

Project Number
18.01011



HUBBELL
Lighting

Date
6/18/2018

Lab 6
Sphere

Test Sample Description

Catalog Number: P560105-03030
Description: 1-Lt. LED Med Black Wall Lantern

Photometry

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

Preburn Time: 0:30
Time To Stabilize: 1:45
Total Operating Time: 4:25

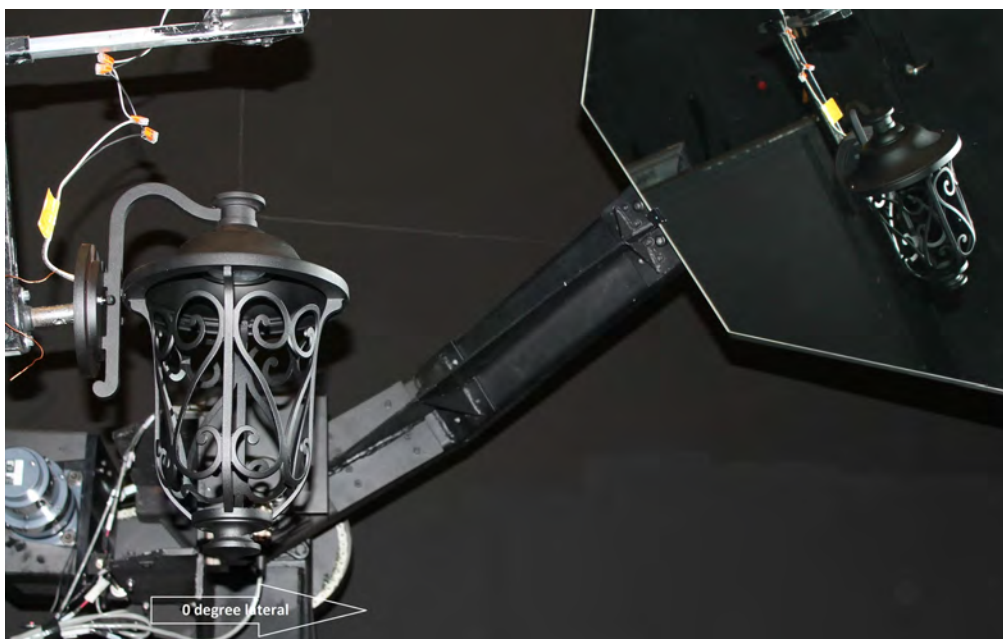
Input Voltage (Volts): 119.9
Input Current (Amps): 0.075
Input Wattage (Watts): 8.9
Ambient Temp (°C): 24.3

Sphere

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

Preburn Time: 3:00
Time To Stabilize: 0:59
Total Operating Time: 3:59

Input Voltage (Volts): 120.0
Input Current (Amps): 0.074
Input Wattage (Watts): 8.8
Ambient Temp (°C): 24



Hubbell Lighting, Inc.

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

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



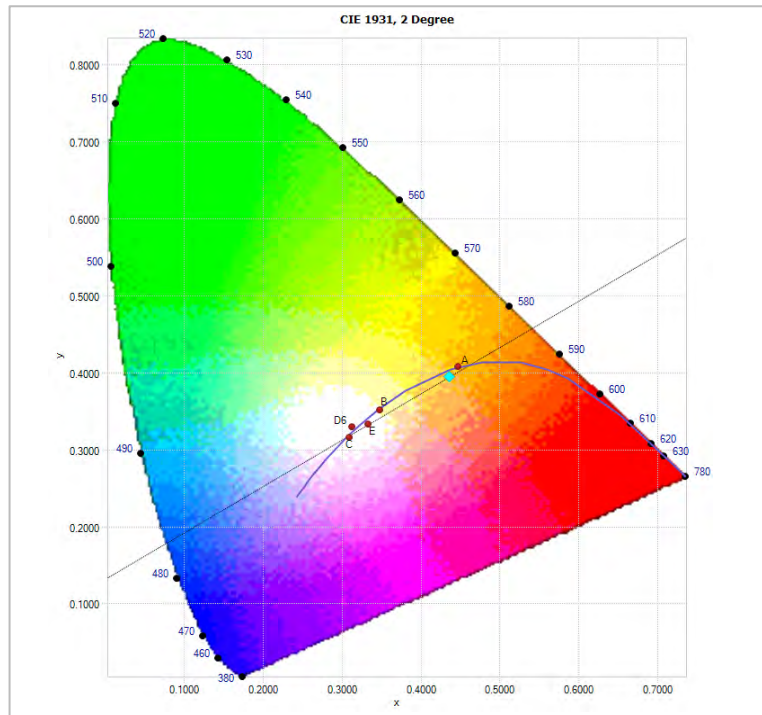
This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



