

Project Number
17.03081



HUBBELL
Lighting

Date
12/7/2017

Lab 6
Sphere

Test Sample Description

Catalog Number: P560108-031-30

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:

4:00

Total Operating Time:

66:50

Input Voltage (Volts):

120.2

Input Current (Amps):

0.080

Input Wattage (Watts):

9.6

Ambient Temp (°C):

24.2

Sphere

IES LM-16-93

Test Method:

IES LM-79-08 § 9.1 & 12.1

Preburn Time:

3:00

Time To Stabilize:

1:09

Total Operating Time:

4:09

Input Voltage (Volts):

120.0

Input Current (Amps):

0.080

Input Wattage (Watts):

9.5

Ambient Temp (°C):

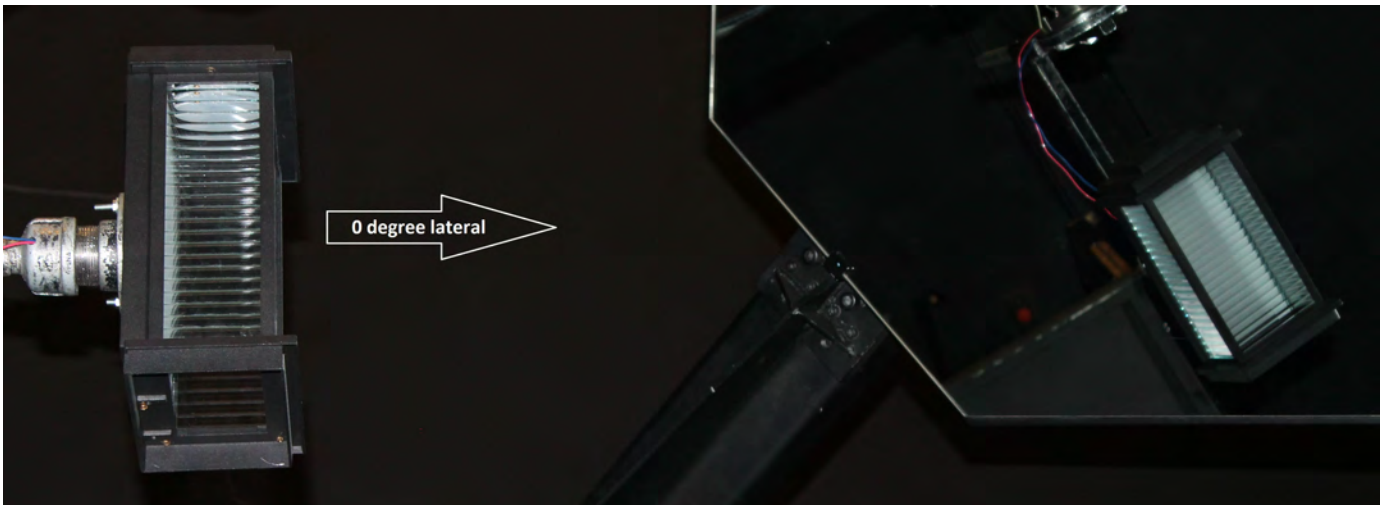
24.0

PF @ 120V:

0.992

THD @ 120V (%):

12.1



Hubbell Lighting, Inc.

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Greenville, SC 29607
www.hubbelllighting.com

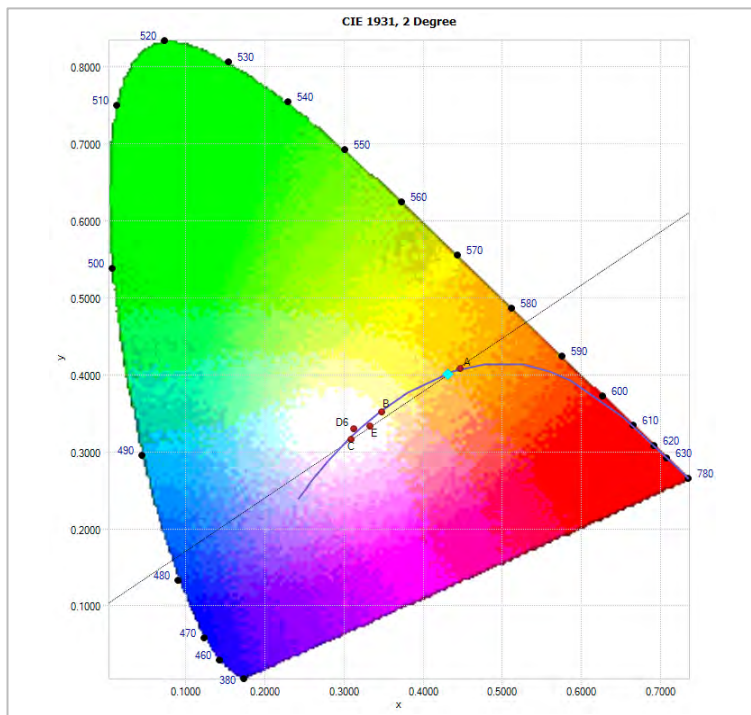
Checked (sphere): B.LEE
Checked (photometry): M.ELLMANN
Approved: P. McCARTHY



