

Project Number  
15.00611



**HUBBELL**  
Lighting

Date  
4/17/2015

LAB 1

### Test Sample Description

Catalog Number: P6057-3130K9  
Description: Outdoor Wall Lantern with Clear Beveled Glass and 9W HAL Module

Test Method: IES LM-79-08 § 10  
Preburn Time: 00:00  
Time To Stabilize: 1:50  
Total Operating Time: 2:30  
  
Input Voltage (Volts): 120.1  
Input Current (Amps): 0.066  
Input Wattage (Watts): 7.4  
Ambient Temp (°C): 25.1



### Hubbell Lighting, Inc.

701 Millennium Boulevard  
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www.hubbellighting.com

Checked: D. BLACK  
Approved: M. WASHBURN





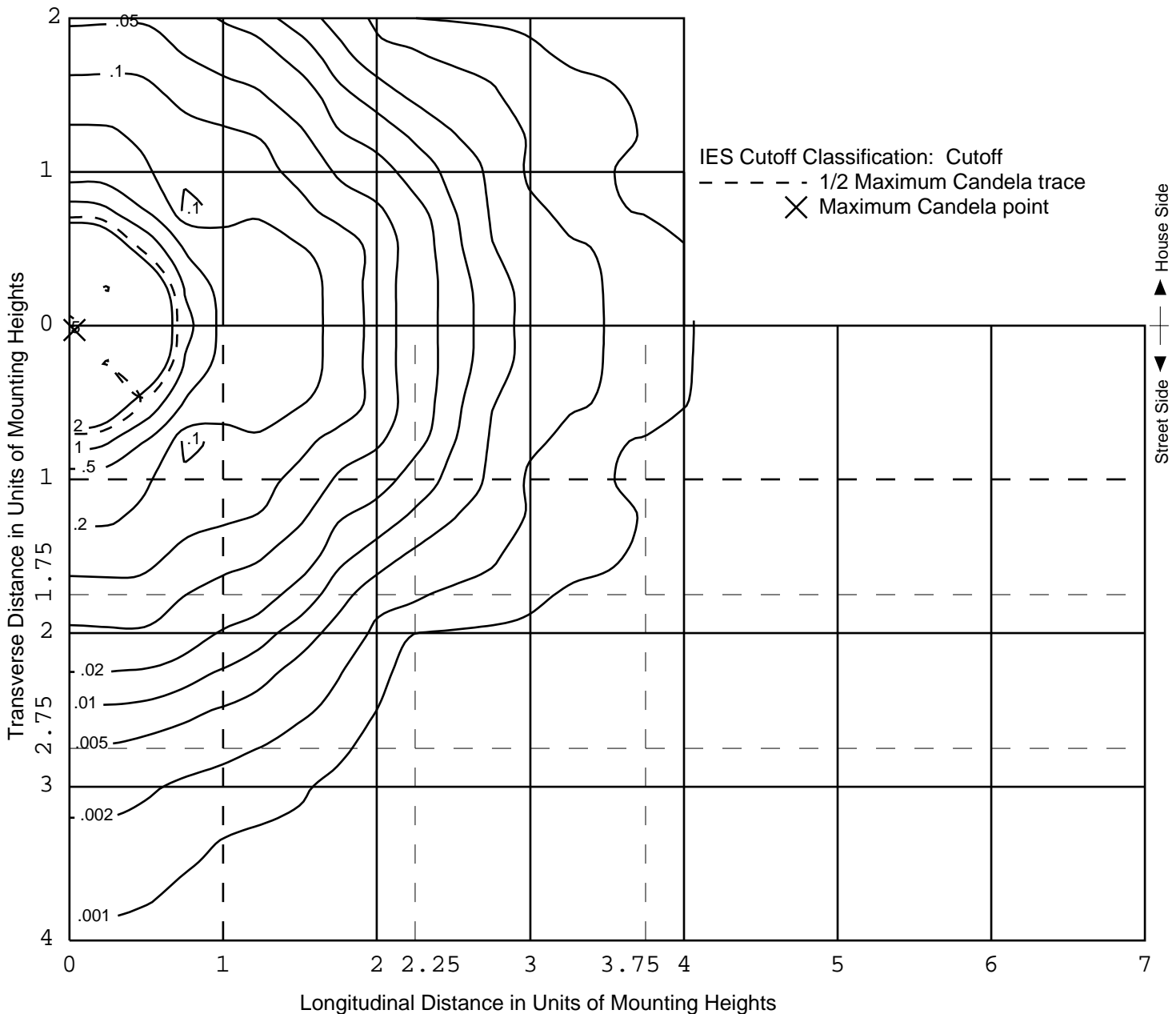
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**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION**  
Values based on 6.5 foot mounting height.