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

Efficacy: 28.6 LPW S/P Ratio: 1.4 LM/LM

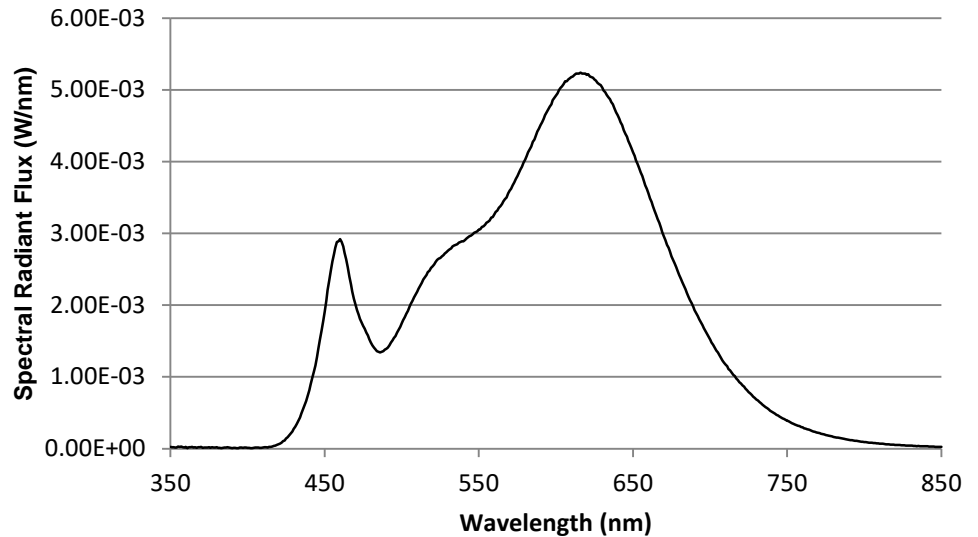
Chromaticity Diagram



Spectral Results

Name	Value	Unit
Φ	0.88	watts
Φ(v)	252	lumens
Φ(v')	364	lm'
Chrom x	0.4357	
Chrom y	0.395	
Chrom u	0.2537	
Chrom v	0.3451	
Duv	0.0037	
Chrom u'	0.2537	
Chrom v'	0.5176	
CCT	2943	K
Purity	49.4	%
λ (dom)	584.4	nm
FWHM	153.6	nm
λ (peak)	615.7	nm
λ (center)	599.4	nm
λ (centroid)	592.6	nm
SDCM	Cool White	
RA	93	
Corr. Coef.	0.003478331	
Correlation	0.0054	
R1	95.0	
R2	99.0	
R3	95.8	
R4	92.6	
R5	95.0	
R6	95.0	
R7	88.4	
R8	79.2	
R9	57.6	
R10	98.2	
R11	94.5	
R12	82.5	
R13	97.1	
R14	98.9	

Spectral Distribution of Radiant Flux





®

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LUMINAIRE: 1-Lt. LED Med Black 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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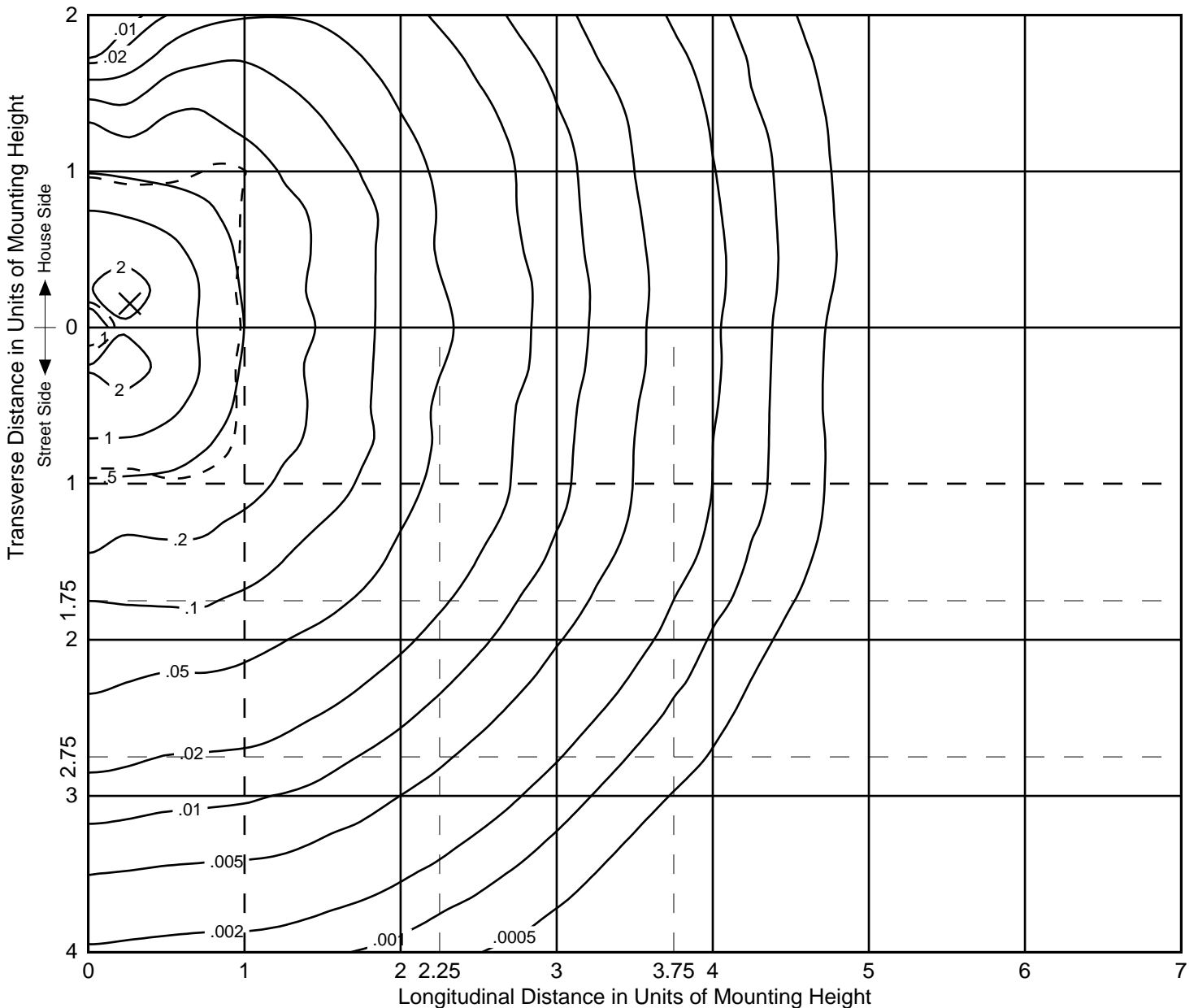
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 6.5-foot mounting height