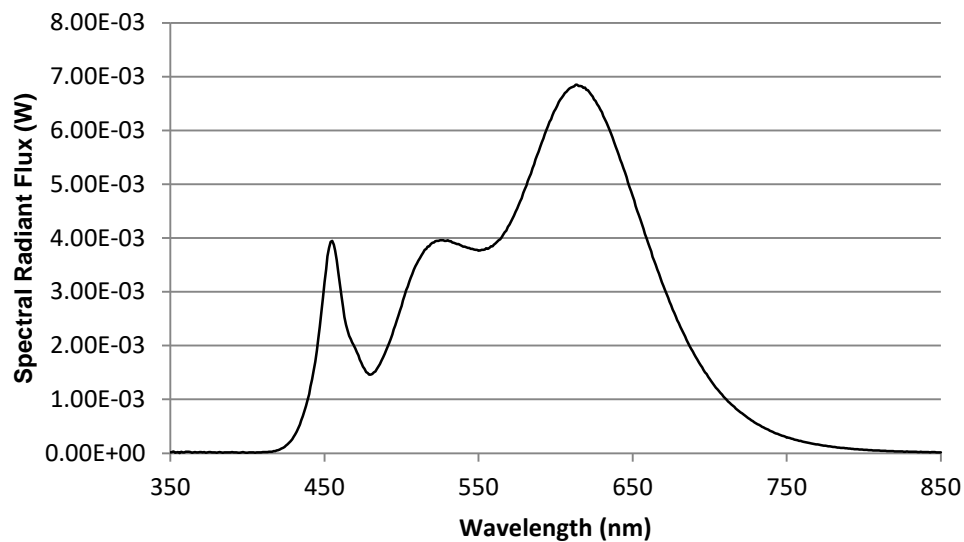
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 Lamp Cat#: 93070270-3330
 Lamp Desc: 20 - 3000K LEDs

Efficacy: 34.1 LPW S/P Ratio: 1.5 LM/LM

Chromaticity Diagram

Spectral Results

Name	Value	Unit
Φ	1.07	watts
$\Phi(v)$	324	lumens
$\Phi(v')$	489	lm'
Chrom x	0.4314	
Chrom y	0.401	
Chrom u	0.2483	
Chrom v	0.3462	
Duv	0.0005	
Chrom u'	0.2483	
Chrom v'	0.5193	
CCT	3068	K
Purity	49.9	%
λ (dom)	582.7	nm
FWHM	157.7	nm
λ (peak)	613.6	nm
λ (center)	587.0	nm
λ (centroid)	585.7	nm
SDCM	Cool White	
RA	95	
Corr. Coef.	0.000479321	
Correlation	0.0054	
R1	98.3	
R2	99.2	
R3	97.0	
R4	99.6	
R5	98.8	
R6	93.7	
R7	90.5	
R8	81.1	
R9	58.1	
R10	98.6	
R11	93.4	
R12	85.2	
R13	99.4	
R14	98.9	

Spectral Distribution of Radiant Flux


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LUMINAIRE: Small, Single Module LED Wall Lantern

LAMP: 20- 3000K LED

MOUNTING: Wall

REFRACTOR: Clear, Ribbed

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

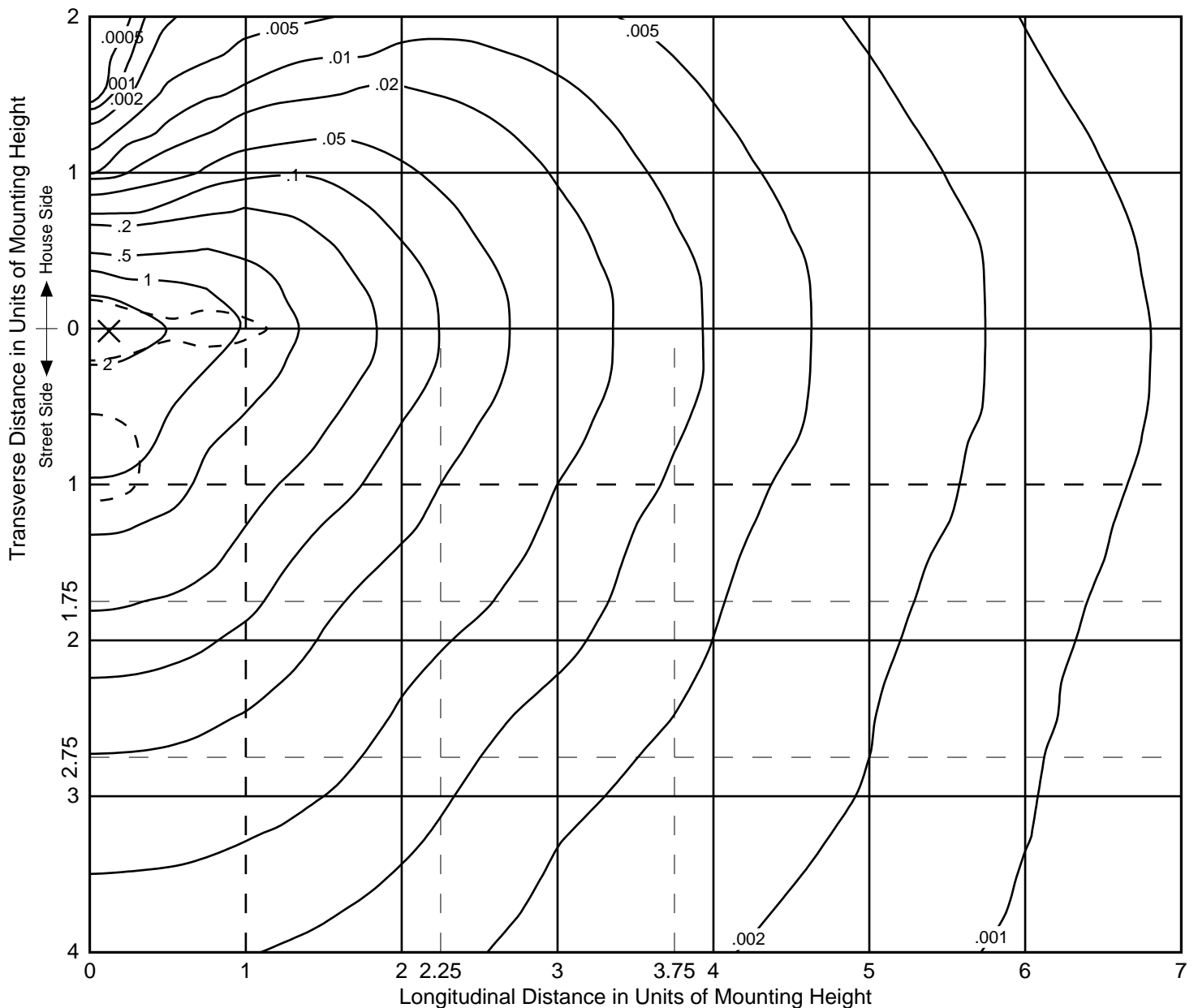
Values based on 6.5-foot mounting height