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PREPARED FOR: PROGRESS  
CATALOG NUMBER: P6057-3130K9  
LUMINAIRE: Outdoor Wall Lantern with  
Clear Beveled Glass and 9W HAL Module  
LAMP CAT. NO.: 93049180-3130  
LAMP: 20 - NICHIA 3000K LEDs  
MOUNTING: WALL  
NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
SAMPLE PROVIDED.





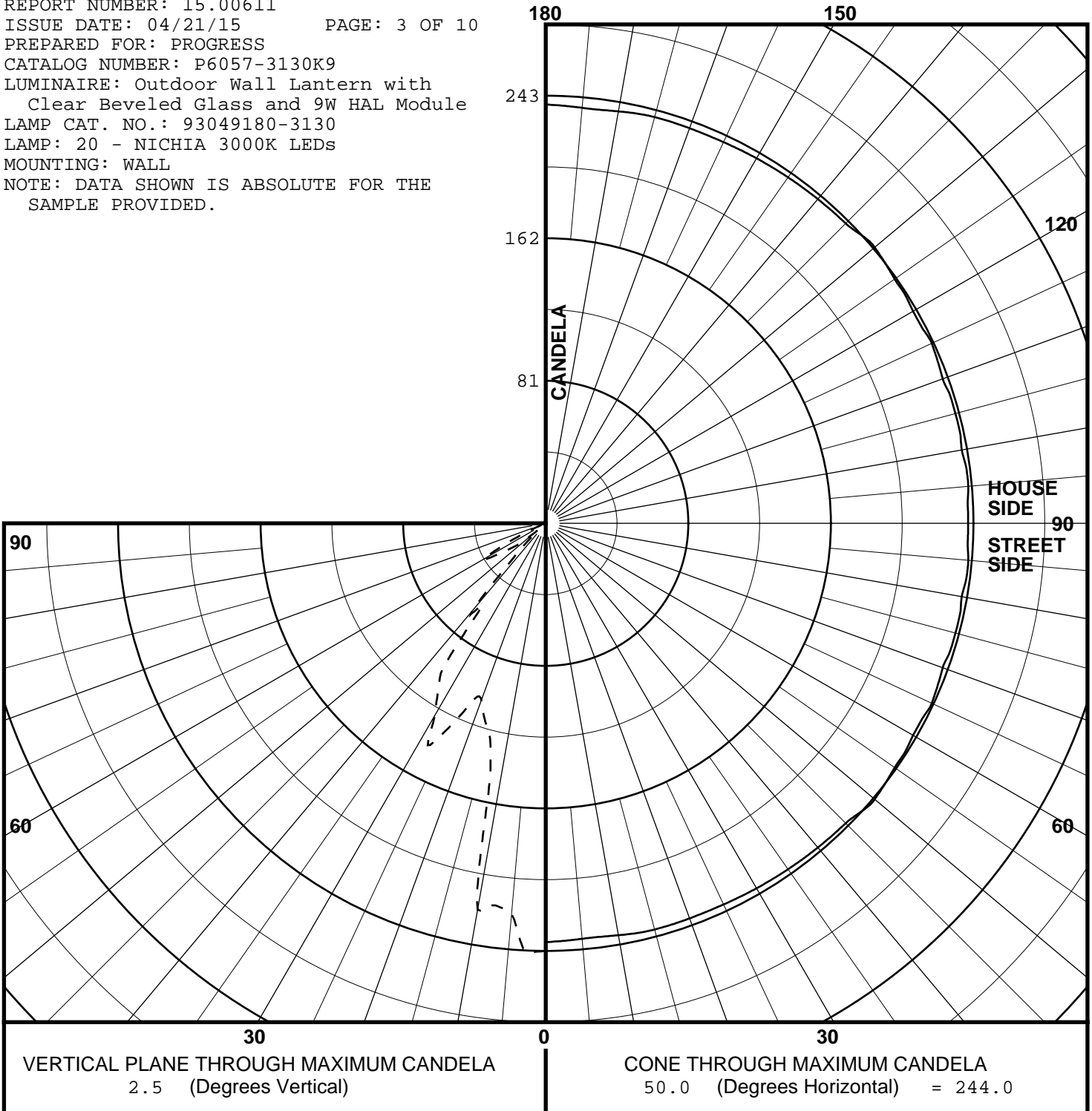
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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 LAMP: 20 - NICHIA 3000K LEDs  
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 NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
 SAMPLE PROVIDED.





