

Project Number
15.00510



HUBBELL
Lighting

Date
4/7/2015

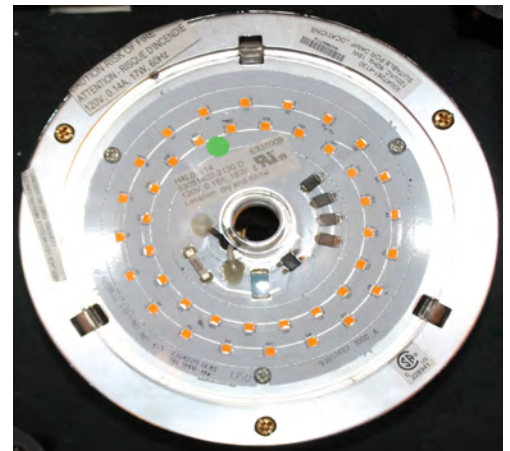
LAB 1

Test Sample Description

Catalog Number: P6069-3130K9
Description: ARRIVE Wall Lantern

Test Method: IES LM-79-08 § 10
Preburn Time: 00:10
Time To Stabilize: 2:09
Total Operating Time: 3:30

Input Voltage (Volts): 120.1
Input Current (Amps): 0.153
Input Wattage (Watts): 17.1
Ambient Temp (°C): 25.1



Hubbell Lighting, Inc.

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

Checked: D. ROBBINS
Approved: M. WASHBURN

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



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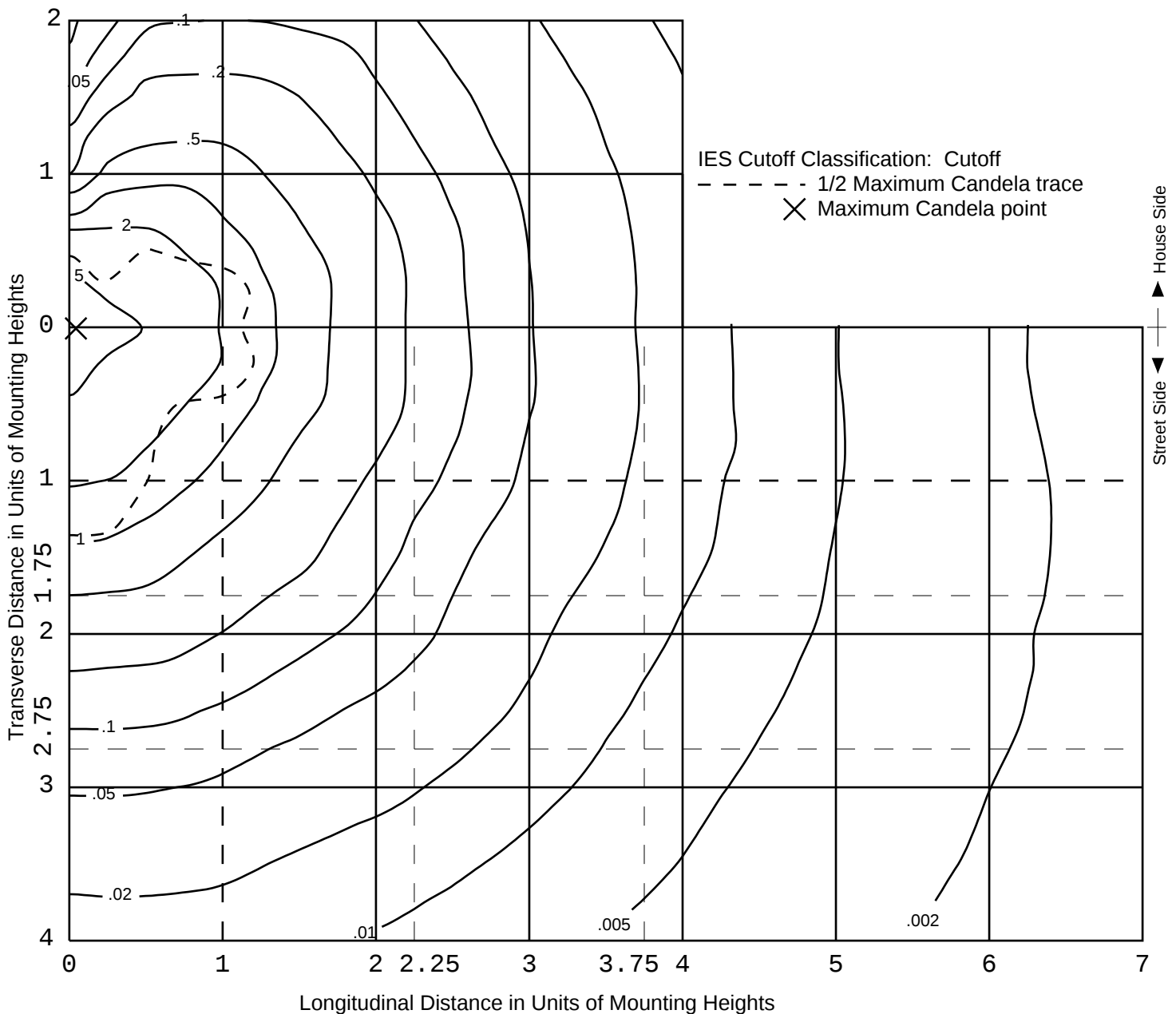
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 6 foot mounting height.