IES Classification: (does not classify)

Cutoff Classification (deprecated): Semicutoff

--- 1/2 Maximum Candela trace

× Maximum Candela point





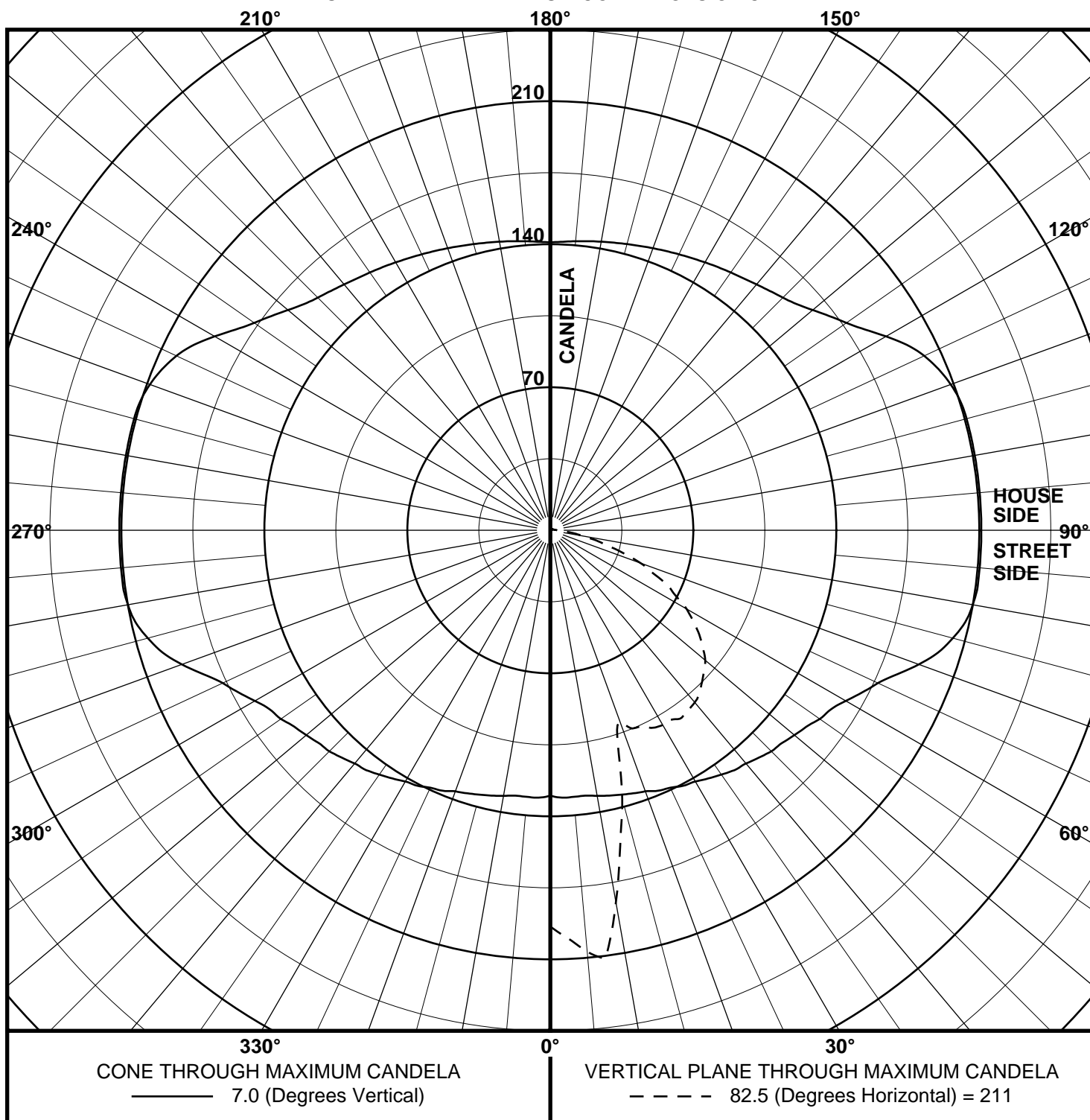
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