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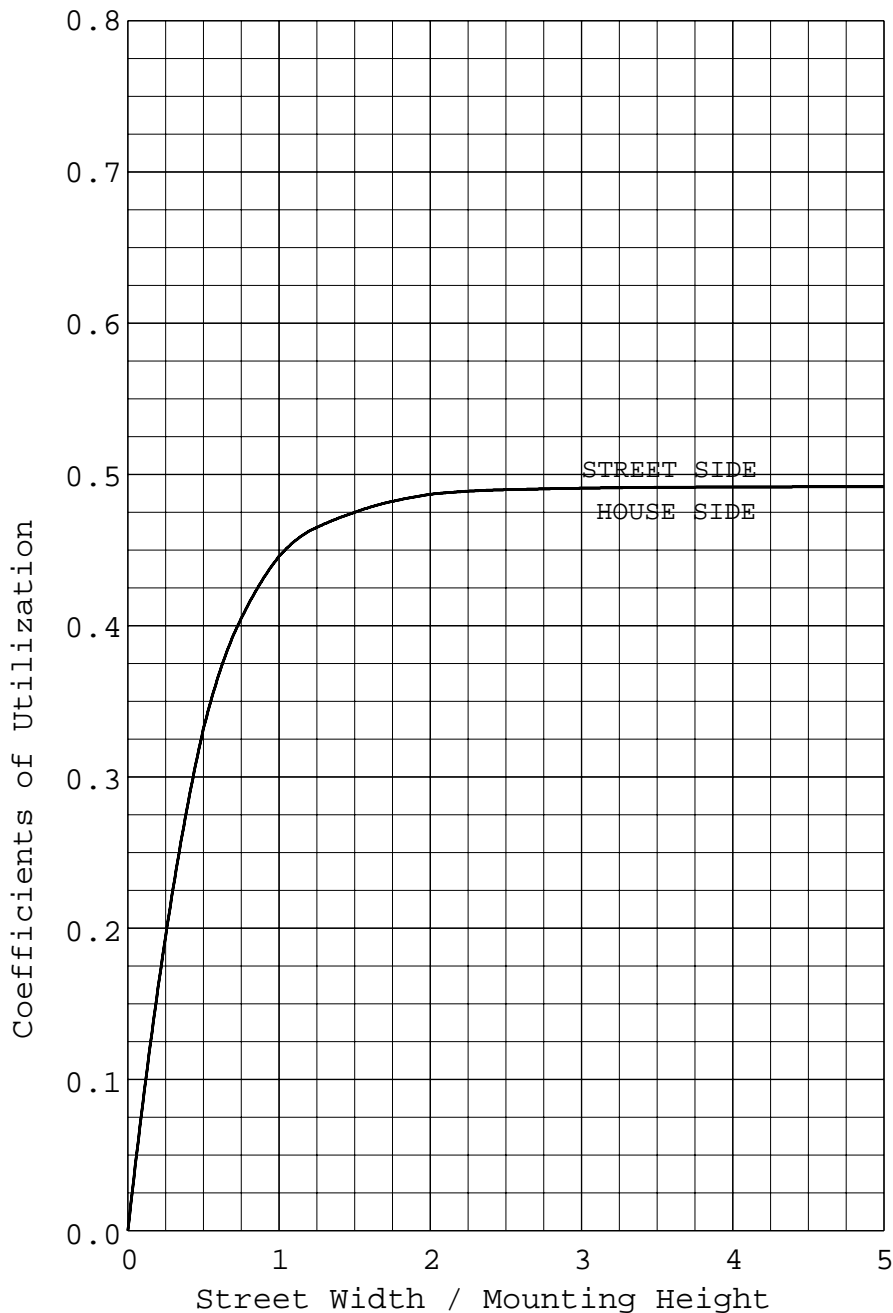
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	160.	49.2
DOWNWARD HOUSE SIDE	160.	49.2
DOWNWARD TOTAL	320.	98.4
UPWARD STREET SIDE	3.	0.8
UPWARD HOUSE SIDE	3.	0.8
UPWARD TOTAL	5.	1.6
TOTAL FLUX	325.	100.0
TOTAL INPUT WATTS = 7.4		
EFFICACY = 43.9 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.

