

Project Number
19.01423



HUBBELL
Lighting

Date
8/5/2019

Photometric Test Report

Lab 1

Test Sample Description

Catalog Number: P560211-031-30

Description: 23" LED Outdoor Sconce w/ White Back Plate and white, Polycarbonate Refractor

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

Preburn Time: 0:45

Time To Stabilize: 0:30

Total Operating Time: 2:15

Input Voltage (Volts): 120.2

Input Current (Amps): 0.184

Input Wattage (Watts): 21.9

Ambient Temp (°C): 26



Hubbell Lighting, Inc.

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

Checked: D. ROBBINS
Approved: P. McCARTHY



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LUMINAIRE: 23" LED Outdoor Sconce w/ White Back Plate and White
Polycarbonate Refractor

LAMP CAT. NO.: BXEN-30G-11M-3A

LAMP: 84- Bridgelux 3000K LEDs

MOUNTING: wall

ABSOLUTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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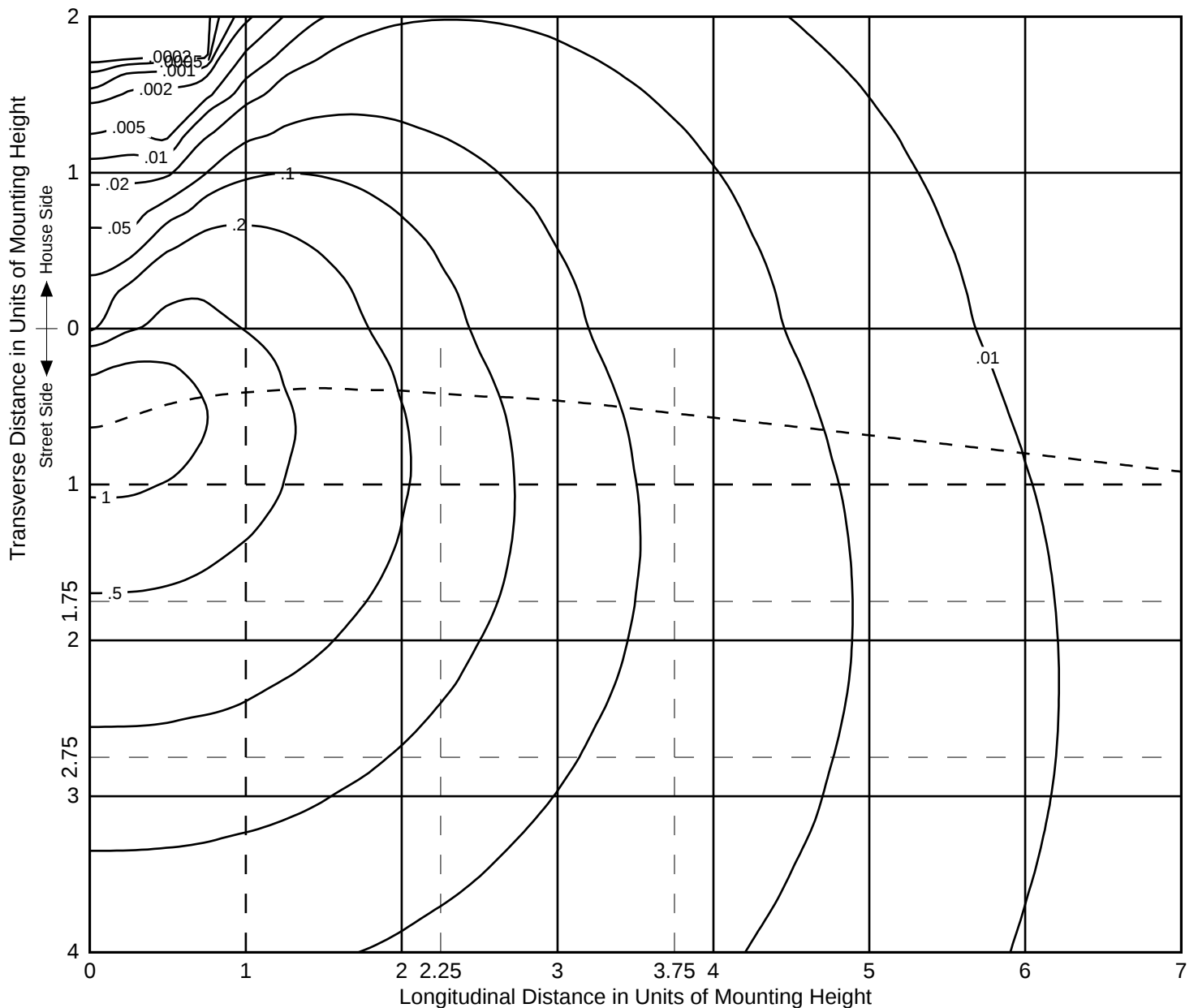
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION Values based on 6-foot mounting height