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CATALOG NUMBER: P6069-3130K9
LUMINAIRE: "ARRIVE" Wall Lantern
LAMP CAT. NO.: 93047261-4130 Module
LAMP: 40 - Nichia 3000K
BALLAST: AC / 120V - HAL 17W, 120V module
MOUNTING: Wall
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
REFRACTOR: Clear Seeded Glass





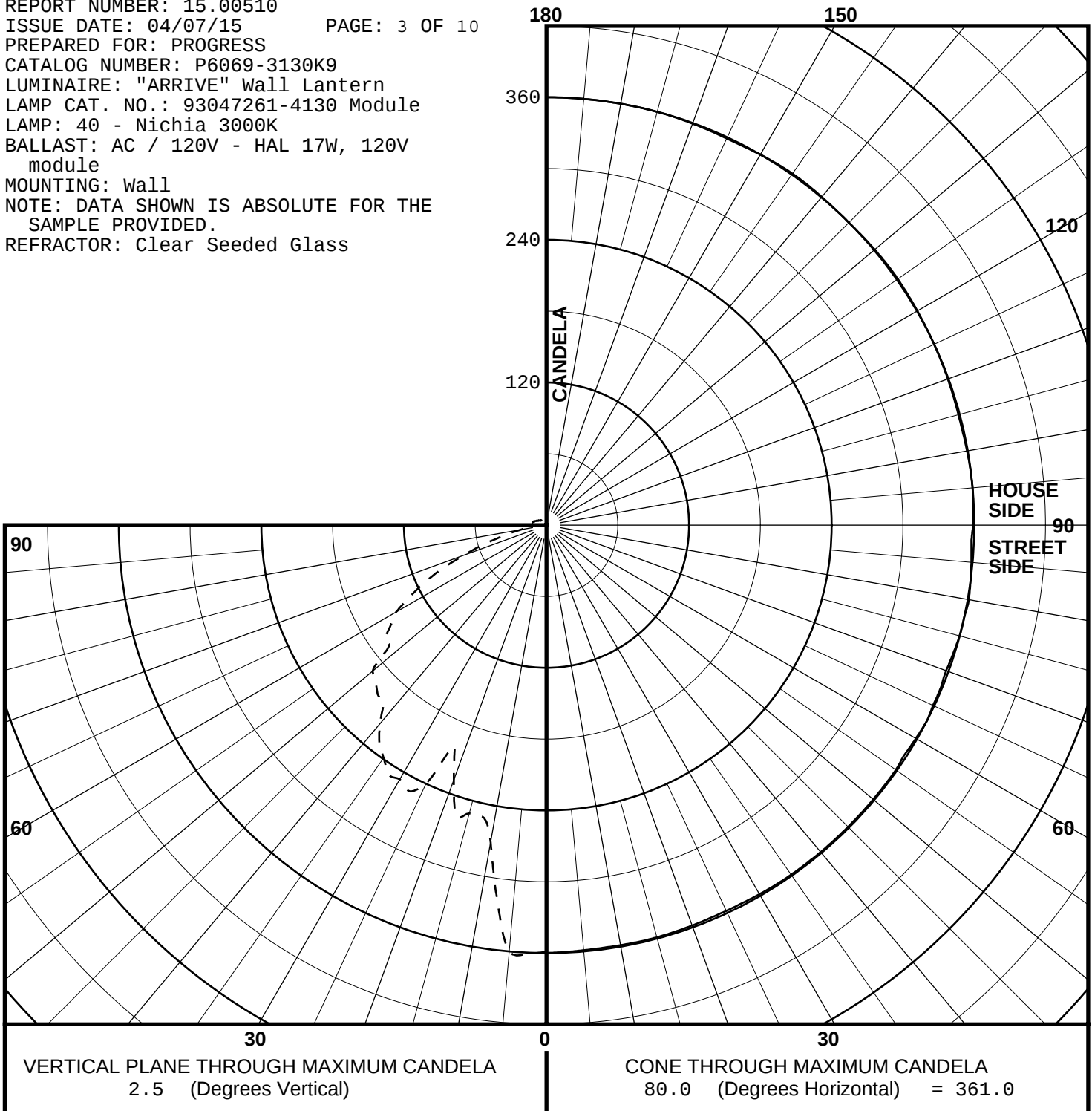
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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BALLAST: AC / 120V - HAL 17W, 120V