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

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





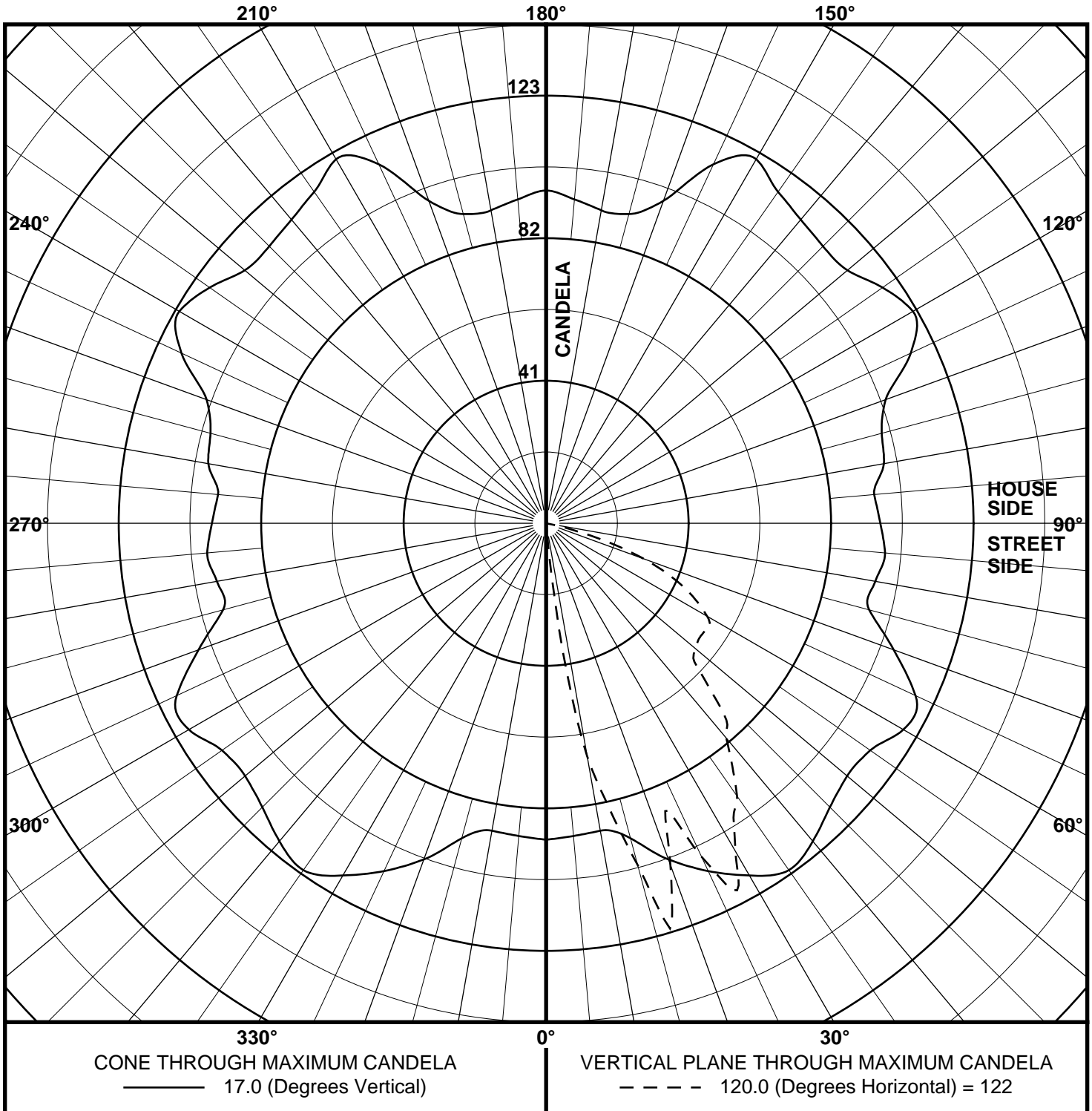
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