IES Classification: Medium, Type IV
Cutoff Classification (deprecated): Noncutoff

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





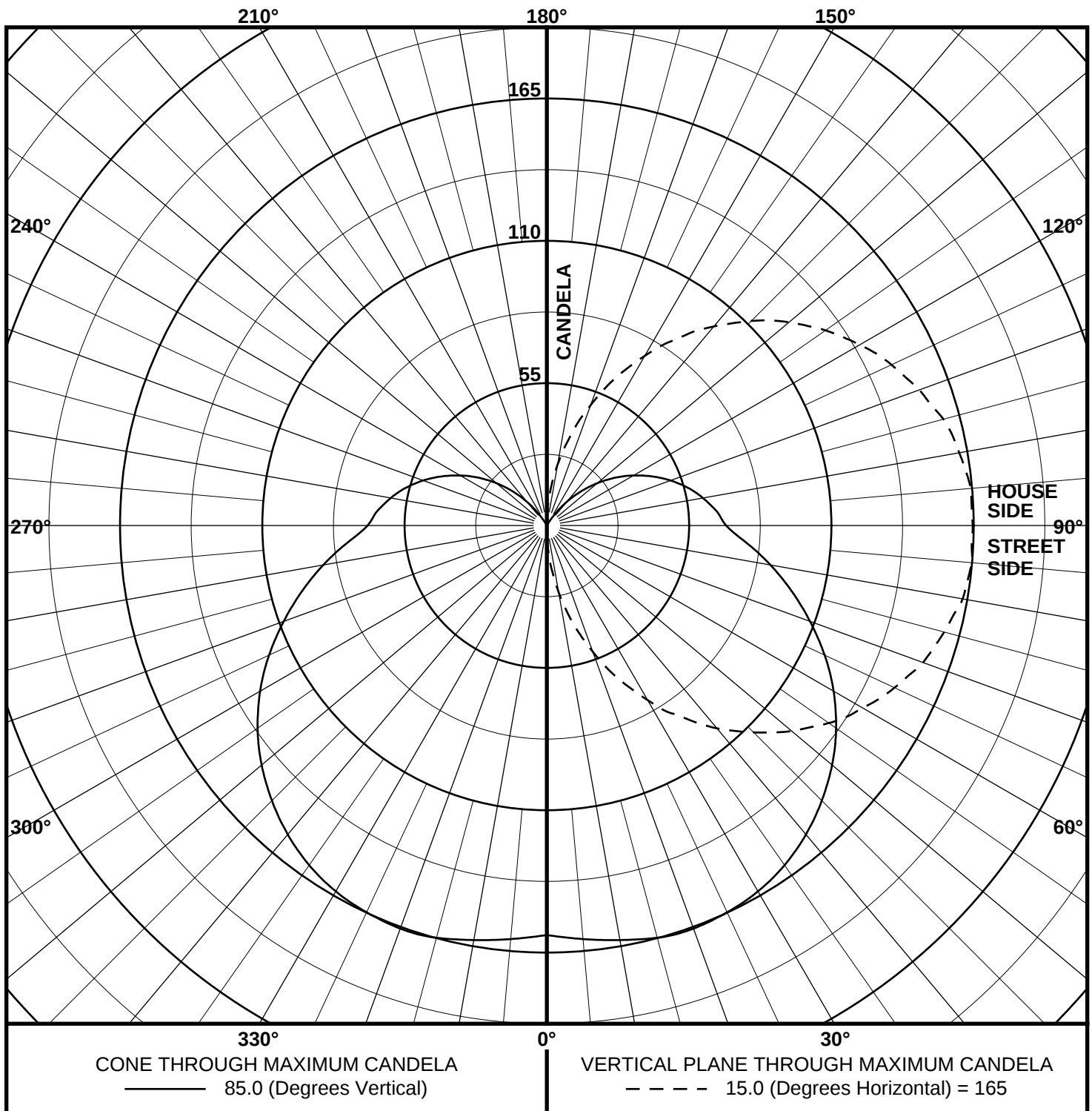
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