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MOUNTING: Wall
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SAMPLE PROVIDED.
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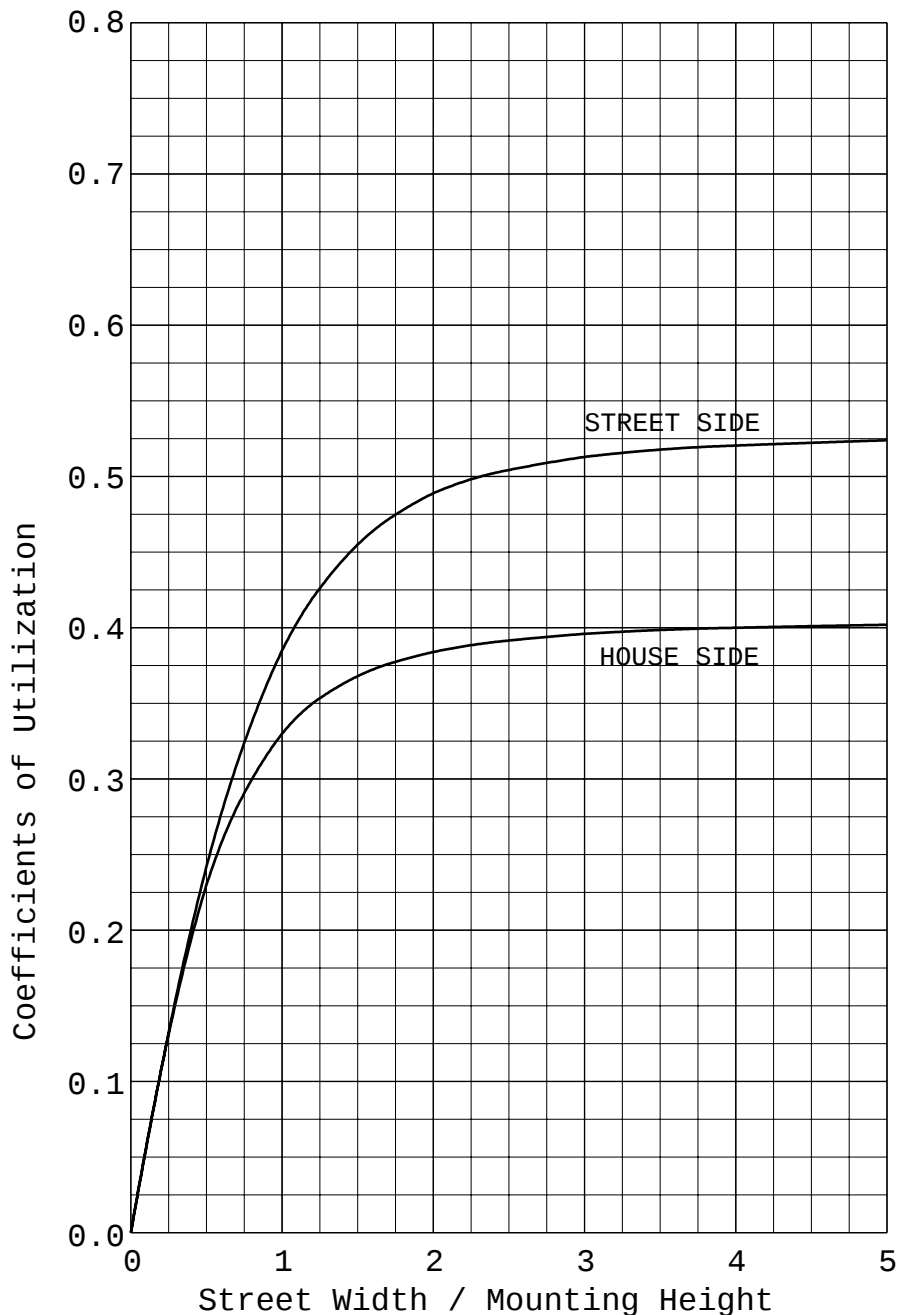
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	394.	53.4
DOWNWARD HOUSE SIDE	301.	40.8
DOWNWARD TOTAL	695.	94.2
UPWARD STREET SIDE	25.	3.4
UPWARD HOUSE SIDE	18.	2.4
UPWARD TOTAL	43.	5.8
TOTAL FLUX	738.	100.0
TOTAL INPUT WATTS = 17.9		
EFFICACY = 41.2 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.

