

Project Number
15.00607



HUBBELL
Lighting

Date
4/21/2015

LAB 1

Test Sample Description

Catalog Number: P6068-3130K9
Description: ARRIVE - MED OUTDOOR LED WALL LANTERN

Test Method: IES LM-79-08 § 10
Preburn Time: 00:15
Time To Stabilize: 1:40
Total Operating Time: 2:32

Input Voltage (Volts): 120.1
Input Current (Amps): 0.072
Input Wattage (Watts): 8.1
Ambient Temp (°C): 25.2



Hubbell Lighting, Inc.

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

Checked: D. ROBBINS
Approved: M. WASHURN





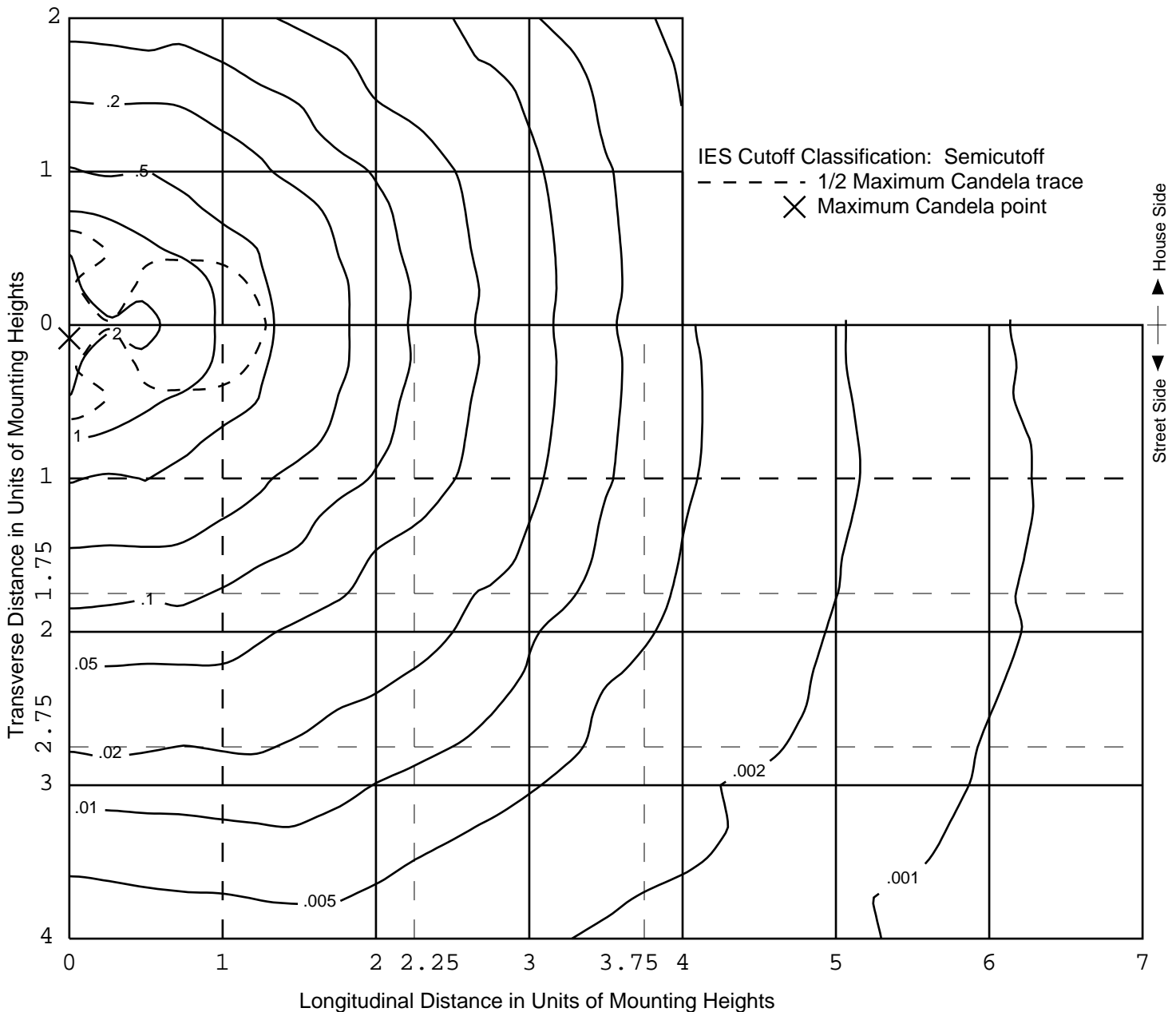
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 6.6 foot mounting height.