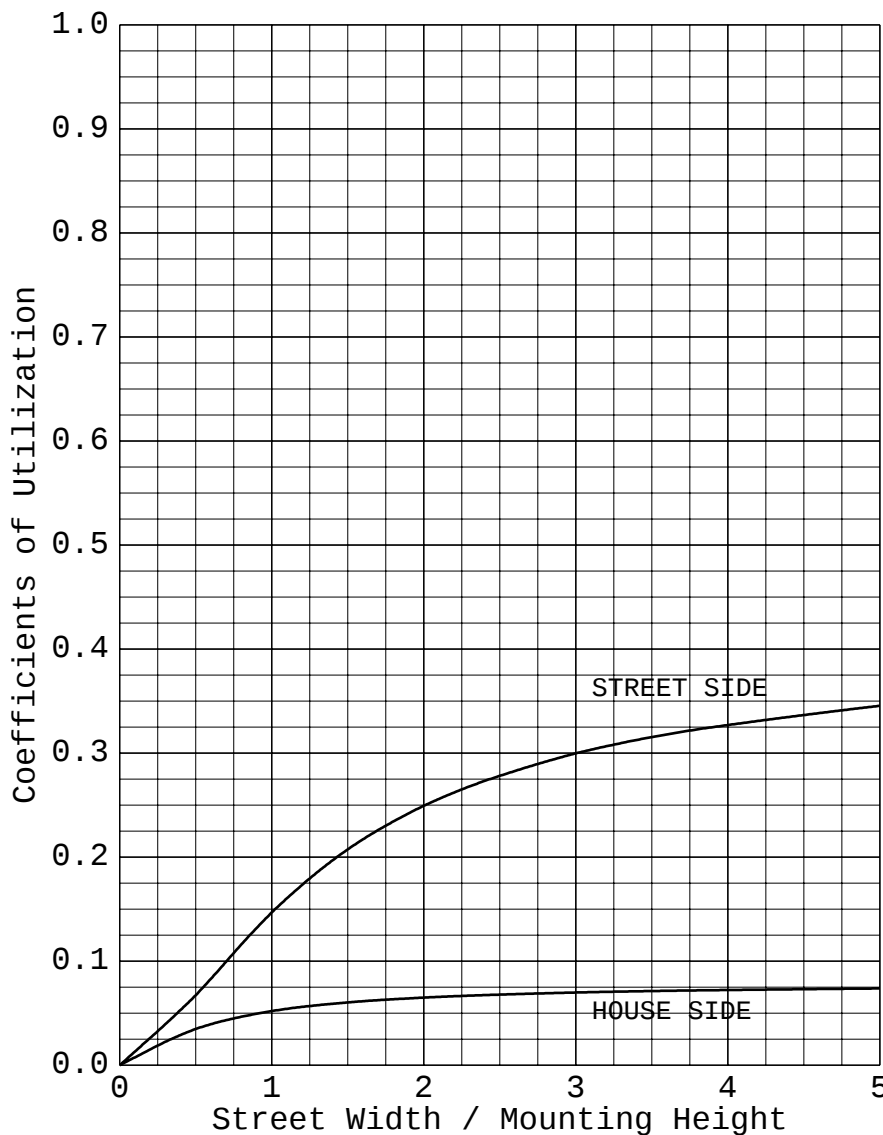




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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	334	42.2
DOWNWARD HOUSE SIDE	65	8.2
DOWNWARD TOTAL	399	50.3
UPWARD STREET SIDE	330	41.6
UPWARD HOUSE SIDE	64	8.0
UPWARD TOTAL	394	49.7
TOTAL FLUX	792	100.0

EFFICACY = 36.2 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 U3 G1		
Zonal Summary			Zone Ratings		
			B	U	G
Forward					
FL	(0° - 30°)	334	42.2		
FM	(30° - 60°)	18.3	2.3		