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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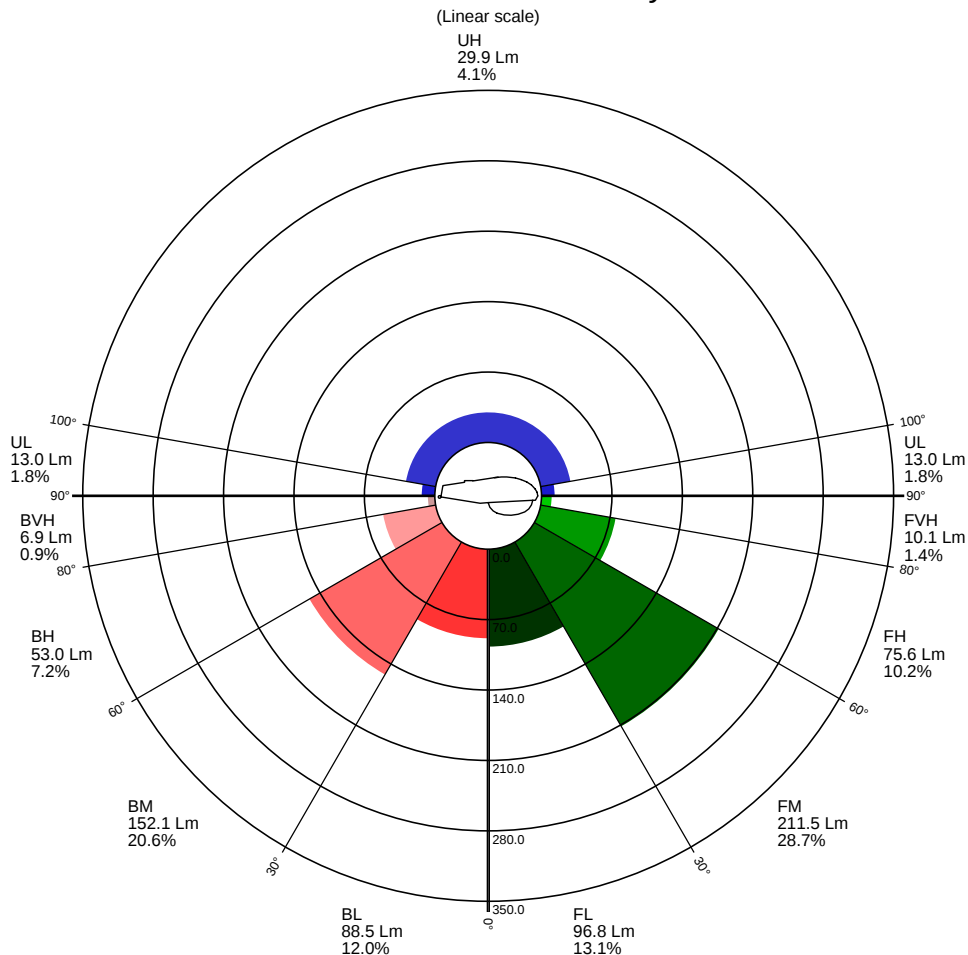