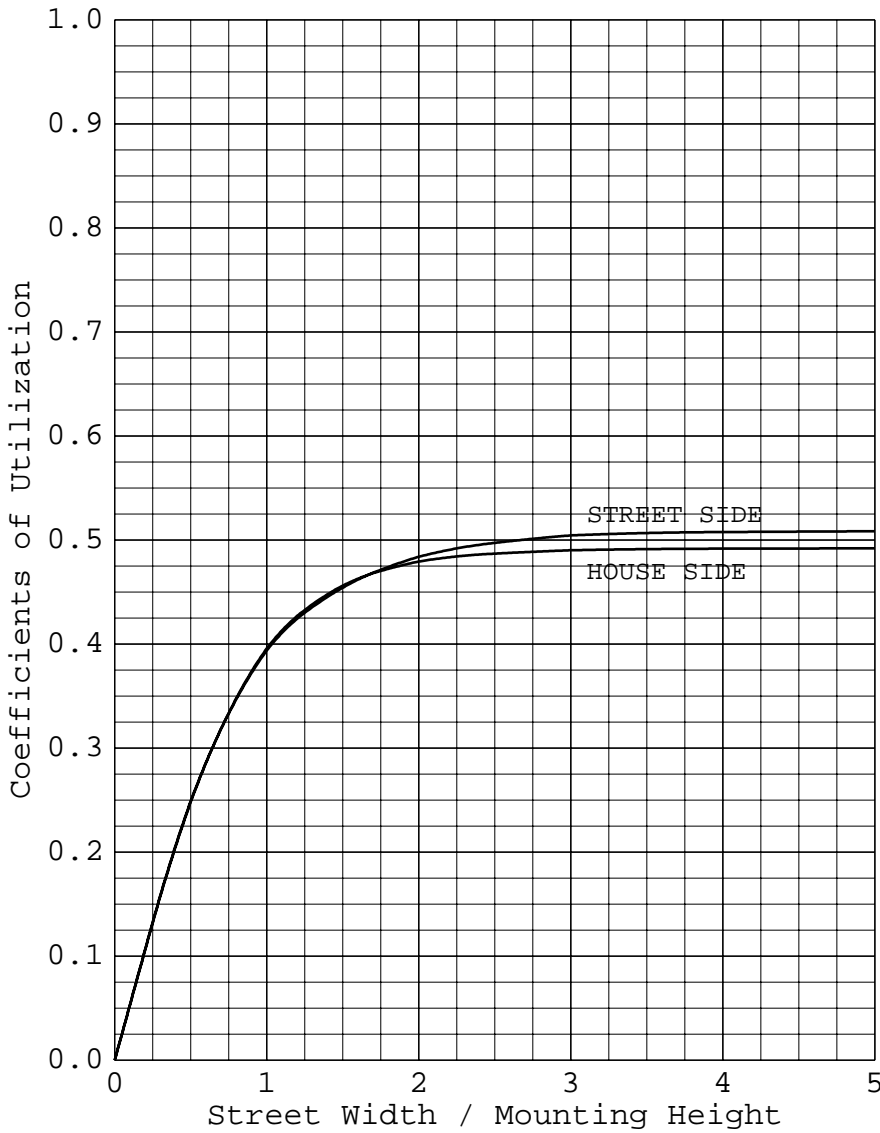
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	135	50.8
DOWNWARD HOUSE SIDE	130	49.2
DOWNWARD TOTAL	265	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	265	100.0

EFFICACY = 29.9 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		
			B	U	G
Forward	135	50.8			
FL (0° – 30°)	38.4	14.5			
FM (30° – 60°)	72.1	27.2			
FH (60° – 80°)	24.0	9.0			G0
FVH (80° – 90°)	0.2	0.1			G0
Backward	130	49.2			
BL (0° – 30°)	37.8	14.3	B0		
BM (30° – 60°)	71.9	27.1	B0		
BH (60° – 80°)	20.4	7.7	B0		G0
BVH (80° – 90°)	0.2	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	265	100.0			