FH	(60° - 80°)	110.1	13.9		
FVH	(80° - 90°)	131.2	16.6		G0
		74.4	9.4		G1
Backward					
BL	(0° - 30°)	65	8.2		
BM	(30° - 60°)	4.8	0.6		
BH	(60° - 80°)	22.0	2.8		
BVH	(80° - 90°)	24.1	3.0		G0
		13.6	1.7		G1
Upward					
UL	(90° - 100°)	394	49.7		
UH	(100° - 180°)	87.7	11.1		
		306.1	38.6		
Trapped Light					
Total Flux					
			0	0.0	
			792	100.0	



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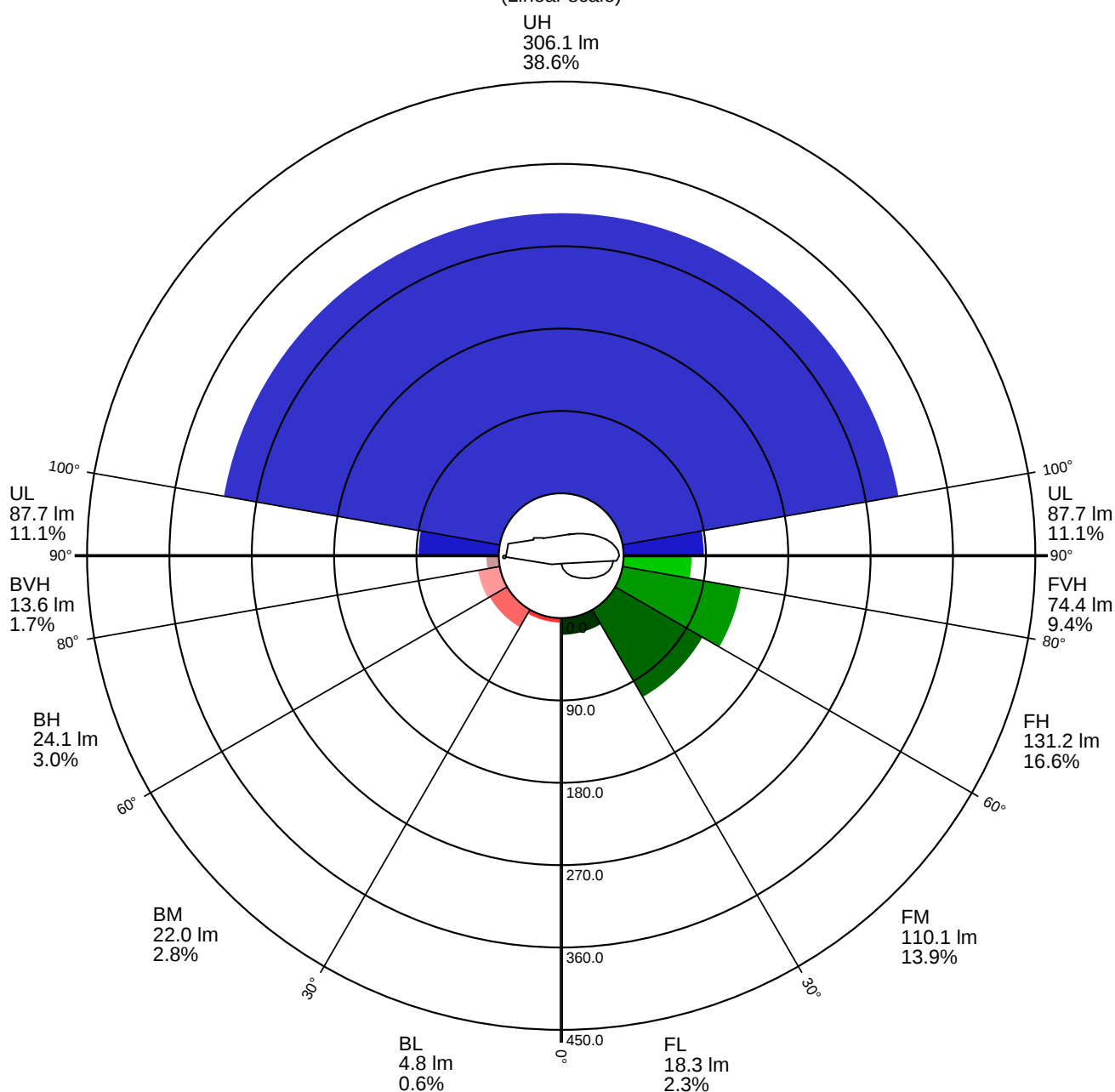
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Zonal Lumen Summary