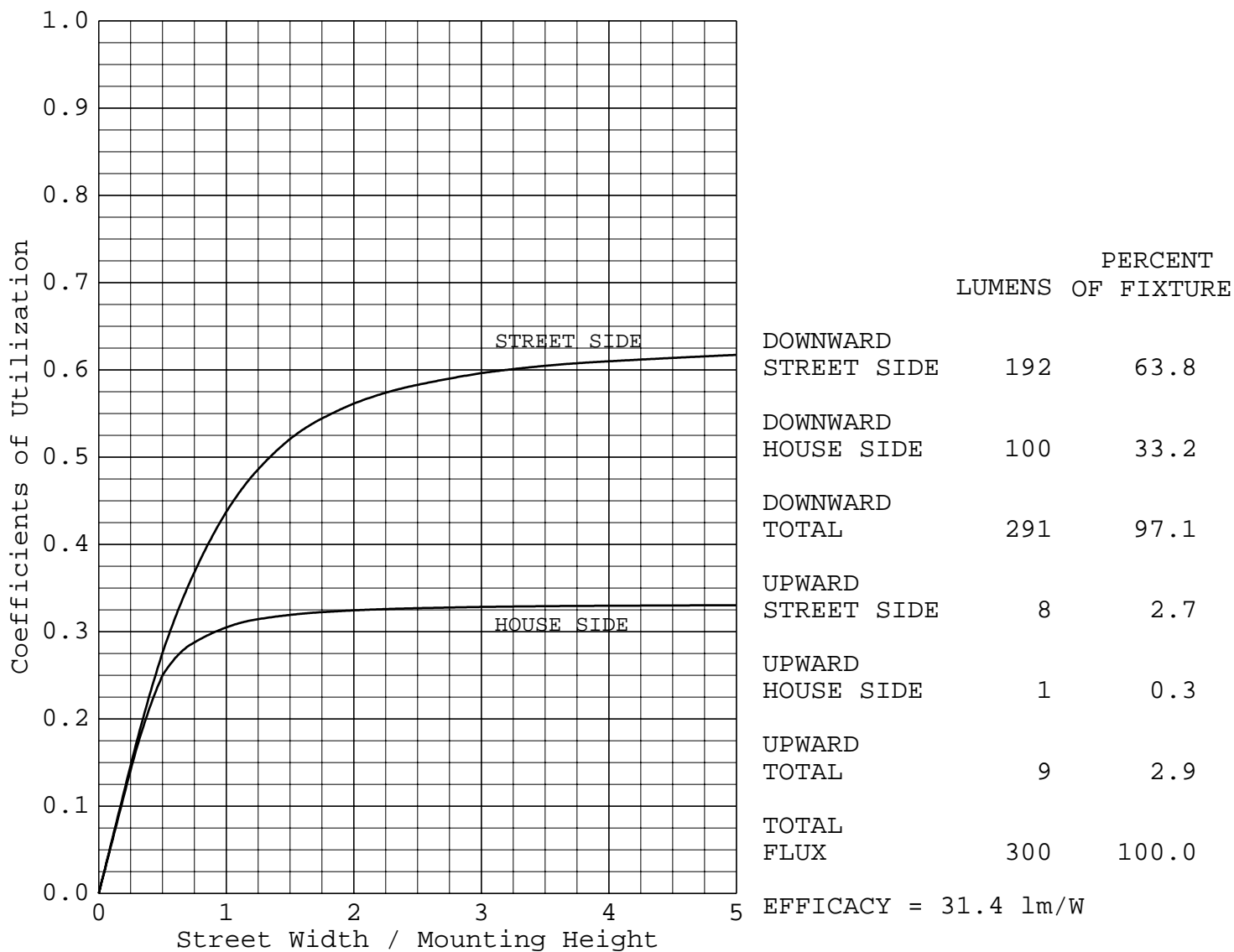




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



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		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		192	63.8			
FL	(0° – 30°)	43.9	14.6			
FM	(30° – 60°)	98.4	32.8			
FH	(60° – 80°)	41.7	13.9			G0
FVH	(80° – 90°)	7.5	2.5			G0
Backward		100	33.2			
BL	(0° – 30°)	36.8	12.3	B0		
BM	(30° – 60°)	44.8	14.9	B0		
BH	(60° – 80°)	16.4	5.5	B0		G0
BVH	(80° – 90°)	1.8	0.6			G0
Upward		9	2.9			
UL	(90° – 100°)	4.1	1.4		U1	
UH	(100° – 180°)	4.7	1.6		U1	
Trapped Light		0	0.0			
Total Flux		300	100.0			