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CATALOG NUMBER: P6068-3130K9
LUMINAIRE: ARRIVE - MED OUTDOOR LED WALL LANTERN
LAMP CAT. NO.: 93049180-3130
LAMP: 20 - NICHIA 3000K LEDs (9W -HAL Module)
REFRACTOR: Clear Seeded Glass
MOUNTING: WALL
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.





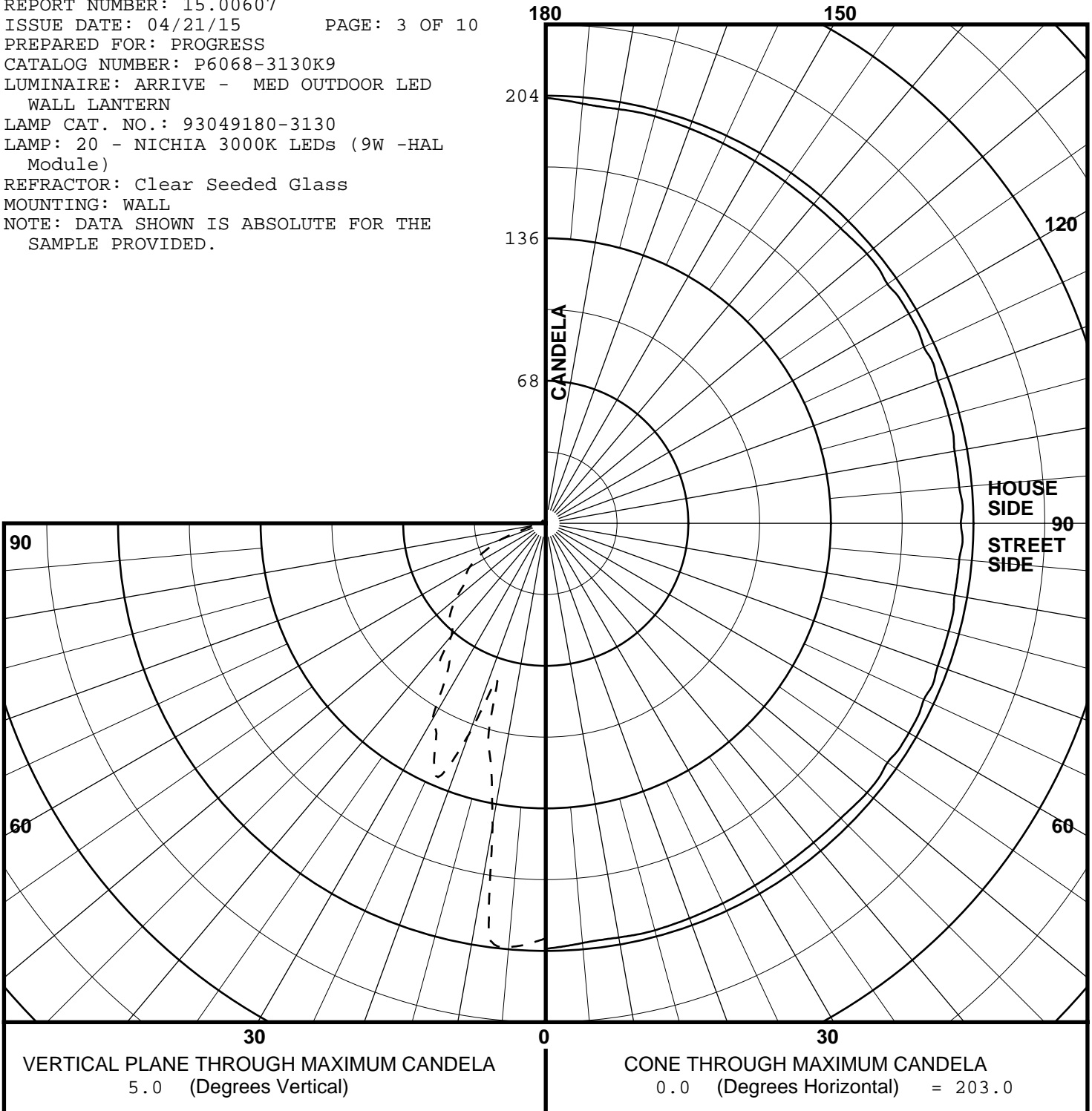
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
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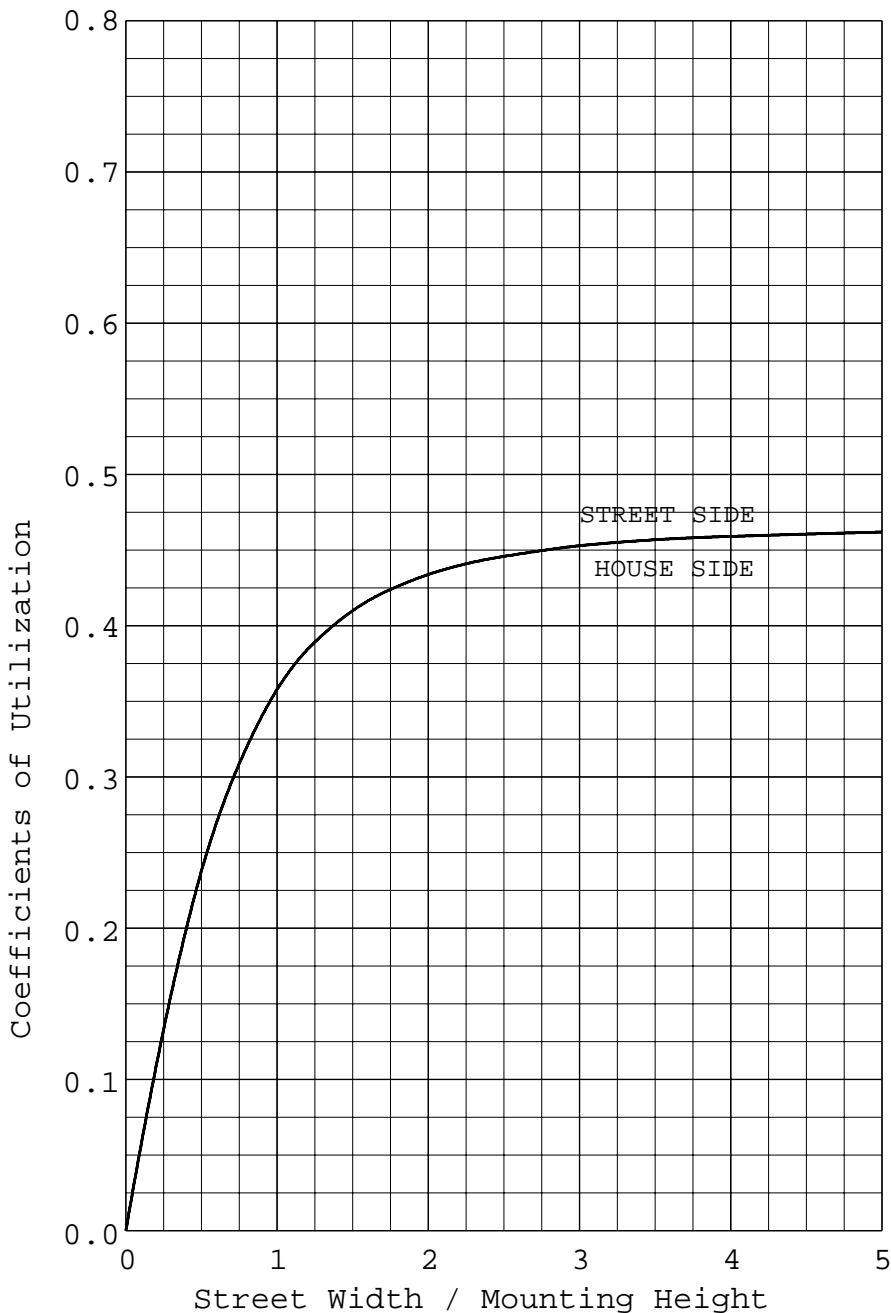
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	185.	47.1
DOWNWARD HOUSE SIDE	185.	47.1