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



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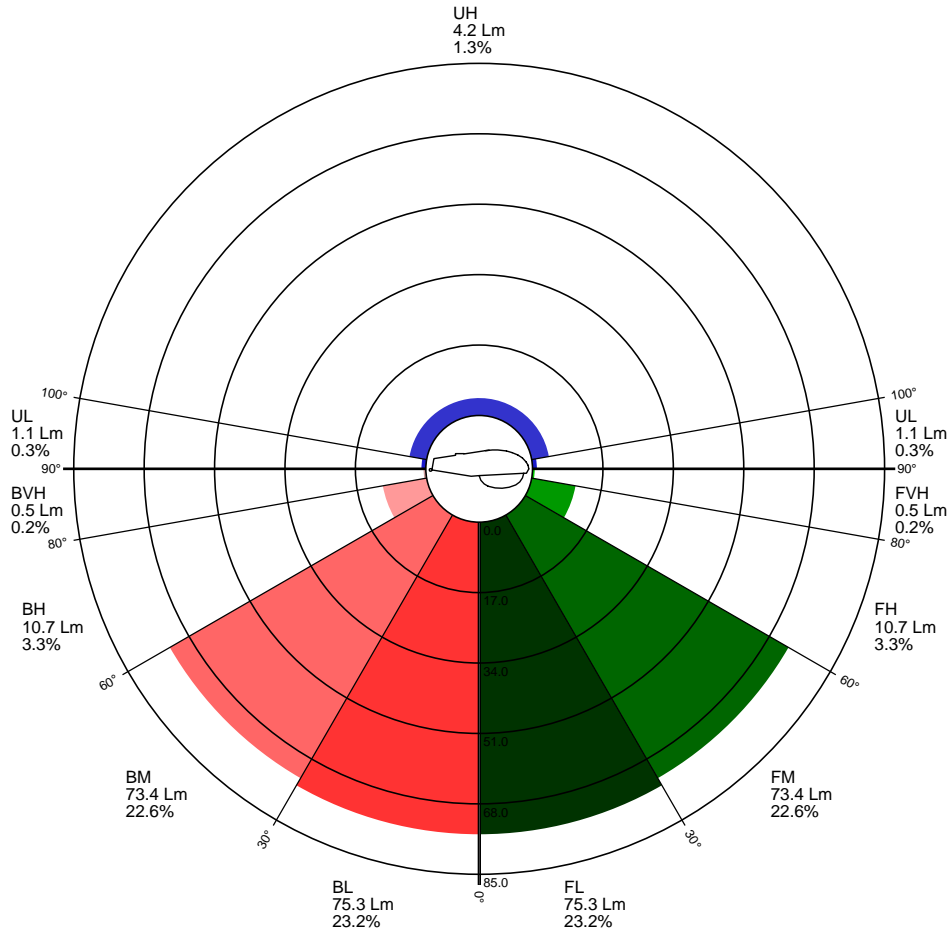
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BUG Rating:			Zone Ratings				
Zonal Summary			Lumens	% of Fixture	B	U	G
Forward			160	49.2			
FL	(0° - 30°)		75.3	23.2			
FM	(30° - 60°)		73.4	22.6			
FH	(60° - 80°)		10.7	3.3			G0
FVH	(80° - 90°)		0.5	0.2			G0
Backward			160	49.2			
BL	(0° - 30°)		75.3	23.2	B0		
BM	(30° - 60°)		73.4	22.6	B0		
BH	(60° - 80°)		10.7	3.3	B0		G0
BVH	(80° - 90°)		0.5	0.2			G0
Upward			5	1.6			
UL	(90° - 100°)		1.1	0.3		U1	
UH	(100° - 180°)		4.2	1.3		U1	
Trapped Light			0	0.0			
Total Flux			325	100.0			