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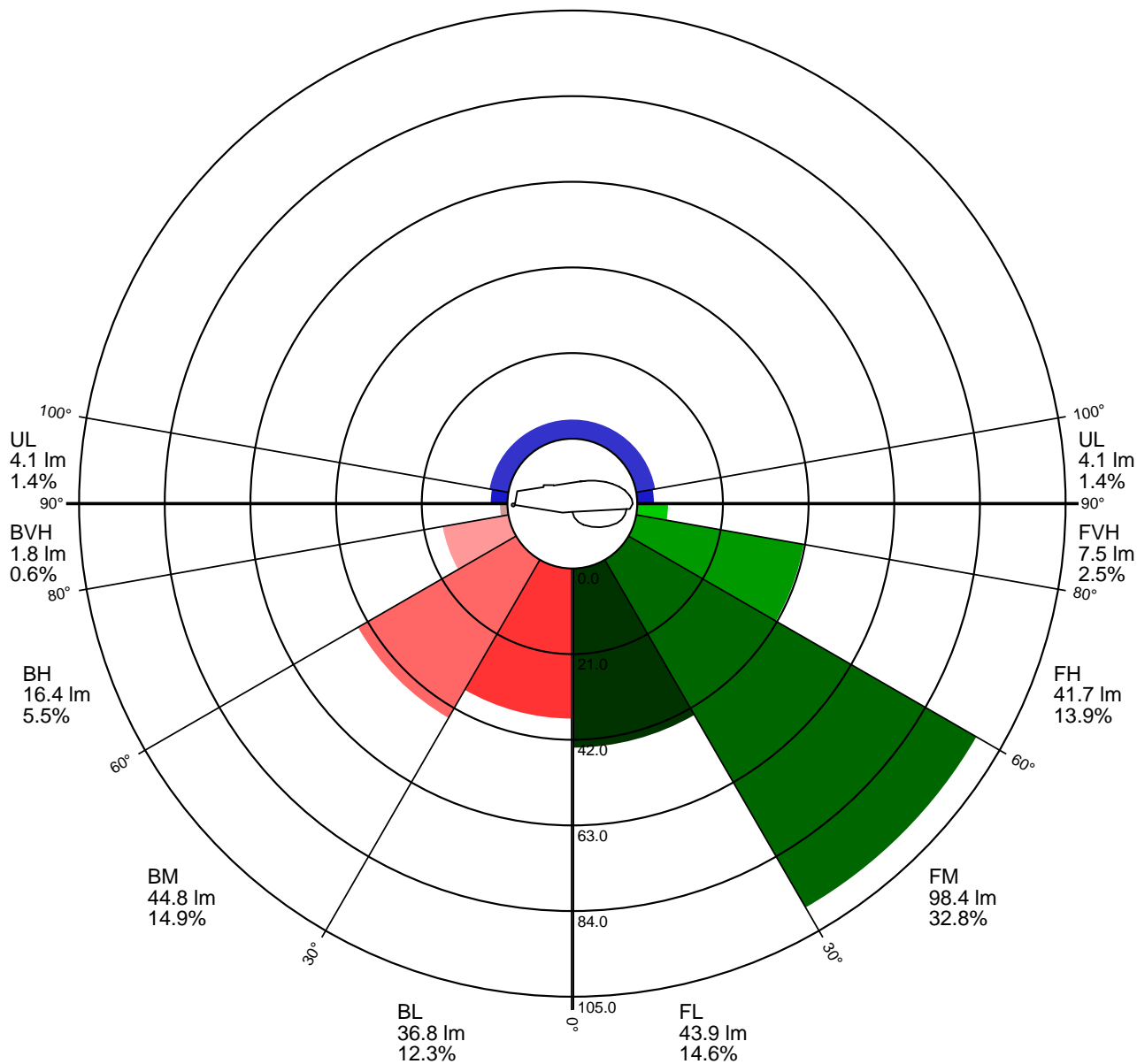
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Zonal Lumen Summary

(Linear scale)

UH
4.7 lm
1.6%





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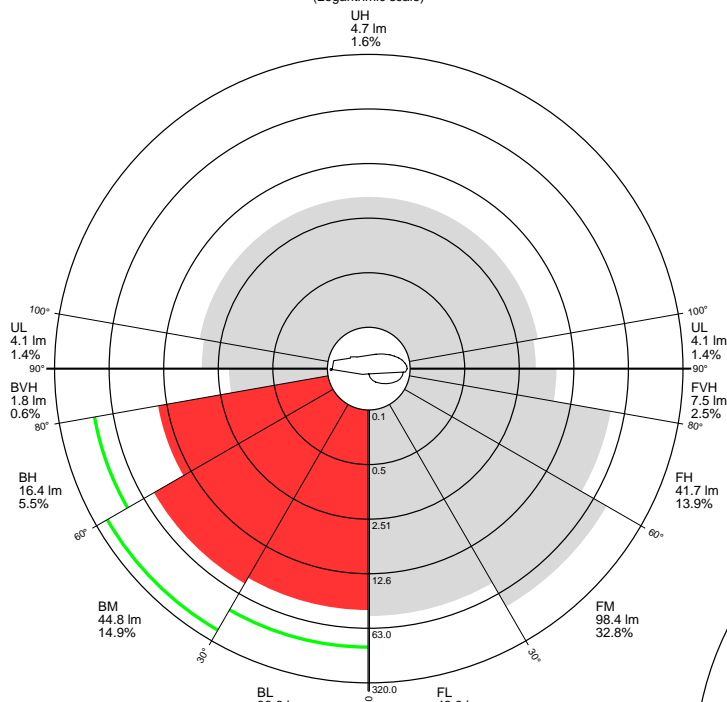
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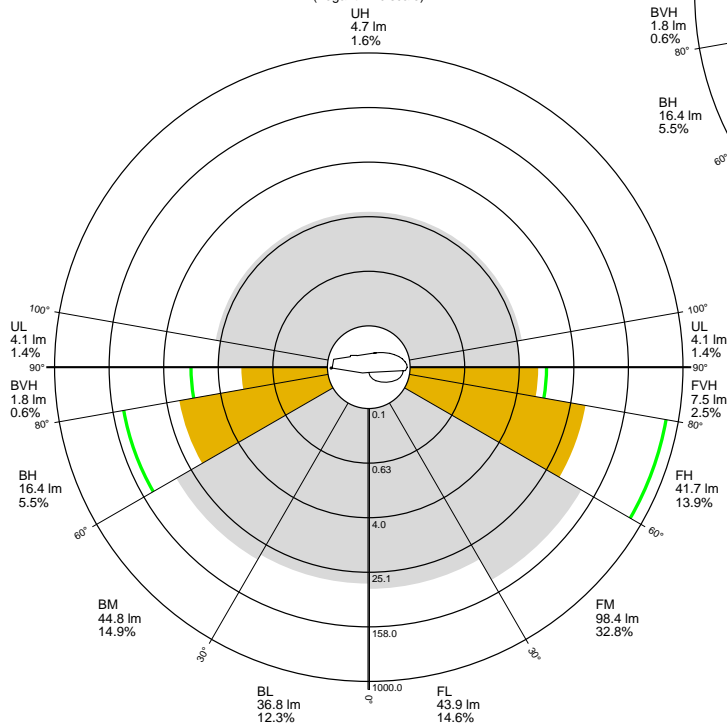
Backlight Rating Details