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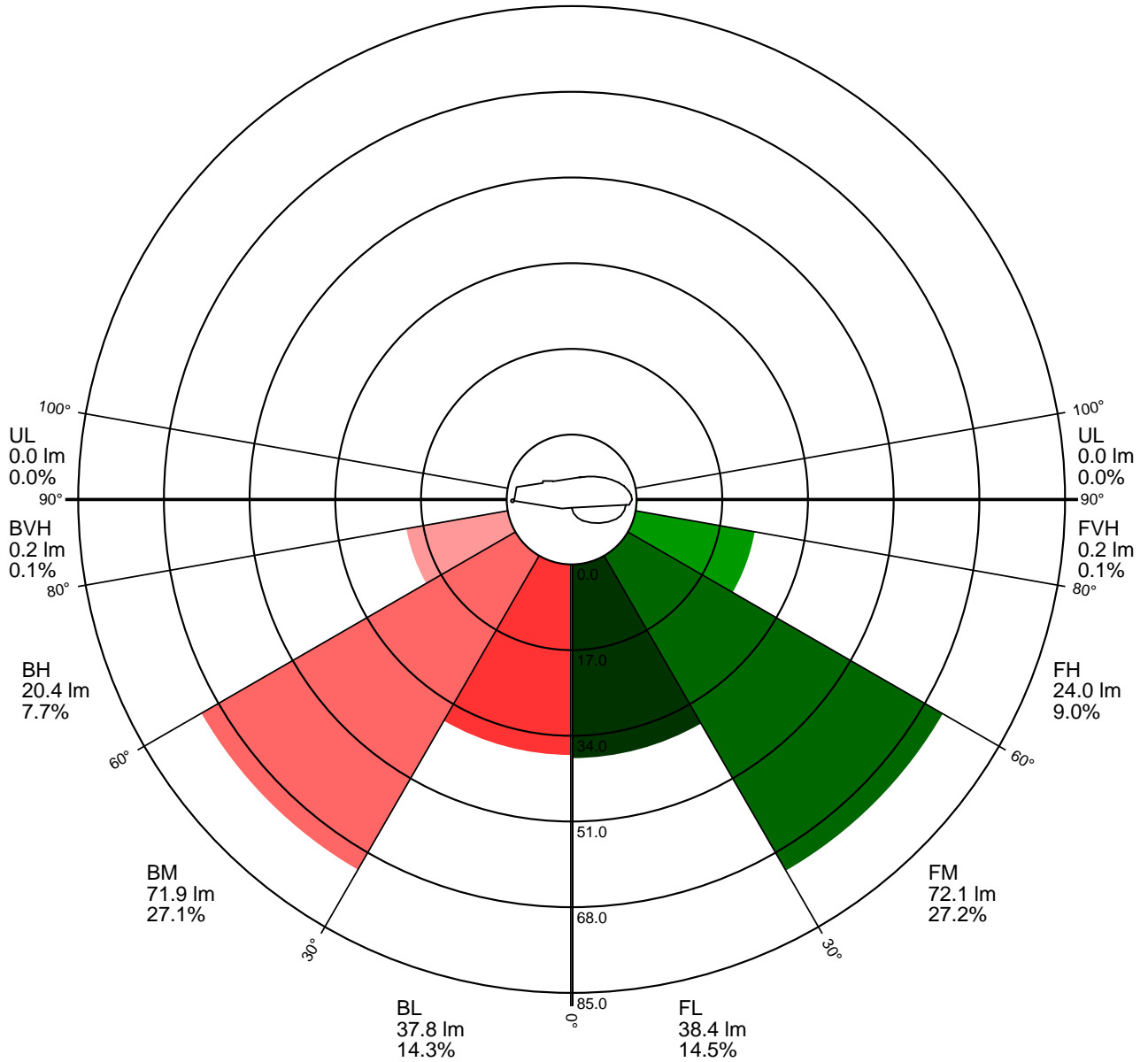
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Zonal Lumen Summary

(Linear scale)