(Linear scale)





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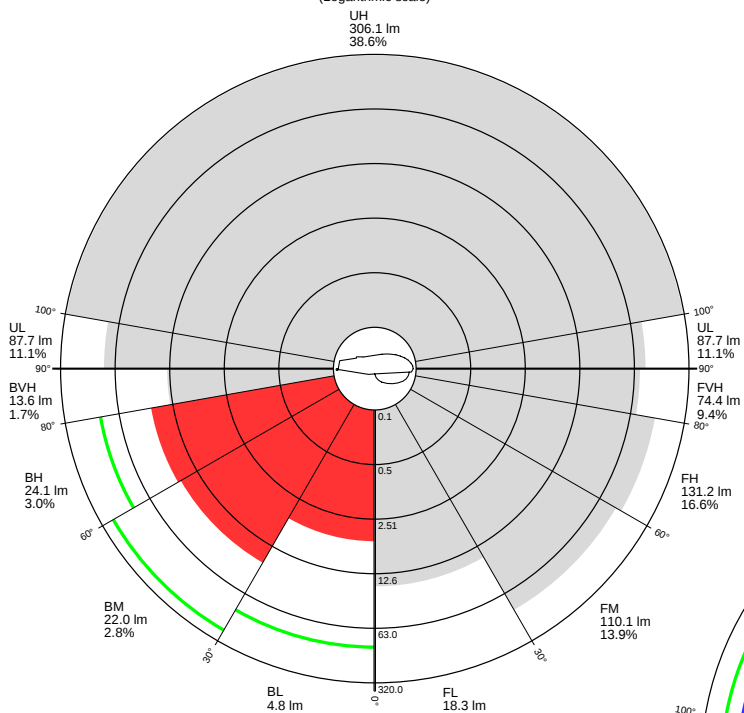
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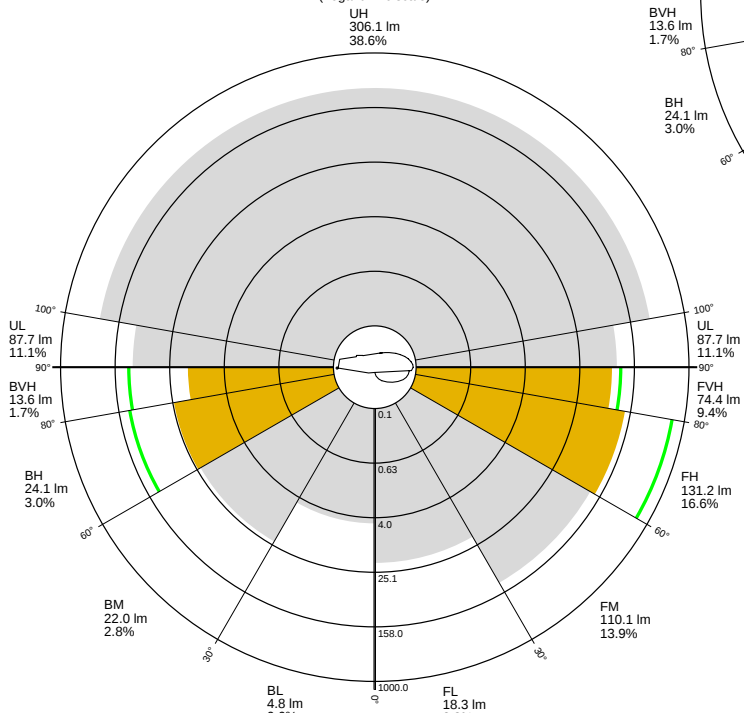
Backlight Rating Details