**Zonal Lumen Summary**

(Linear scale)





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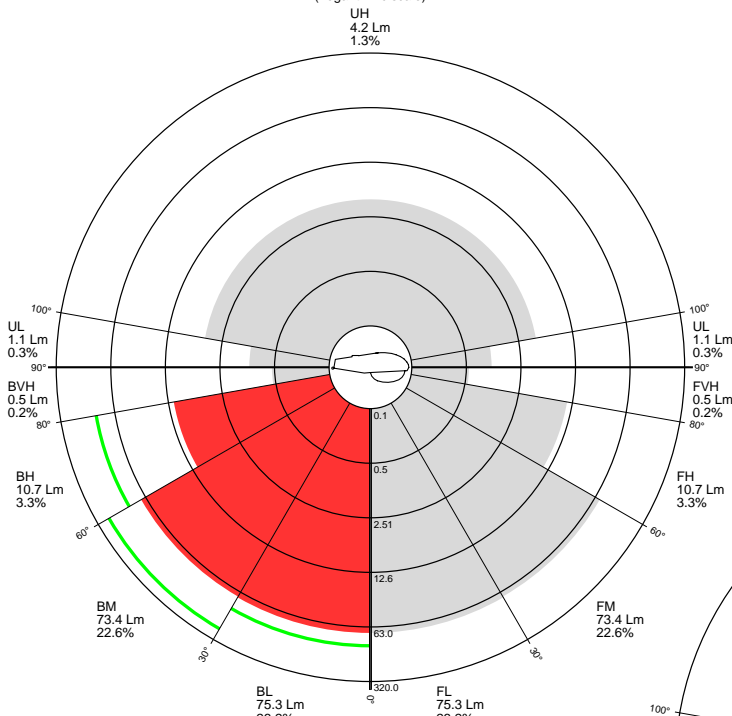
NVLAP LAB CODE: 201003-0

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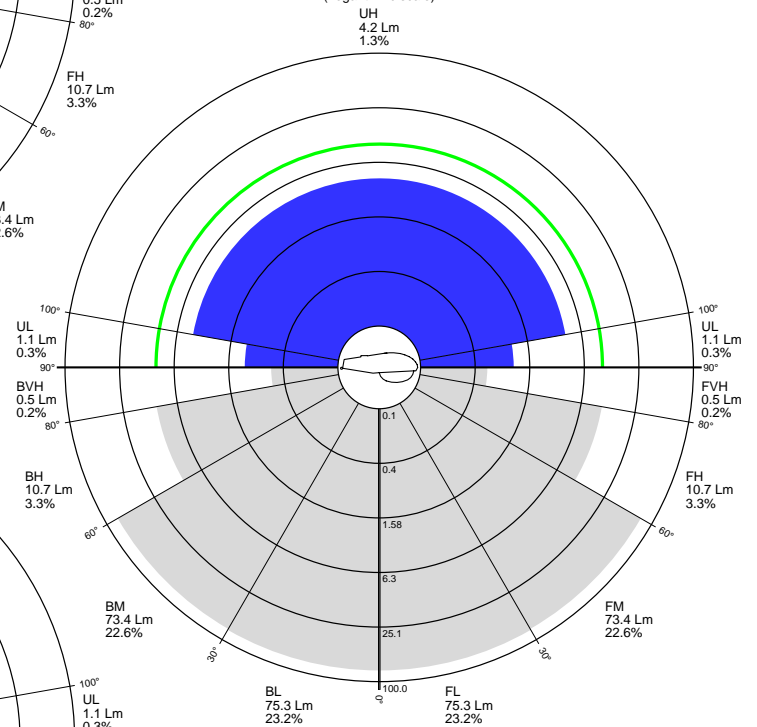
**Backlight Rating Details**