UH
0.0 lm
0.0%





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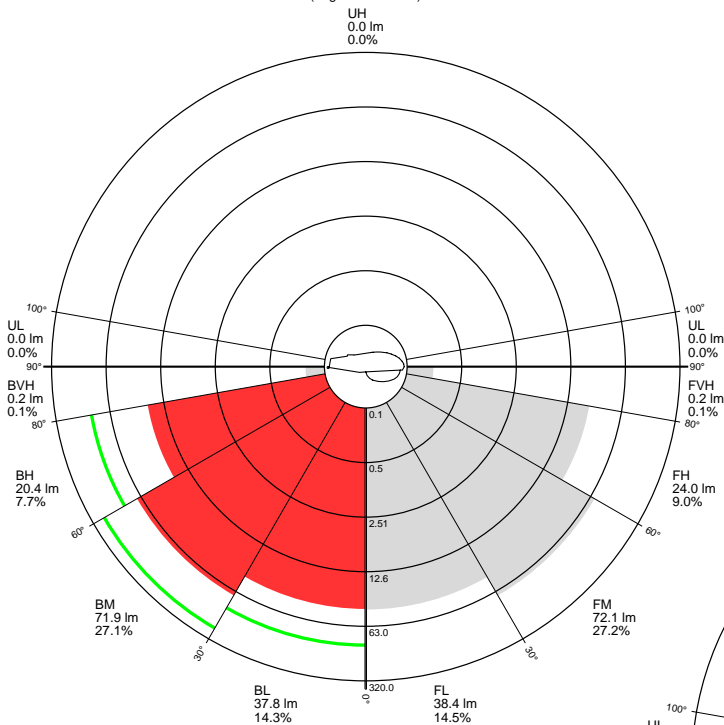
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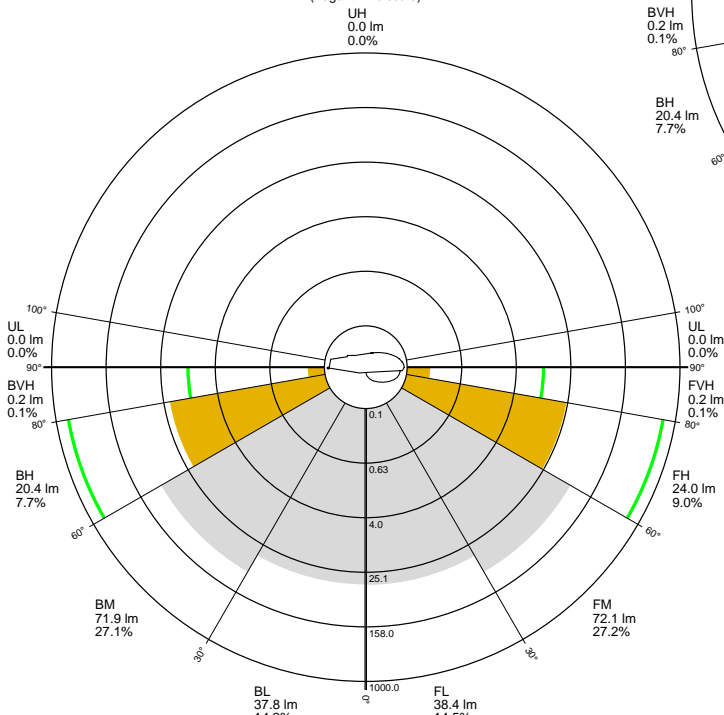
Backlight Rating Details

(Logarithmic scale)



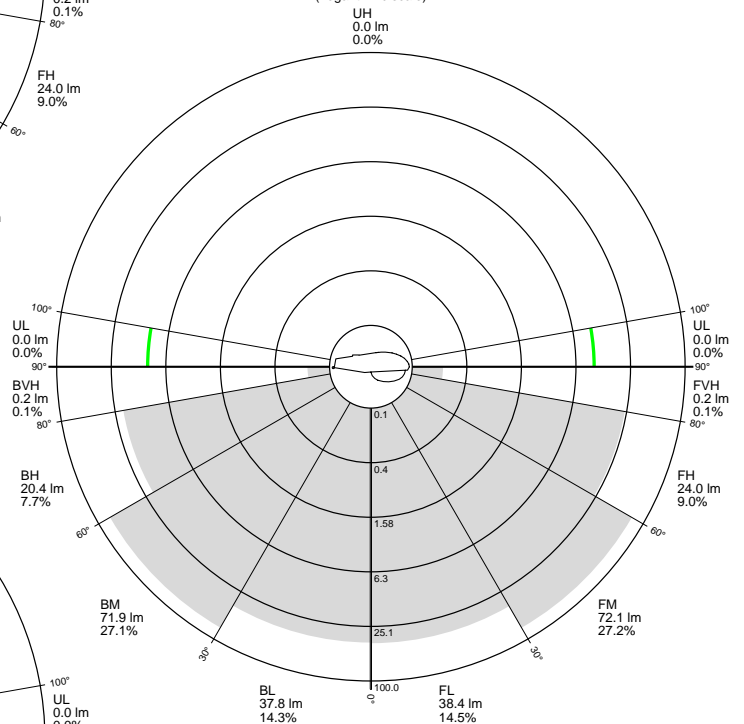
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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CANDELA TABULATION