DOWNWARD TOTAL	369.	94.1
UPWARD STREET SIDE	12.	2.9
UPWARD HOUSE SIDE	12.	2.9
UPWARD TOTAL	23.	5.9
TOTAL FLUX	392.	100.0
TOTAL INPUT WATTS = 8.1		
EFFICACY = 48.4 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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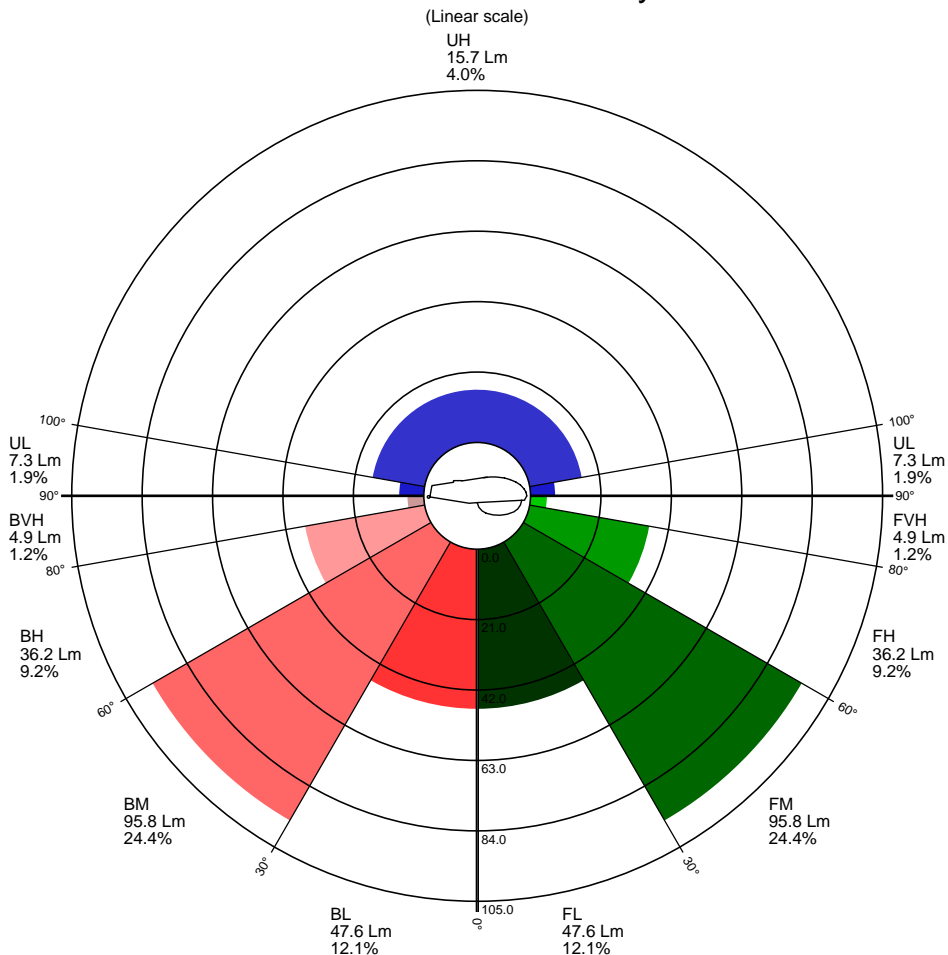