(Logarithmic scale)



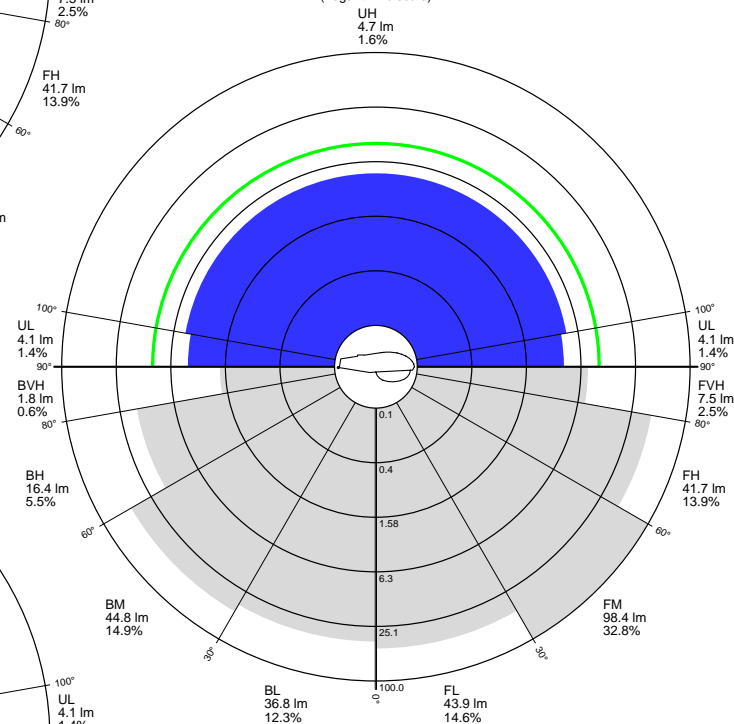
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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CANDELA TABULATION

	STREET	LATERAL ANGLE										
		SIDE	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	125.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	115.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
	105.0	6.	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.
	95.0	11.	11.	11.	11.	11.	10.	10.	10.	9.	9.	9.
	92.5	13.	13.	13.	12.	12.	12.	12.	11.	11.	10.	10.
	90.0	15.	15.	15.	15.	14.	14.	14.	13.	13.	12.	12.
	87.5	18.	18.	17.	17.	17.	17.	16.	16.	15.	14.	14.
	85.0	21.	21.	21.	20.	20.	20.	19.	19.	18.	17.	17.
	82.5	24.	24.	24.	24.	23.	23.	22.	22.	21.	20.	20.
	80.0	28.	28.	28.	28.	27.	27.	26.	25.	25.	24.	23.
	77.5	33.	33.	32.	32.	32.	31.	31.	30.	29.	29.	28.
	75.0	38.	38.	38.	38.	37.	37.	36.	35.	35.	34.	33.
	72.5	45.	44.	44.	44.	44.	43.	42.	42.	41.	40.	39.
	70.0	51.	51.	51.	51.	51.	50.	49.	48.	47.	46.	44.
	67.5	59.	58.	58.	58.	57.	56.	56.	55.	53.	52.	50.
	65.0	64.	64.	64.	64.	63.	62.	61.	60.	59.	57.	56.
	62.5	70.	70.	69.	69.	69.	68.	67.	66.	65.	63.	62.
	60.0	76.	76.	76.	75.	75.	75.	74.	73.	71.	70.	69.
	57.5	83.	83.	82.	82.	82.	81.	81.	79.	79.	77.	75.
	55.0	89.	89.	89.	89.	89.	88.	87.	86.	84.	83.	81.
	52.5	95.	95.	95.	95.	94.	94.	93.	92.	91.	89.	87.
	50.0	100.	101.	100.	100.	100.	100.	99.	98.	96.	94.	92.
	47.5	106.	106.	106.	106.	105.	105.	104.	103.	101.	99.	96.
	45.0	110.	110.	110.	110.	109.	109.	108.	106.	105.	102.	99.
	42.5	113.	113.	112.	112.	112.	111.	110.	109.	107.	104.	102.
	40.0	114.	114.	114.	114.	113.	113.	112.	110.	108.	106.	103.
37.5	114.	114.	114.	114.	113.	112.	111.	110.	108.	105.	103.	
35.0	112.	112.	112.	111.	111.	110.	110.	108.	107.	105.	102.	
30.0	107.	106.	106.	106.	106.	105.	105.	104.	103.	102.	100.	
25.0	99.	100.	99.	99.	99.	99.	98.	98.	97.	97.	96.	
20.0	92.	92.	92.	92.	92.	92.	93.	93.	93.	93.	93.	
15.0	85.	84.	85.	84.	84.	84.	83.	82.	81.	81.	81.	
10.0	113.	113.	113.	113.	114.	115.	115.	116.	117.	118.	120.	
7.0<<	130.	131.	131.	131.	132.	133.	134.	135.	136.	138.	139.	
5.0	144.	144.	144.	145.	145.	145.	146.	146.	147.	148.	149.	
0.0	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	