	LATERAL ANGLE											
	STREET SIDE	0.0	5.0	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.	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	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.	1.	0.	1.	1.	0.	1.	1.	0.	0.	0.
V	82.5	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.
E	80.0	1.	0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
R	77.5	2.	2.	2.	2.	2.	3.	3.	3.	3.	3.	3.
T	75.0	7.	7.	7.	8.	9.	9.	9.	9.	10.	10.	10.
I	72.5	15.	14.	14.	15.	17.	18.	18.	18.	18.	18.	18.
C	70.0	25.	24.	23.	24.	27.	27.	28.	27.	27.	28.	28.
A	67.5	34.	32.	30.	31.	34.	35.	35.	36.	38.	40.	39.
L	65.0	38.	35.	32.	33.	38.	40.	39.	40.	42.	44.	43.
	62.5	35.	36.	35.	37.	43.	45.	45.	45.	45.	44.	45.
A	60.0	35.	37.	37.	41.	47.	49.	51.	50.	47.	44.	47.
N	57.5	39.	39.	38.	43.	47.	50.	53.	52.	49.	49.	51.
G	55.0	46.	43.	38.	40.	45.	48.	51.	52.	52.	54.	55.
L	52.5	52.	47.	39.	39.	43.	48.	51.	54.	57.	60.	57.
E	50.0	53.	48.	42.	45.	50.	53.	54.	57.	61.	64.	61.
	47.5	51.	49.	46.	52.	60.	62.	56.	56.	63.	67.	63.
	45.0	52.	52.	50.	55.	66.	70.	63.	62.	69.	74.	68.
	42.5	58.	55.	55.	59.	67.	75.	75.	71.	75.	79.	77.
	40.0	67.	60.	59.	65.	70.	75.	79.	80.	84.	86.	82.
	37.5	73.	67.	63.	68.	77.	80.	82.	87.	92.	93.	90.
	35.0	76.	74.	72.	75.	86.	94.	92.	91.	93.	95.	91.
	30.0	88.	87.	86.	89.	99.	109.	114.	110.	103.	98.	103.
	25.0	95.	95.	88.	91.	100.	111.	111.	111.	112.	115.	110.
	20.0	99.	94.	91.	93.	96.	100.	102.	106.	111.	119.	119.
	17.0<<	91.	90.	90.	94.	103.	110.	117.	122.	119.	116.	113.
	15.0	100.	97.	95.	97.	100.	103.	104.	103.	102.	100.	102.
	10.0	76.	76.	76.	76.	76.	75.	76.	78.	81.	83.	83.
	5.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.
	0.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.

CONE OF MAXIMUM CANDELA

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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.	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	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	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
V 82.5	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
E 80.0	1.	0.	0.	1.	0.	0.	1.	0.	0.	0.	1.
R 77.5	3.	3.	3.	4.	4.	3.	3.	3.	3.	4.	4.
T 75.0	10.	10.	11.	11.	10.	9.	9.	9.	9.	10.	10.
I 72.5	18.	18.	19.	18.	16.	15.	16.	16.	17.	16.	18.
C 70.0	28.	28.	28.	27.	24.	23.	25.	24.	25.	24.	25.
A 67.5	37.	35.	34.	33.	29.	29.	32.	34.	33.	29.	30.
L 65.0	42.	41.	40.	39.	34.	32.	36.	38.	36.	32.	36.
62.5	47.	47.	47.	45.	38.	36.	37.	37.	37.	36.	40.
A 60.0	51.	52.	54.	49.	42.	41.	39.	39.	41.	42.	45.
N 57.5	52.	53.	55.	50.	44.	42.	41.	43.	45.	45.	47.
G 55.0	52.	51.	51.	48.	42.	41.	43.	47.	47.	44.	45.
L 52.5	54.	52.	50.	47.	43.	42.	46.	49.	47.	41.	42.
E 50.0	57.	56.	51.	51.	49.	45.	48.	52.	48.	43.	45.
47.5	60.	57.	59.	61.	55.	49.	51.	55.	52.	48.	54.
45.0	64.	68.	74.	69.	58.	51.	53.	59.	55.	51.	60.
42.5	72.	77.	82.	72.	59.	51.	57.	62.	58.	54.	59.
40.0	79.	81.	81.	75.	61.	57.	64.	65.	63.	60.	60.
37.5	85.	85.	87.	82.	70.	66.	70.	69.	70.	68.	71.
35.0	89.	95.	95.	90.	79.	72.	75.	77.	76.	75.	80.
30.0	110.	112.	111.	102.	84.	81.	86.	83.	88.	85.	84.
25.0	106.	111.	113.	102.	90.	85.	90.	93.	92.	86.	89.
20.0	113.	107.	107.	106.	95.	90.	87.	85.	88.	93.	90.
17.0<<	114.	119.	117.	107.	96.	96.	98.	96.	95.	99.	100.
15.0	107.	108.	100.	91.	84.	86.	87.	87.	90.	93.	90.
10.0	81.	78.	74.	71.	70.	71.	70.	70.	70.	70.	69.
5.0	4.	4.	3.	3.	3.	3.	3.	3.	3.	3.	3.
0.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.