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BUG Rating:				B0 U2 G0		
Zonal Summary				Zone Ratings		
		Lumens	% of Fixture	B	U	G
Forward		185	47.1			
FL	(0° - 30°)	47.6	12.1			
FM	(30° - 60°)	95.8	24.4			
FH	(60° - 80°)	36.2	9.2			G0
FVH	(80° - 90°)	4.9	1.2			G0
Backward		185	47.1			
BL	(0° - 30°)	47.6	12.1	B0		
BM	(30° - 60°)	95.8	24.4	B0		
BH	(60° - 80°)	36.2	9.2	B0		G0
BVH	(80° - 90°)	4.9	1.2			G0
Upward		23	5.9			
UL	(90° - 100°)	7.3	1.9		U1	
UH	(100° - 180°)	15.7	4.0		U2	
Trapped Light		0	0.0			
Total Flux		392	100.0			

Zonal Lumen Summary





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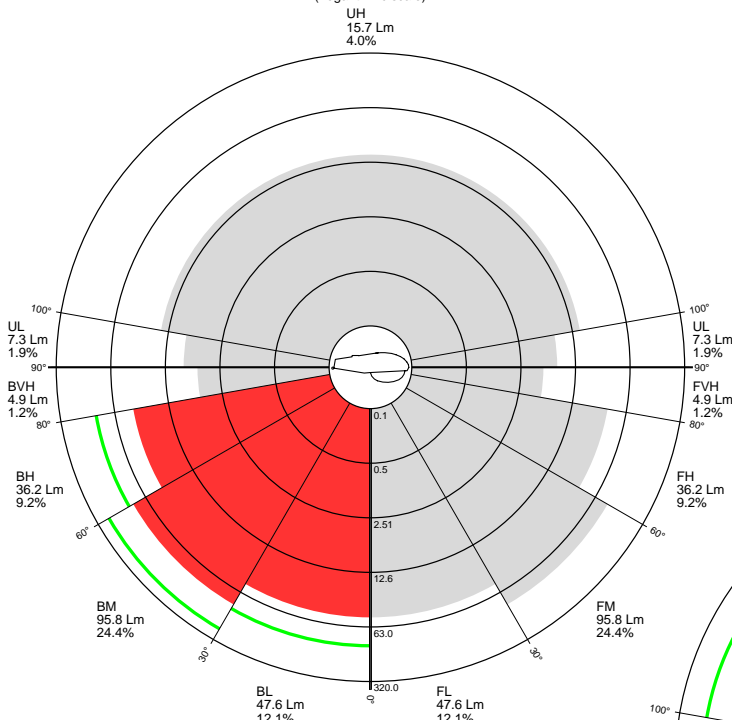
NVLAP LAB CODE: 201003-0

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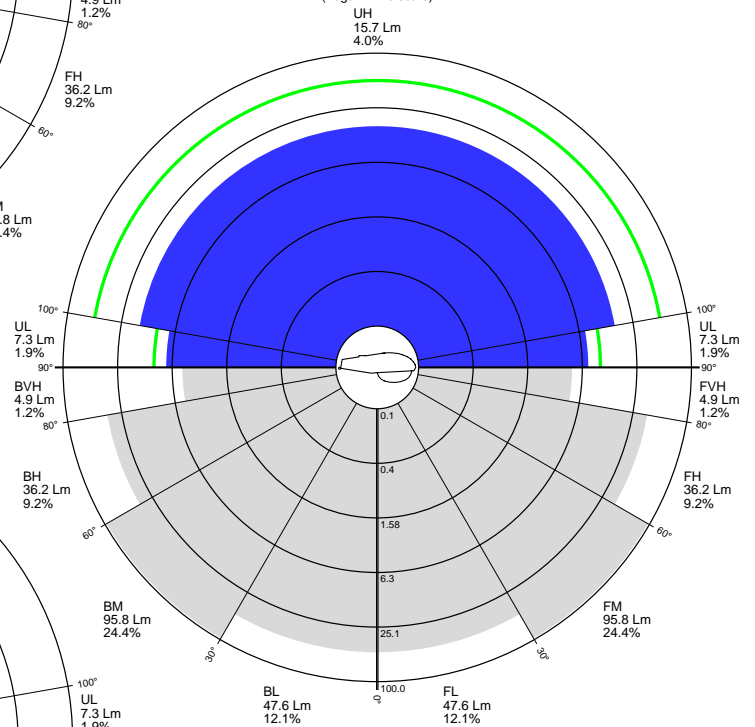
Backlight Rating Details

(Logarithmic scale)