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BUG Rating:			Zone Ratings		
Zonal Summary			B0	U2	G1
			B	U	G
Forward		394			
FL	(0° - 30°)	96.8			
FM	(30° - 60°)	211.5			
FH	(60° - 80°)	75.6			G0
FVH	(80° - 90°)	10.1			G1
Backward		301			
BL	(0° - 30°)	88.5	B0		
BM	(30° - 60°)	152.1	B0		
BH	(60° - 80°)	53.0	B0		G0
BVH	(80° - 90°)	6.9			G0
Upward		43			
UL	(90° - 100°)	13.0		U2	
UH	(100° - 180°)	29.9		U2	
Trapped Light		0			
Total Flux		738			

Zonal Lumen Summary





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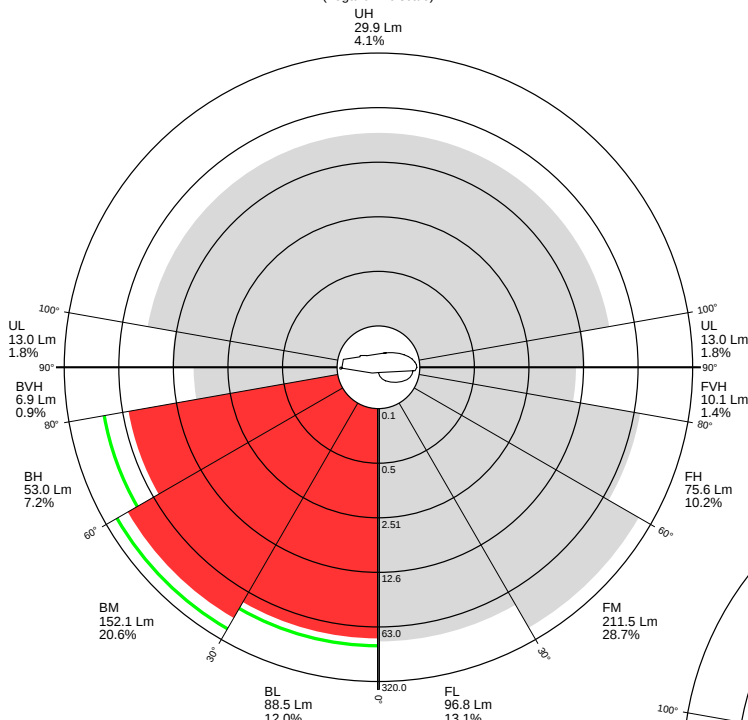
NVLAP
NVLAP LAB CODE: 201003-0