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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	125.0	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	115.0	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	105.0	5.	5.	4.	4.	4.	4.	4.	4.	3.	3.	3.
	95.0	8.	8.	8.	7.	7.	7.	7.	6.	6.	6.	6.
	92.5	10.	9.	9.	9.	8.	8.	8.	7.	7.	7.	7.
	90.0	11.	11.	11.	10.	10.	9.	9.	9.	9.	9.	8.
	87.5	14.	13.	12.	12.	12.	11.	11.	11.	11.	10.	10.
	85.0	16.	16.	15.	14.	14.	13.	13.	13.	13.	12.	12.
	82.5	19.	19.	18.	17.	16.	16.	15.	15.	15.	14.	14.
	80.0	23.	22.	21.	20.	19.	18.	18.	17.	17.	17.	17.
	77.5	27.	26.	25.	24.	23.	21.	20.	20.	20.	20.	20.
	75.0	32.	31.	29.	28.	26.	25.	24.	23.	23.	23.	24.
	72.5	38.	36.	34.	32.	30.	28.	27.	27.	27.	27.	28.
	70.0	43.	41.	39.	37.	35.	33.	32.	31.	31.	32.	33.
	67.5	49.	46.	45.	42.	39.	37.	36.	36.	36.	36.	37.
	65.0	54.	52.	49.	47.	44.	42.	41.	40.	40.	41.	42.
	62.5	60.	58.	55.	52.	50.	47.	46.	45.	45.	45.	46.
	60.0	67.	64.	62.	58.	55.	52.	50.	49.	49.	50.	51.
	57.5	73.	70.	67.	63.	60.	57.	55.	53.	53.	53.	55.
	55.0	79.	75.	72.	68.	64.	61.	58.	57.	56.	57.	58.
	52.5	84.	81.	77.	72.	68.	65.	63.	61.	60.	60.	62.
	50.0	89.	85.	81.	76.	72.	69.	66.	64.	63.	64.	65.
	47.5	93.	89.	84.	80.	76.	72.	69.	67.	66.	67.	68.
	45.0	96.	92.	87.	83.	78.	75.	72.	70.	69.	69.	70.
	42.5	98.	94.	90.	85.	81.	78.	75.	73.	72.	72.	73.
	40.0	99.	95.	91.	87.	84.	81.	78.	76.	75.	75.	75.
37.5	99.	96.	93.	89.	86.	83.	80.	79.	77.	77.	77.	
35.0	99.	97.	94.	91.	88.	85.	83.	81.	80.	79.	79.	
30.0	98.	96.	93.	91.	89.	87.	85.	84.	82.	81.	81.	
25.0	94.	93.	91.	90.	89.	87.	85.	84.	82.	81.	80.	
20.0	92.	92.	91.	90.	89.	87.	85.	82.	79.	77.	76.	
15.0	81.	82.	84.	87.	92.	98.	103.	106.	108.	107.	106.	
10.0	122.	124.	126.	129.	131.	134.	137.	140.	143.	145.	146.	
7.0<<	141.	142.	144.	146.	148.	149.	151.	153.	154.	156.	158.	
5.0	150.	151.	152.	153.	155.	157.	159.	161.	164.	166.	170.	
0.0	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	

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CANDELA TABULATION

	STREET	SIDE	LATERAL ANGLE									
		55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5	75.0	77.5	80.0
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	1.	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.
	145.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	135.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	125.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	115.0	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
	105.0	3.	3.	3.	3.	3.	2.	2.	2.	2.	1.	1.
	95.0	6.	6.	5.	5.	4.	4.	4.	3.	3.	3.	2.
	92.5	7.	6.	6.	6.	5.	5.	4.	4.	4.	3.	3.
	90.0	8.	8.	7.	7.	6.	6.	5.	5.	5.	4.	4.
	87.5	10.	9.	9.	8.	8.	7.	7.	6.	6.	6.	6.
	85.0	12.	11.	11.	10.	10.	9.	9.	8.	8.	8.	8.
	82.5	14.	14.	13.	13.	12.	12.	11.	11.	11.	11.	11.
	80.0	17.	17.	17.	16.	15.	15.	15.	15.	15.	16.	16.
	77.5	20.	21.	20.	20.	20.	19.	19.	19.	20.	20.	22.
	75.0	25.	25.	25.	25.	24.	24.	24.	25.	26.	27.	28.
	72.5	29.	29.	30.	30.	30.	30.	30.	31.	33.	34.	36.
	70.0	34.	34.	35.	35.	35.	35.	36.	37.	39.	41.	44.
	67.5	38.	39.	40.	40.	40.	41.	42.	44.	47.	49.	52.
	65.0	43.	44.	45.	45.	46.	46.	48.	49.	52.	55.	59.
	62.5	48.	49.	50.	51.	51.	52.	54.	56.	59.	63.	66.
	60.0	52.	54.	55.	56.	57.	58.	59.	62.	65.	68.	73.
	57.5	56.	58.	59.	60.	61.	63.	64.	67.	71.	74.	79.
	55.0	60.	62.	63.	65.	66.	67.	69.	72.	76.	80.	85.
	52.5	63.	65.	67.	68.	70.	71.	73.	76.	80.	85.	90.
	50.0	66.	68.	70.	72.	73.	75.	76.	80.	84.	88.	94.
	47.5	69.	71.	73.	75.	76.	77.	79.	83.	87.	92.	97.
	45.0	72.	74.	75.	77.	78.	80.	82.	85.	90.	95.	100.
	42.5	74.	75.	77.	78.	80.	82.	84.	88.	92.	97.	103.
	40.0	76.	77.	78.	79.	81.	83.	85.	89.	94.	99.	105.
37.5	77.	78.	79.	80.	81.	83.	86.	90.	95.	100.	106.	
35.0	79.	79.	79.	80.	81.	83.	86.	91.	96.	101.	107.	
30.0	80.	80.	80.	80.	80.	83.	87.	91.	95.	100.	106.	
25.0	78.	77.	77.	79.	82.	85.	87.	91.	94.	99.	103.	
20.0	76.	77.	78.	79.	80.	82.	84.	86.	89.	92.	96.	
15.0	106.	107.	108.	110.	112.	114.	116.	118.	120.	124.	130.	
10.0	146.	146.	145.	146.	147.	149.	152.	158.	165.	173.	181.	
7.0<<	161.	163.	167.	172.	177.	184.	192.	199.	204.	208.	210.	
5.0	174.	178.	183.	187.	193.	197.	201.	204.	205.	206.	207.	
0.0	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	