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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	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	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.	1.	0.	1.	1.	0.	0.	0.	0.	0.
V	82.5	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.
E	80.0	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
R	77.5	4.	5.	4.	4.	5.	4.	5.	5.	4.	2.	1.
T	75.0	11.	11.	11.	12.	11.	12.	12.	11.	10.	6.	3.
I	72.5	20.	21.	21.	21.	21.	20.	20.	20.	16.	11.	7.
C	70.0	28.	29.	30.	31.	31.	31.	30.	29.	23.	16.	11.
A	67.5	35.	36.	38.	39.	41.	42.	41.	38.	29.	21.	15.
L	65.0	41.	43.	44.	45.	46.	47.	47.	45.	39.	29.	21.
	62.5	46.	49.	49.	49.	48.	47.	48.	50.	48.	36.	27.
A	60.0	51.	54.	54.	53.	50.	48.	50.	55.	56.	44.	35.
N	57.5	51.	55.	56.	54.	54.	53.	53.	57.	59.	50.	40.
G	55.0	49.	53.	55.	55.	58.	60.	58.	57.	57.	55.	45.
L	52.5	47.	51.	55.	57.	62.	66.	63.	58.	56.	55.	49.
E	50.0	49.	54.	56.	58.	63.	70.	68.	60.	55.	52.	49.
	47.5	58.	61.	58.	57.	65.	72.	70.	58.	53.	57.	60.
	45.0	70.	73.	66.	64.	71.	75.	68.	60.	64.	71.	70.
	42.5	74.	79.	77.	73.	78.	80.	72.	69.	79.	81.	70.
	40.0	74.	81.	81.	80.	84.	85.	82.	80.	85.	82.	75.
	37.5	80.	87.	88.	86.	91.	93.	91.	86.	84.	86.	80.
	35.0	91.	94.	96.	93.	92.	95.	91.	89.	95.	95.	86.
	30.0	100.	108.	109.	109.	102.	96.	99.	109.	112.	105.	91.
	25.0	99.	112.	106.	101.	109.	117.	115.	105.	107.	112.	98.
	20.0	95.	102.	105.	111.	119.	119.	110.	99.	101.	104.	100.
	17.0<<	104.	116.	122.	118.	113.	113.	114.	116.	121.	114.	99.
	15.0	88.	94.	102.	105.	102.	99.	101.	104.	105.	95.	87.
	10.0	67.	65.	68.	73.	77.	79.	79.	75.	70.	65.	65.
	5.0	3.	3.	3.	4.	4.	5.	4.	4.	4.	3.	3.
	0.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

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HUBBELL
Lighting

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

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CATALOG NUMBER: P560105-03030

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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	0.	0.	0.	0.	
145.0	0.	0.	0.	0.	
135.0	0.	0.	0.	0.	
125.0	0.	0.	0.	0.	
115.0	0.	0.	0.	0.	
105.0	0.	0.	0.	0.	
95.0	0.	0.	0.	0.	
92.5	0.	0.	0.	0.	
90.0	0.	0.	0.	0.	
87.5	0.	0.	0.	0.	
85.0	0.	0.	0.	0.	
V 82.5	0.	0.	0.	0.	
E 80.0	0.	0.	0.	0.	
R 77.5	0.	0.	0.	0.	
T 75.0	0.	0.	0.	0.	
I 72.5	1.	0.	0.	0.	
C 70.0	3.	1.	1.	0.	
A 67.5	5.	1.	1.	1.	
L 65.0	10.	1.	1.	0.	
62.5	17.	5.	1.	0.	
A 60.0	24.	13.	5.	1.	
N 57.5	29.	19.	15.	13.	
G 55.0	31.	21.	23.	25.	
L 52.5	36.	25.	31.	37.	
E 50.0	46.	35.	40.	48.	
47.5	54.	41.	48.	56.	
45.0	57.	47.	53.	57.	
42.5	60.	53.	58.	59.	
40.0	65.	57.	63.	71.	
37.5	67.	61.	68.	82.	
35.0	72.	69.	76.	85.	
30.0	83.	84.	85.	87.	
25.0	80.	84.	93.	100.	
20.0	93.	86.	95.	102.	
17.0<<	92.	91.	94.	96.	
15.0	88.	92.	91.	89.	
10.0	67.	71.	75.	77.	
5.0	3.	2.	2.	2.	
0.0	2.	2.	2.	2.	

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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		0
5- 10		3
10- 15		10
15- 20		17
20- 25		21
25- 30		25
30- 35		27
35- 40		26
40- 45		25
45- 50		23
50- 55		21
55- 60		21
60- 65		19
65- 70		15
70- 75		8
75- 80		2
80- 85		0
85- 90		0
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		3
0- 20		30
0- 30		76
0- 40		130
0- 50		178
0- 60		220
0- 70		254
0- 80		265
0- 90		265
0-100		265
0-110		265
0-120		265
0-130		265
0-140		265
0-150		265
0-160		265
0-170		265
0-180		265

Project Number
18.01011



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: 04/24/18

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.