0	85.	87.	88.	89.	88.	70.	53.	37.	16.	7.
L	52.5	92.	93.	94.	94.	93.	74.	57.	39.	17.	7.
E	50.0	95.	97.	99.	99.	97.	77.	60.	41.	18.	8.
	47.5	99.	102.	103.	104.	101.	81.	63.	44.	19.	8.
	45.0	103.	105.	107.	108.	105.	84.	67.	46.	20.	9.
	42.5	107.	109.	110.	111.	108.	86.	69.	48.	22.	10.
	40.0	109.	111.	113.	114.	111.	88.	71.	51.	23.	11.
	37.5	110.	114.	115.	115.	114.	91.	72.	53.	25.	12.
	35.0	112.	115.	119.	119.	117.	96.	74.	55.	27.	13.
	32.5	117.	120.	122.	124.	119.	100.	77.	56.	28.	13.
	30.0	122.	125.	126.	126.	123.	101.	79.	57.	28.	14.
	25.0	115.	120.	123.	124.	122.	98.	78.	52.	28.	23.
	20.0	88.	92.	95.	95.	94.	75.	62.	50.	38.	39.
	15.0	105.	107.	108.	108.	108.	97.	94.	86.	87.	76.
	10.0	155.	157.	158.	158.	158.	153.	132.	140.	142.	133.
	5.0<<	198.	198.	198.	199.	199.	197.	192.	182.	168.	157.
	0.0	196.	196.	196.	196.	196.	196.	196.	196.	196.	196.

||  
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

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**REPORT NUMBER:** 17.03083  
**ISSUE DATE:** 12/08/17  
**PREPARED FOR:** PROGRESS  
**CATALOG NUMBER:** P560106-129-30

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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	1.	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	1.	0.	0.
	45.0	2.	1.	0.
	42.5	2.	1.	1.
	40.0	2.	1.	1.
	37.5	3.	2.	2.
	35.0	4.	3.	3.
	32.5	6.	5.	5.
	30.0	7.	6.	6.
	25.0	20.	18.	17.
	20.0	42.	38.	39.
	15.0	57.	56.	56.
	10.0	118.	115.	114.
	5.0<<	152.	152.	152.
	0.0	196.	196.	196.

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**PAGE:** 15 OF 16

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**PREPARED FOR:** PROGRESS

**CATALOG NUMBER:** P560106-129-30

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	11
10- 15	13
15- 20	13
20- 25	16
25- 30	19
30- 35	21
35- 40	23
40- 45	24
45- 50	23
50- 55	22
55- 60	21
60- 65	18
65- 70	14
70- 75	10
75- 80	7
80- 85	4
85- 90	3
90- 95	2
95-100	2
100-105	2
105-110	1
110-115	1
115-120	1
120-125	1
125-130	1
130-135	1
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	15
0- 20	42
0- 30	76
0- 40	120
0- 50	167
0- 60	210
0- 70	242
0- 80	259
0- 90	265
0-100	269
0-110	272
0-120	274
0-130	276
0-140	277
0-150	277
0-160	278
0-170	278
0-180	278



Project Number  
17.03083



**HUBBELL**  
Lighting

Date  
12/8/2017

### *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.*