(Logarithmic scale)



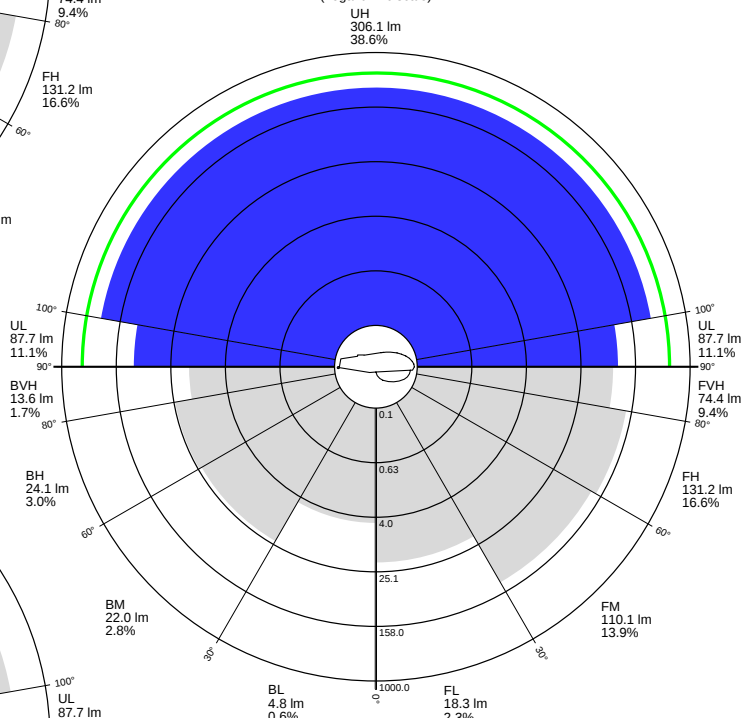
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE										
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
VERTICAL ANGLE	180.0	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.
	175.0	12.	12.	12.	12.	11.	11.	10.	9.	8.	8.	8.
	165.0	36.	36.	37.	36.	36.	33.	31.	27.	23.	19.	18.
	155.0	61.	62.	63.	63.	61.	57.	52.	46.	39.	32.	29.
	145.0	86.	87.	88.	88.	86.	81.	74.	65.	54.	44.	40.
	135.0	109.	110.	112.	112.	109.	102.	93.	81.	68.	55.	49.
	125.0	127.	128.	132.	131.	127.	120.	109.	95.	79.	63.	57.
	115.0	143.	143.	147.	147.	143.	135.	122.	106.	88.	70.	63.
	105.0	153.	154.	159.	158.	154.	145.	132.	114.	95.	75.	67.
	95.0	159.	160.	164.	164.	160.	150.	136.	118.	98.	77.	69.
	92.5	159.	160.	164.	164.	159.	150.	136.	119.	98.	77.	69.
	90.0	160.	161.	165.	165.	161.	151.	137.	119.	98.	78.	69.
	87.5	159.	161.	164.	165.	160.	151.	137.	119.	99.	78.	70.
	85.0<<	158.	160.	165.	165.	160.	150.	137.	119.	98.	78.	69.
	82.5	158.	160.	164.	164.	160.	150.	136.	118.	98.	78.	69.
	80.0	158.	158.	163.	163.	158.	149.	135.	117.	97.	77.	69.
	77.5	156.	156.	161.	161.	157.	148.	134.	117.	97.	77.	68.
	75.0	154.	155.	159.	159.	155.	146.	133.	115.	96.	76.	68.
	72.5	153.	153.	157.	157.	153.	144.	131.	114.	95.	76.	68.
	70.0	150.	151.	155.	155.	150.	142.	129.	112.	93.	74.	67.