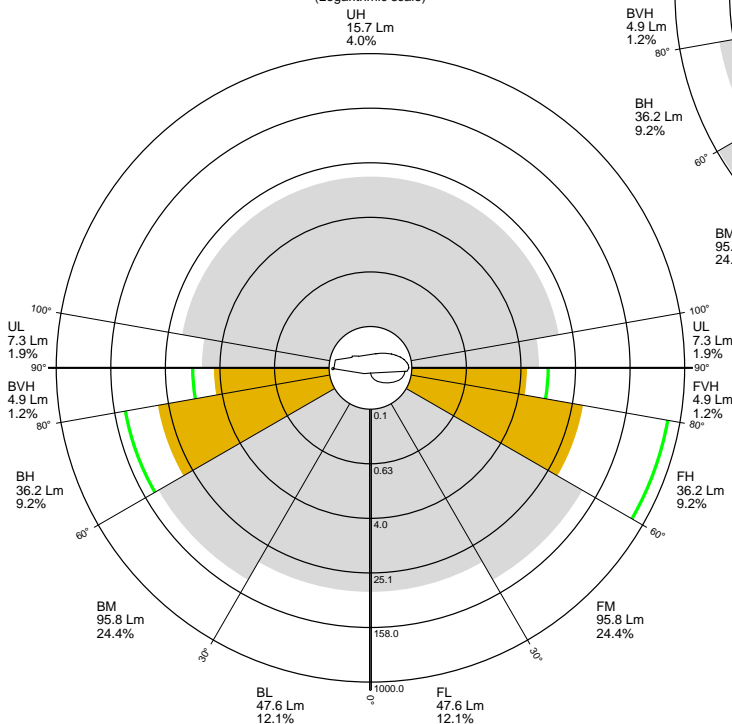
Uplight Rating Details

(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	55.0	65.0	75.0	85.0
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	1.	1.	2.	2.	3.	3.	3.	3.	3.	2.
	2.	2.	2.	3.	4.	4.	4.	4.	4.	3.
	2.	2.	3.	4.	5.	5.	5.	5.	5.	4.
	3.	3.	4.	5.	6.	6.	7.	7.	6.	5.
	3.	4.	5.	6.	7.	8.	8.	8.	8.	6.
	3.	4.	5.	7.	8.	8.	9.	9.	9.	7.
	4.	4.	6.	7.	8.	9.	10.	10.	9.	8.
	4.	5.	6.	8.	9.	10.	10.	10.	10.	9.
V	5.	5.	7.	9.	10.	11.	11.	12.	11.	10.
E	6.	6.	8.	10.	11.	12.	12.	13.	12.	11.
R	7.	8.	10.	14.	14.	16.	14.	17.	15.	14.
T	10.	11.	14.	21.	21.	26.	21.	25.	23.	21.
I	15.	15.	19.	28.	28.	32.	30.	36.	35.	32.
C	23.	25.	25.	34.	32.	39.	37.	48.	50.	48.
A	28.	29.	30.	40.	38.	45.	41.	55.	58.	58.
L	33.	33.	36.	46.	42.	52.	47.	64.	66.	65.
	38.	37.	38.	50.	48.	54.	52.	69.	73.	73.
A	42.	42.	42.	55.	51.	62.	60.	77.	79.	79.
N	45.	44.	45.	58.	58.	66.	65.	85.	87.	86.
G	46.	49.	49.	65.	60.	66.	69.	93.	88.	89.
L	50.	51.	48.	69.	66.	71.	69.	98.	98.	96.
E	56.	55.	56.	77.	68.	75.	73.	98.	99.	100.
	61.	59.	57.	76.	69.	79.	79.	103.	103.	100.
	65.	59.	59.	77.	72.	83.	85.	104.	109.	111.
	66.	63.	63.	83.	75.	83.	87.	111.	115.	116.
	70.	68.	69.	80.	77.	87.	86.	118.	122.	126.
	83.	80.	74.	85.	80.	89.	88.	117.	130.	129.
	80.	81.	80.	90.	83.	88.	89.	120.	131.	140.
	108.	107.	108.	102.	81.	81.	84.	121.	142.	145.
	126.	125.	119.	111.	82.	73.	79.	109.	129.	129.
	107.	103.	93.	79.	65.	59.	68.	75.	92.	94.
	106.	106.	109.	106.	104.	92.	99.	106.	108.	102.
	146.	146.	149.	163.	187.	195.	184.	159.	148.	144.
5.0<<	203.	201.	201.	200.	199.	199.	199.	199.	199.	198.
0.0	198.	198.	198.	198.	198.	198.	198.	198.	198.	198.