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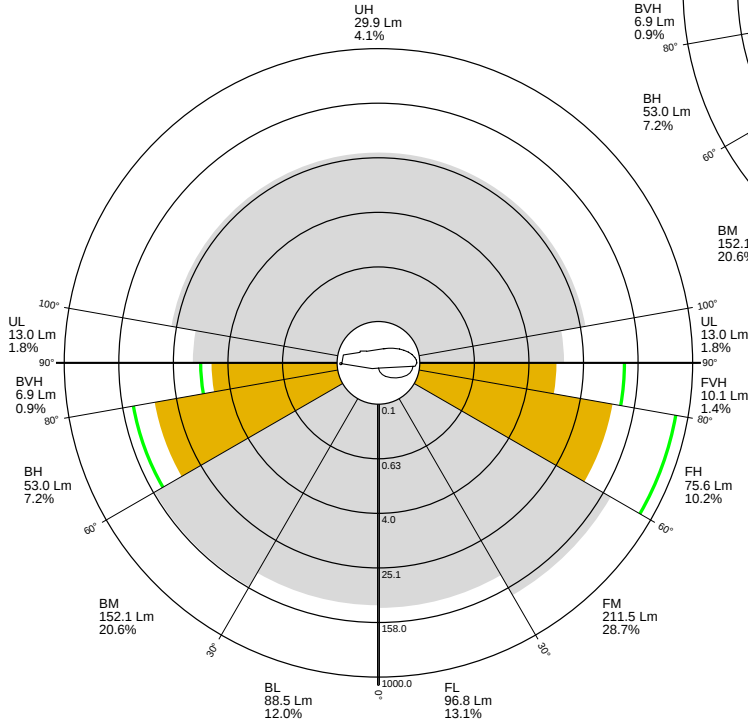
Backlight Rating Details

(Logarithmic scale)