	67.5	146.	147.	151.	151.	147.	139.	126.	110.	91.	73.	65.
	65.0	144.	145.	148.	148.	145.	136.	124.	108.	90.	72.	64.
	62.5	141.	141.	145.	145.	141.	133.	121.	105.	88.	70.	63.
	60.0	137.	138.	141.	141.	137.	129.	118.	103.	86.	68.	61.
	57.5	134.	134.	138.	137.	134.	126.	115.	100.	84.	67.	60.
	55.0	129.	130.	133.	133.	129.	122.	111.	97.	81.	65.	58.
	52.5	125.	125.	128.	128.	125.	118.	107.	93.	78.	63.	56.
	50.0	120.	121.	124.	123.	120.	113.	103.	90.	76.	61.	54.
	47.5	115.	116.	118.	118.	115.	108.	99.	86.	72.	58.	52.
	45.0	110.	111.	113.	113.	110.	103.	94.	83.	69.	56.	50.
	42.5	105.	105.	108.	107.	105.	98.	90.	79.	66.	53.	48.
40.0	99.	100.	102.	102.	99.	93.	85.	74.	63.	51.	46.	
37.5	94.	94.	96.	96.	94.	88.	81.	70.	59.	48.	43.	
35.0	88.	88.	90.	89.	87.	82.	75.	66.	55.	45.	40.	
32.5	82.	83.	85.	84.	82.	77.	71.	62.	53.	43.	39.	
30.0	76.	76.	78.	77.	75.	71.	65.	57.	48.	39.	35.	
25.0	64.	64.	65.	65.	63.	60.	55.	48.	41.	33.	30.	
20.0	51.	51.	52.	52.	51.	47.	44.	38.	33.	27.	24.	
15.0	39.	38.	39.	39.	38.	36.	33.	29.	25.	21.	19.	
10.0	26.	26.	26.	26.	25.	23.	22.	19.	17.	14.	14.	
5.0	15.	14.	14.	14.	14.	12.	12.	11.	10.	9.	8.	
0.0	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	
PLANE OF MAXIMUM CANDELA												
CONE OF MAXIMUM CANDELA												



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CANDELA TABULATION
HOUSE SIDE