(Logarithmic scale)



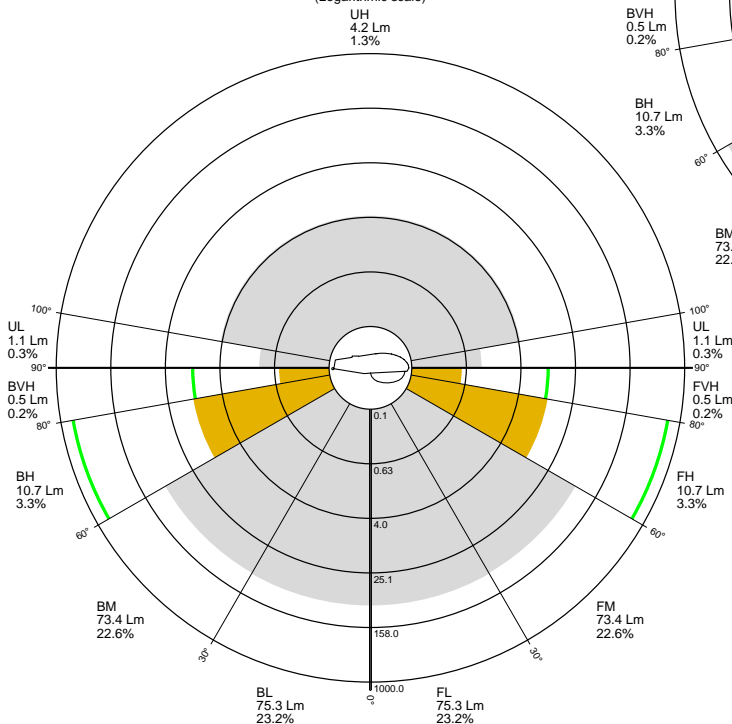
**Uplight Rating Details**

(Logarithmic scale)



**Glare 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	50.0	55.0	65.0	75.0	85.0
	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.	0.	0.	1.	1.	1.	0.	1.	1.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	1.	0.	0.	1.	1.	1.	1.	1.	1.	1.
	135.0	0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
	125.0	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.
	115.0	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.
	105.0	0.	0.	0.	1.	0.	1.	1.	1.	1.	1.
	95.0	1.	1.	1.	1.	1.	0.	1.	1.	1.	1.
	90.0	1.	1.	1.	1.	1.	0.	1.	1.	1.	1.
	87.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	85.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	82.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
V	80.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
E	77.5	1.	1.	1.	1.	1.	1.	1.	2.	2.	2.
R	75.0	3.	3.	2.	2.	1.	1.	1.	3.	2.	4.
T	72.5	3.	3.	2.	2.	2.	1.	1.	2.	3.	4.
I	70.0	5.	5.	4.	4.	3.	2.	2.	3.	6.	7.
C	67.5	8.	8.	8.	8.	7.	6.	4.	7.	11.	13.
A	65.0	16.	17.	19.	13.	15.	14.	14.	12.	20.	24.
L	62.5	23.	24.	30.	19.	21.	29.	27.	23.	27.	40.
	60.0	27.	26.	30.	23.	26.	35.	41.	32.	37.	58.
A	57.5	29.	30.	33.	32.	31.	32.	34.	42.	42.	56.
N	55.0	33.	34.	38.	32.	24.	27.	26.	33.	49.	78.
G	52.5	38.	39.	40.	31.	25.	13.	20.	29.	45.	88.
L	50.0	39.	39.	37.	36.	24.	4.	9.	29.	43.	73.
E	47.5	34.	33.	33.	32.	14.	7.	6.	14.	41.	51.
	45.0	27.	28.	23.	28.	28.	13.	16.	26.	31.	42.
	42.5	23.	23.	20.	55.	44.	41.	31.	38.	48.	28.
	40.0	51.	50.	57.	82.	70.	63.	65.	69.	77.	48.
	37.5	88.	89.	94.	129.	108.	100.	60.	104.	120.	86.
	35.0	140.	141.	151.	152.	124.	111.	104.	121.	147.	148.
	30.0	192.	195.	215.	190.	148.	143.	126.	144.	211.	202.
	25.0	217.	212.	221.	220.	150.	133.	126.	153.	219.	202.
	20.0	210.	222.	199.	180.	122.	122.	107.	122.	177.	225.
	15.0	120.	122.	119.	131.	137.	111.	124.	132.	136.	130.
	10.0	153.	152.	159.	166.	196.	223.	223.	200.	170.	166.
	5.0	229.	229.	229.	226.	223.	221.	223.	225.	229.	232.
	2.5<<	238.	237.	239.	239.	240.	241.	244.	242.	242.	241.
	0.0	243.	243.	243.	243.	243.	243.	243.	243.	243.	243.