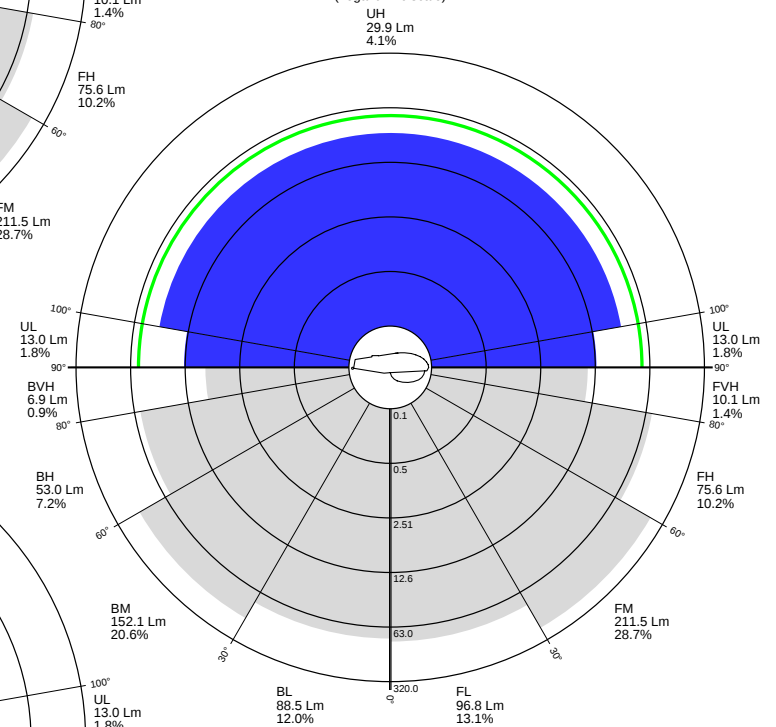
Glare Rating Details

(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	80.0	85.0
	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	3.	3.	3.	3.	4.	5.	5.	4.	4.	4.	4.
	135.0	3.	4.	4.	5.	6.	7.	7.	6.	6.	5.	5.
	125.0	5.	5.	6.	7.	8.	8.	9.	8.	7.	7.	6.
	115.0	6.	6.	8.	9.	10.	11.	11.	10.	10.	9.	8.
	105.0	7.	8.	10.	12.	13.	13.	13.	13.	12.	11.	10.
	95.0	9.	10.	13.	14.	15.	16.	16.	15.	15.	13.	12.
	90.0	10.	11.	14.	16.	17.	17.	17.	17.	16.	15.	13.
	87.5	12.	13.	16.	17.	18.	18.	19.	18.	17.	16.	15.
	85.0	13.	14.	17.	19.	19.	20.	20.	20.	18.	17.	16.
	82.5	15.	16.	19.	20.	22.	22.	22.	21.	20.	19.	17.
V	80.0	18.	19.	22.	24.	25.	26.	25.	25.	23.	22.	20.
E	77.5	28.	29.	31.	32.	32.	33.	32.	32.	32.	32.	30.
R	75.0	39.	41.	43.	40.	44.	45.	42.	40.	42.	43.	41.
T	72.5	55.	56.	58.	53.	56.	62.	55.	53.	56.	58.	54.
I	70.0	71.	73.	77.	74.	74.	82.	73.	70.	72.	74.	74.
C	67.5	89.	90.	97.	92.	88.	92.	80.	82.	91.	94.	93.
A	65.0	117.	111.	116.	112.	101.	106.	98.	106.	110.	112.	108.
L	62.5	130.	132.	135.	125.	110.	115.	102.	115.	124.	129.	134.
	60.0	148.	143.	151.	137.	127.	126.	122.	126.	138.	146.	138.
A	57.5	164.	158.	167.	146.	135.	132.	124.	134.	153.	155.	160.
N	55.0	175.	175.	181.	156.	142.	146.	142.	151.	163.	166.	169.
G	52.5	192.	179.	189.	165.	155.	155.	152.	158.	176.	167.	183.
L	50.0	185.	192.	196.	177.	167.	164.	162.	168.	185.	191.	189.
E	47.5	203.	208.	208.	185.	176.	168.	165.	185.	185.	195.	197.
	45.0	217.	223.	212.	186.	180.	176.	165.	183.	210.	201.	202.
	42.5	222.	225.	221.	191.	182.	184.	178.	194.	204.	203.	205.
	40.0	244.	239.	239.	203.	186.	192.	178.	201.	226.	218.	218.
	37.5	249.	257.	237.	205.	184.	188.	182.	199.	217.	231.	242.
	35.0	256.	252.	242.	207.	189.	191.	185.	220.	235.	239.	244.
	30.0	250.	258.	240.	200.	188.	183.	190.	210.	242.	247.	258.
	25.0	217.	223.	207.	177.	168.	168.	169.	184.	217.	240.	226.
	20.0	234.	237.	232.	214.	191.	193.	212.	225.	229.	228.	227.
	15.0	245.	245.	240.	223.	202.	200.	212.	246.	244.	251.	251.
	10.0	271.	270.	279.	302.	310.	307.	286.	274.	275.	271.	271.
	5.0	358.	358.	358.	358.	359.	359.	358.	359.	359.	360.	359.
	2.5<<	360.	359.	359.	358.	359.	359.	359.	359.	360.	361.	359.
	0.0	359.	359.	359.	359.	359.	359.	359.	359.	359.	359.	359.

CONE OF MAXIMUM CANDELA

||
PLANE OF MAXIMUM CANDELA



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CANDELA TABULATION
HOUSE SIDE