LATERAL ANGLE

95.0 105.0 115.0 125.0 135.0 145.0 155.0 165.0 175.0 180.0

	180.0	5.	5.	5.	5.	5.	5.	5.	5.	5.
	175.0	8.	7.	7.	6.	6.	5.	5.	5.	5.
	165.0	17.	15.	13.	11.	8.	5.	4.	4.	4.
	155.0	28.	24.	20.	15.	10.	6.	4.	4.	3.
	145.0	38.	33.	27.	20.	13.	6.	3.	3.	2.
	135.0	47.	40.	33.	24.	15.	6.	2.	2.	2.
	125.0	54.	46.	37.	27.	16.	5.	1.	0.	0.
	115.0	60.	51.	41.	29.	17.	4.	0.	0.	0.
	105.0	64.	55.	44.	31.	18.	5.	0.	0.	0.
	95.0	66.	56.	45.	32.	19.	5.	0.	0.	0.
	92.5	65.	56.	45.	32.	19.	5.	0.	0.	0.
	90.0	66.	57.	45.	33.	19.	5.	0.	0.	0.
	87.5	66.	57.	45.	33.	19.	5.	0.	0.	0.
	85.0<<	66.	56.	45.	32.	19.	5.	0.	0.	0.
V	82.5	65.	56.	45.	32.	19.	5.	0.	0.	0.
E	80.0	65.	56.	44.	32.	19.	5.	0.	0.	0.
R	77.5	65.	55.	44.	32.	18.	5.	0.	0.	0.
T	75.0	64.	55.	44.	31.	18.	5.	0.	0.	0.
I	72.5	64.	55.	43.	31.	18.	5.	1.	0.	0.
C	70.0	63.	54.	43.	30.	18.	5.	0.	0.	0.
A	67.5	61.	52.	42.	30.	17.	4.	0.	0.	0.
L	65.0	60.	52.	41.	30.	17.	5.	0.	0.	0.
	62.5	59.	51.	40.	29.	17.	5.	0.	0.	0.
A	60.0	58.	49.	39.	28.	17.	5.	0.	0.	0.
N	57.5	56.	49.	39.	28.	17.	6.	1.	1.	0.
G	55.0	55.	47.	38.	27.	16.	5.	1.	1.	1.
L	52.5	53.	46.	36.	26.	16.	5.	1.	1.	1.
E	50.0	51.	44.	36.	26.	16.	6.	1.	1.	1.
	47.5	49.	42.	34.	25.	15.	6.	1.	1.	1.
	45.0	47.	41.	33.	24.	15.	6.	2.	2.	2.
	42.5	45.	39.	31.	23.	15.	6.	2.	2.	2.
	40.0	43.	37.	30.	22.	14.	6.	3.	2.	2.
	37.5	41.	35.	29.	22.	14.	7.	3.	3.	3.
	35.0	38.	33.	27.	20.	13.	6.	3.	3.	2.
	32.5	36.	32.	26.	20.	13.	7.	4.	3.	3.
	30.0	33.	29.	24.	18.	12.	6.	3.	3.	3.
	25.0	29.	25.	21.	16.	11.	7.	4.	4.	4.
	20.0	23.	21.	17.	14.	10.	6.	4.	4.	4.
	15.0	18.	16.	14.	11.	9.	6.	5.	5.	5.
	10.0	13.	12.	10.	9.	7.	6.	5.	5.	5.
	5.0	8.	8.	7.	7.	6.	6.	5.	5.	5.
	0.0	6.	6.	6.	6.	6.	6.	6.	6.	6.

CONE OF MAXIMUM CANDELA

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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 5		0
5- 10		1
10- 15		2
15- 20		4
20- 25		7
25- 30		9
30- 35		13
35- 40		16
40- 45		20
45- 50		24
50- 55		28
55- 60		31
60- 65		35
65- 70		38
70- 75		40
75- 80		42
80- 85		44
85- 90		44
90- 95		44
95-100		44
100-105		42
105-110		40
110-115		37
115-120		34
120-125		31
125-130		27
130-135		24
135-140		20
140-145		16
145-150		12
150-155		9
155-160		6
160-165		4
165-170		2
170-175		1
175-180		0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0- 10		1
0- 20		7
0- 30		23
0- 40		52
0- 50		96
0- 60		155
0- 70		228
0- 80		311
0- 90		399
0-100		486
0-110		569
0-120		640
0-130		699
0-140		742
0-150		770
0-160		786
0-170		792
0-180		792

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Lighting

Date
8/5/2019

Goniophotometer Calibration

Calibration Lamp: GE 1000W, 120V, T6, CL (FEL)

Lamp Number: ITL78966-1000-36

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 07/10/2017

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI Lab 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	10/31/2019
<i>Power Source</i>	Voltage-Regulated House Power	616020002113	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	10/31/2019

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