PLANE OF MAXIMUM CANDELA

CONE 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	1.	1.	1.	0.	1.	1.	1.	0.	0.	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.	0.	0.	1.
135.0	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
125.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.
115.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.
105.0	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.	0.
95.0	1.	1.	1.	1.	1.	0.	1.	1.	1.	1.	1.
90.0	1.	1.	1.	1.	1.	0.	1.	1.	1.	1.	1.
87.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
85.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
82.5	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
V 80.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
E 77.5	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
R 75.0	4.	4.	2.	3.	1.	1.	1.	2.	2.	3.	3.
T 72.5	4.	4.	3.	3.	2.	1.	2.	2.	2.	3.	3.
I 70.0	7.	7.	6.	6.	3.	2.	3.	4.	4.	5.	5.
C 67.5	13.	13.	13.	11.	7.	6.	7.	8.	8.	8.	8.
A 65.0	22.	24.	32.	20.	12.	14.	15.	13.	19.	17.	16.
L 62.5	41.	40.	55.	27.	23.	29.	21.	19.	30.	24.	23.
60.0	56.	58.	59.	37.	32.	35.	26.	23.	30.	26.	27.
A 57.5	58.	56.	68.	42.	42.	32.	31.	32.	33.	30.	29.
N 55.0	73.	78.	81.	49.	33.	27.	24.	32.	38.	34.	33.
G 52.5	91.	88.	79.	45.	29.	13.	25.	31.	40.	39.	38.
L 50.0	74.	73.	69.	43.	29.	4.	24.	36.	37.	39.	39.
E 47.5	54.	51.	45.	41.	14.	7.	14.	32.	33.	33.	34.
45.0	42.	42.	33.	31.	26.	13.	28.	28.	23.	28.	27.
42.5	29.	28.	20.	48.	38.	41.	44.	55.	20.	23.	23.
40.0	45.	48.	54.	77.	69.	63.	70.	82.	57.	50.	51.
37.5	85.	86.	85.	120.	104.	100.	108.	129.	94.	89.	88.
35.0	139.	148.	147.	147.	121.	111.	124.	152.	151.	141.	140.
30.0	197.	202.	227.	211.	144.	143.	148.	190.	215.	195.	192.
25.0	206.	202.	215.	219.	153.	133.	150.	220.	221.	212.	217.
20.0	211.	225.	203.	177.	122.	122.	122.	180.	199.	222.	210.
15.0	129.	130.	129.	136.	132.	111.	137.	131.	119.	122.	120.
10.0	166.	166.	168.	170.	200.	223.	196.	166.	159.	152.	153.
5.0	231.	232.	231.	229.	225.	221.	223.	226.	229.	229.	229.
2.5<<	240.	241.	241.	242.	242.	241.	240.	239.	239.	237.	238.
0.0	243.	243.	243.	243.	243.	243.	243.	243.	243.	243.	243.

CONE OF MAXIMUM CANDELA



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	6
5- 10	15
10- 15	18
15- 20	25
20- 25	39
25- 30	48
30- 35	48
35- 40	34
40- 45	15
45- 50	13
50- 55	18
55- 60	19
60- 65	14
65- 70	5
70- 75	2
75- 80	1
80- 85	1
85- 90	1
90- 95	1
95-100	1
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	21
0- 20	63
0- 30	151
0- 40	233
0- 50	260
0- 60	297
0- 70	317
0- 80	319
0- 90	320
0-100	321
0-110	322
0-120	323
0-130	323
0-140	324
0-150	325
0-160	325
0-170	325
0-180	325

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15.00611



Date  
4/17/2015

### *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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