LATERAL ANGLE

	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
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	4.	4.	4.	4.	4.	4.	3.	2.	1.	1.	1.
135.0	5.	5.	5.	6.	6.	5.	4.	3.	2.	1.	1.
125.0	6.	6.	7.	8.	7.	6.	5.	4.	2.	1.	1.
115.0	7.	8.	9.	9.	9.	8.	6.	5.	3.	2.	1.
105.0	9.	9.	11.	12.	11.	9.	8.	6.	4.	2.	2.
95.0	11.	12.	14.	14.	13.	11.	9.	7.	5.	3.	2.
90.0	13.	13.	16.	15.	14.	12.	10.	8.	6.	3.	3.
87.5	14.	14.	17.	17.	15.	13.	11.	9.	6.	4.	3.
85.0	15.	15.	18.	18.	16.	14.	12.	9.	6.	4.	3.
82.5	17.	17.	19.	19.	17.	15.	13.	10.	7.	4.	3.
V 80.0	19.	20.	22.	22.	21.	18.	15.	12.	8.	4.	3.
E 77.5	29.	29.	31.	29.	27.	25.	20.	17.	12.	5.	4.
R 75.0	39.	40.	40.	39.	37.	35.	27.	23.	16.	6.	4.
T 72.5	52.	53.	54.	53.	52.	53.	37.	30.	23.	6.	4.
I 70.0	70.	70.	73.	67.	68.	71.	48.	39.	28.	7.	5.
C 67.5	86.	83.	92.	84.	79.	85.	62.	47.	34.	7.	5.
A 65.0	101.	108.	109.	100.	93.	92.	75.	54.	35.	8.	6.
L 62.5	119.	124.	121.	113.	103.	108.	79.	58.	46.	9.	6.
60.0	133.	143.	144.	127.	112.	114.	89.	64.	48.	10.	7.
A 57.5	145.	153.	144.	136.	128.	125.	97.	70.	51.	12.	9.
N 55.0	160.	156.	161.	141.	129.	137.	103.	71.	56.	15.	13.
G 52.5	167.	178.	161.	160.	136.	142.	108.	77.	57.	18.	16.
L 50.0	183.	173.	182.	156.	147.	148.	110.	82.	63.	20.	19.
E 47.5	197.	190.	191.	169.	155.	157.	126.	88.	68.	20.	18.
45.0	187.	208.	207.	169.	160.	163.	124.	91.	67.	22.	19.
42.5	206.	206.	207.	173.	171.	172.	134.	95.	71.	26.	24.
40.0	216.	229.	206.	177.	176.	176.	134.	100.	79.	31.	29.
37.5	233.	228.	222.	190.	176.	181.	138.	120.	109.	51.	47.
35.0	244.	232.	228.	193.	180.	183.	143.	134.	131.	88.	89.
30.0	256.	246.	238.	198.	184.	183.	165.	153.	144.	135.	139.
25.0	234.	226.	216.	174.	169.	164.	158.	149.	158.	171.	186.
20.0	226.	219.	229.	207.	192.	188.	186.	196.	189.	190.	197.
15.0	253.	247.	240.	219.	192.	192.	205.	223.	242.	237.	241.
10.0	269.	274.	270.	261.	252.	245.	257.	251.	245.	246.	247.
5.0	359.	359.	360.	360.	361.	360.	358.	346.	344.	342.	343.
2.5<<	359.	360.	359.	360.	361.	360.	361.	359.	360.	360.	360.
0.0	359.	359.	359.	359.	359.	359.	359.	359.	359.	359.	359.

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	23
10- 15	29
15- 20	36
20- 25	40
25- 30	49
30- 35	58
35- 40	62
40- 45	63
45- 50	63
50- 55	61
55- 60	57
60- 65	50
65- 70	39
70- 75	25
75- 80	14
80- 85	9
85- 90	8
90- 95	7
95-100	6
100-105	6
105-110	5
110-115	4
115-120	4
120-125	3
125-130	3
130-135	2
135-140	2
140-145	1
145-150	1
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	31
0- 20	96
0- 30	185
0- 40	305
0- 50	431
0- 60	549
0- 70	638
0- 80	678
0- 90	695
0-100	708
0-110	718
0-120	726
0-130	731
0-140	735
0-150	737
0-160	738
0-170	738
0-180	738

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Lighting

Date
4/7/2015

Goniophotometer Calibration

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

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25753.0 Lumens

Calibration Date: 12/02/2014

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
Goniophotometer	ITL / HLI LAB 1- Test Distance: 31.75'	N/A	
Power Analyzer	Yokogawa / WT 332	C2QA27071V	11/12/2015
Power Source	Voltage-Regulated House Power	N/A	N/A
Thermometer	National Instruments / USB-TC01	176F4E3	11/11/2015

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