||
||
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	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	2.	2.	3.	3.	3.	3.	3.	2.	2.	1.	1.
125.0	3.	3.	4.	4.	4.	4.	4.	3.	2.	2.	2.
115.0	4.	4.	5.	5.	5.	5.	5.	4.	3.	2.	2.
105.0	5.	5.	6.	7.	7.	6.	6.	5.	4.	3.	3.
95.0	6.	6.	8.	8.	8.	8.	7.	6.	5.	4.	3.
90.0	6.	7.	9.	9.	9.	8.	8.	7.	5.	4.	3.
87.5	7.	8.	9.	10.	10.	9.	8.	7.	6.	4.	4.
85.0	8.	9.	10.	10.	10.	10.	9.	8.	6.	5.	4.
V 82.5	9.	10.	11.	12.	11.	11.	10.	9.	7.	5.	5.
E 80.0	11.	11.	12.	13.	12.	12.	11.	10.	8.	6.	6.
R 77.5	13.	14.	15.	17.	14.	16.	14.	14.	10.	8.	7.
T 75.0	19.	21.	23.	25.	21.	26.	21.	21.	14.	11.	10.
I 72.5	30.	32.	35.	36.	30.	32.	28.	28.	19.	15.	15.
C 70.0	45.	48.	50.	48.	37.	39.	32.	34.	25.	25.	23.
A 67.5	56.	58.	58.	55.	41.	45.	38.	40.	30.	29.	28.
L 65.0	62.	65.	66.	64.	47.	52.	42.	46.	36.	33.	33.
62.5	74.	73.	73.	69.	52.	54.	48.	50.	38.	37.	38.
A 60.0	81.	79.	79.	77.	60.	62.	51.	55.	42.	42.	42.
N 57.5	88.	86.	87.	85.	65.	66.	58.	58.	45.	44.	45.
G 55.0	92.	89.	88.	93.	69.	66.	60.	65.	49.	49.	46.
L 52.5	99.	96.	98.	98.	69.	71.	66.	69.	48.	51.	50.
E 50.0	108.	100.	99.	98.	73.	75.	68.	77.	56.	55.	56.
47.5	102.	100.	103.	103.	79.	79.	69.	76.	57.	59.	61.
45.0	106.	111.	109.	104.	85.	83.	72.	77.	59.	59.	65.
42.5	114.	116.	115.	111.	87.	83.	75.	83.	63.	63.	66.
40.0	127.	126.	122.	118.	86.	87.	77.	80.	69.	68.	70.
37.5	129.	129.	130.	117.	88.	89.	80.	85.	74.	80.	83.
35.0	137.	140.	131.	120.	89.	88.	83.	90.	80.	81.	80.
30.0	141.	145.	142.	121.	84.	81.	81.	102.	108.	107.	108.
25.0	131.	129.	129.	109.	79.	73.	82.	111.	119.	125.	126.
20.0	97.	94.	92.	75.	68.	59.	65.	79.	93.	103.	107.
15.0	100.	102.	108.	106.	99.	92.	104.	106.	109.	106.	106.
10.0	145.	144.	148.	159.	184.	195.	187.	163.	149.	146.	146.
5.0<<	198.	198.	199.	199.	199.	199.	199.	200.	201.	201.	203.
0.0	198.	198.	198.	198.	198.	198.	198.	198.	198.	198.	198.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	5
5- 10	14
10- 15	15
15- 20	14
20- 25	20
25- 30	27
30- 35	31
35- 40	32
40- 45	33
45- 50	33
50- 55	32
55- 60	31
60- 65	27
65- 70	22
70- 75	15
75- 80	8
80- 85	5
85- 90	4
90- 95	4
95-100	3
100-105	3
105-110	3
110-115	2
115-120	2
120-125	2
125-130	1
130-135	1
135-140	1
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	18
0- 20	48
0- 30	95
0- 40	158
0- 50	224
0- 60	287
0- 70	336
0- 80	359
0- 90	369
0-100	376
0-110	382
0-120	387
0-130	390
0-140	392
0-150	392
0-160	392
0-170	392
0-180	392

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4/21/2015

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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