CONE OF MAXIMUM CANDELA

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HUBBELL
Lighting

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

REPORT NUMBER: 17.03081

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ISSUE DATE: 12/11/17

PREPARED FOR: PROGRESS

CATALOG NUMBER: P560108-031-30

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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0	0.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.
145.0	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
135.0	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.
125.0	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.
95.0	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.
92.5	3.	3.	2.	2.	2.	2.	2.	1.	1.	1.	1.
90.0	4.	4.	4.	3.	3.	3.	2.	2.	1.	1.	1.
87.5	6.	6.	5.	5.	5.	4.	4.	3.	2.	1.	1.
85.0	8.	8.	8.	8.	8.	6.	5.	4.	2.	2.	1.
V 82.5	12.	12.	12.	12.	11.	9.	8.	5.	3.	2.	1.
E 80.0	16.	17.	17.	17.	17.	13.	11.	7.	3.	2.	1.
R 77.5	23.	23.	23.	23.	23.	18.	14.	10.	4.	2.	1.
T 75.0	29.	30.	31.	30.	30.	24.	19.	12.	5.	3.	1.
I 72.5	38.	39.	39.	39.	39.	31.	24.	15.	6.	3.	2.
C 70.0	47.	47.	48.	48.	47.	38.	29.	18.	7.	3.	2.
A 67.5	54.	56.	57.	57.	56.	44.	34.	22.	8.	3.	2.
L 65.0	63.	64.	65.	65.	64.	51.	38.	25.	10.	4.	2.
62.5	69.	71.	73.	73.	72.	57.	43.	29.	11.	4.	2.
A 60.0	77.	79.	80.	80.	79.	63.	48.	32.	13.	5.	2.
N 57.5	83.	85.	86.	86.	86.	69.	53.	34.	15.	5.	3.
G 55.0	89.	92.	93.	93.	92.	74.	57.	37.	17.	6.	3.
L 52.5	94.	97.	98.	98.	98.	78.	60.	40.	19.	7.	3.
E 50.0	99.	102.	103.	103.	102.	83.	63.	42.	20.	8.	3.
47.5	102.	105.	107.	107.	106.	86.	66.	45.	22.	9.	4.
45.0	105.	108.	110.	110.	110.	89.	69.	47.	24.	11.	5.
42.5	108.	112.	114.	114.	113.	92.	71.	50.	27.	13.	6.
40.0	110.	113.	116.	116.	115.	94.	73.	53.	29.	14.	8.
37.5	111.	115.	118.	118.	117.	97.	74.	55.	33.	16.	10.
35.0	112.	115.	119.	119.	118.	98.	74.	57.	36.	19.	12.
30.0	110.	114.	117.	117.	117.	98.	75.	60.	43.	28.	21.
25.0	106.	111.	113.	113.	113.	97.	78.	58.	50.	46.	42.
20.0	100.	103.	105.	105.	106.	92.	78.	66.	58.	63.	71.
15.0	136.	137.	138.	136.	138.	129.	117.	107.	106.	97.	70.
10.0	185.	186.	186.	186.	186.	186.	160.	152.	150.	139.	128.
7.0<<	211.	211.	211.	211.	211.	211.	202.	177.	161.	154.	149.
5.0	207.	207.	207.	206.	207.	207.	204.	197.	184.	169.	160.
0.0	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.	194.

||
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

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CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE	
165.0 175.0 180.0			
	180.0	0.	0.
	175.0	0.	0.
	165.0	0.	0.
	155.0	0.	0.
	145.0	0.	0.
	135.0	0.	0.
	125.0	0.	0.
	115.0	0.	0.
	105.0	0.	0.
	95.0	0.	0.
	92.5	0.	0.
	90.0	0.	0.
	87.5	0.	0.
	85.0	0.	0.
V	82.5	0.	0.
E	80.0	0.	0.
R	77.5	0.	0.
T	75.0	0.	0.
I	72.5	1.	0.
C	70.0	1.	0.
A	67.5	1.	0.
L	65.0	1.	0.
	62.5	1.	0.
A	60.0	1.	0.
N	57.5	1.	0.
G	55.0	1.	0.
L	52.5	1.	1.
E	50.0	2.	1.
	47.5	2.	1.
	45.0	3.	1.
	42.5	4.	2.
	40.0	5.	4.
	37.5	8.	6.
	35.0	10.	9.
	30.0	20.	16.
	25.0	39.	32.
	20.0	69.	63.
	15.0	63.	61.
	10.0	121.	116.
	7.0<<	145.	141.
	5.0	155.	152.
	0.0	194.	194.

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REPORT NUMBER: 17.03081

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	12
10- 15	14
15- 20	15
20- 25	17
25- 30	19
30- 35	22
35- 40	24
40- 45	25
45- 50	25
50- 55	25
55- 60	23
60- 65	20
65- 70	17
70- 75	13
75- 80	9
80- 85	6
85- 90	4
90- 95	2
95-100	2
100-105	1
105-110	1
110-115	1
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	16
0- 20	45
0- 30	81
0- 40	126
0- 50	176
0- 60	224
0- 70	261
0- 80	282
0- 90	291
0-100	295
0-110	298
0-120	299
0-130	299
0-140	300
0-150	300
0-160	300
0-170	300
0-180	300

Project Number
17.03081



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.

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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.