

Project Number
15.00746



HUBBELL
Lighting

Date
5/8/2015

LAB 6

Test Sample Description

Catalog Number: P6077-3130K9
Description: Small LED Wall Lantern w/ AC HAL 9W LED Module

Test Method: IES LM-79-08 § 10
Preburn Time: 00:00
Time To Stabilize: 1:30
Total Operating Time: 2:15

Input Voltage (Volts): 120.1
Input Current (Amps): 0.066
Input Wattage (Watts): 7.40
Ambient Temp (°C): 24.4



Hubbell Lighting, Inc.

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

Checked: R. WILLIAMS
Approved: P. McCARTHY

NVLAP
NVLAP LAB CODE: 201003-0

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



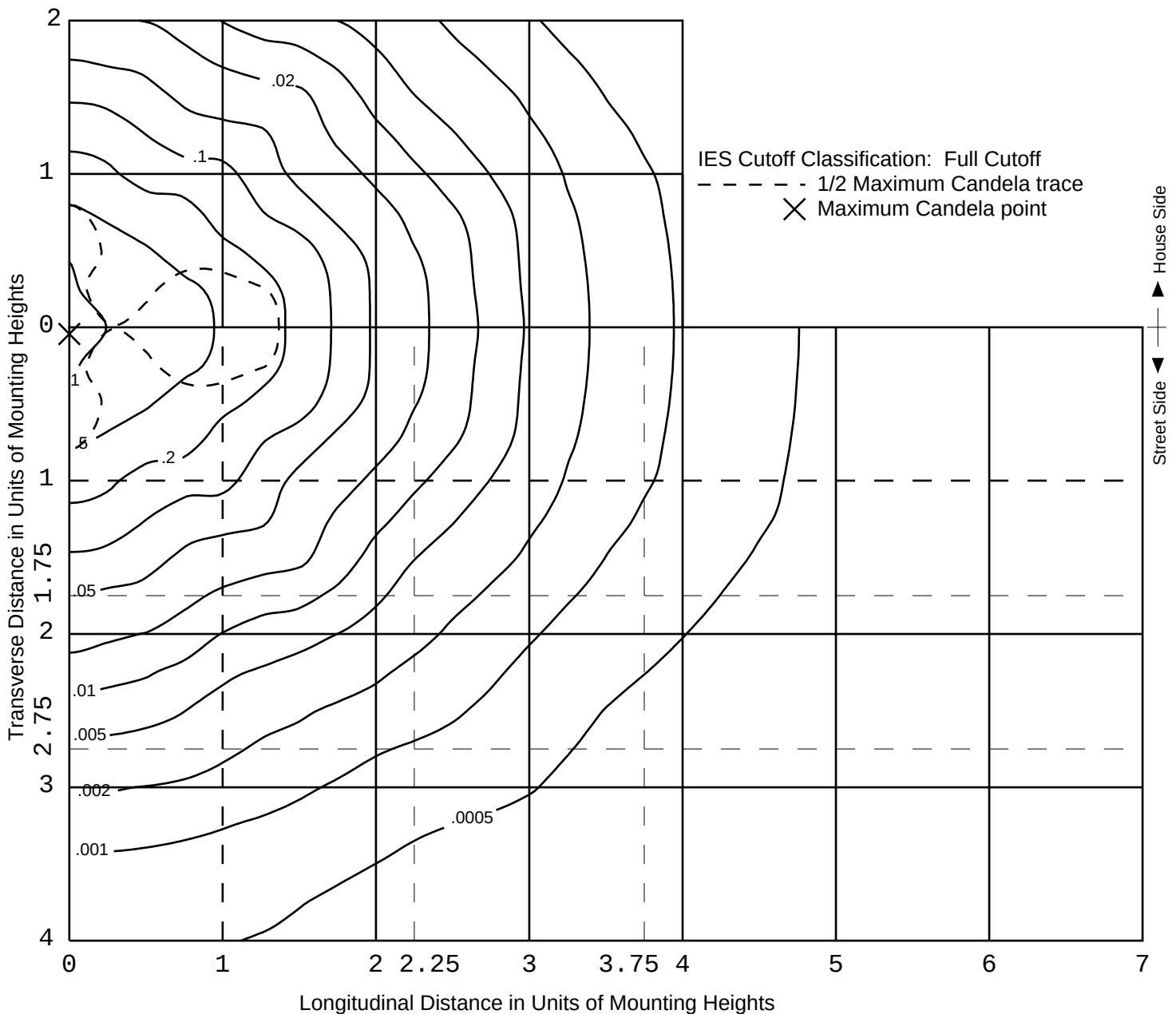
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION PAGE: 2 OF 10
Values based on 10 foot mounting height.

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CATALOG NUMBER: P6077-3130K9
LUMINAIRE: Small LED Wall Lantern w/
AC HAL 9W LED Module
LENS: Clear Seeded Glass - Part
#93060446
LAMP CAT. NO.: 93049180-3130
LAMP: 20- Nichia 3000K LEDs
MOUNTING: Wall
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.





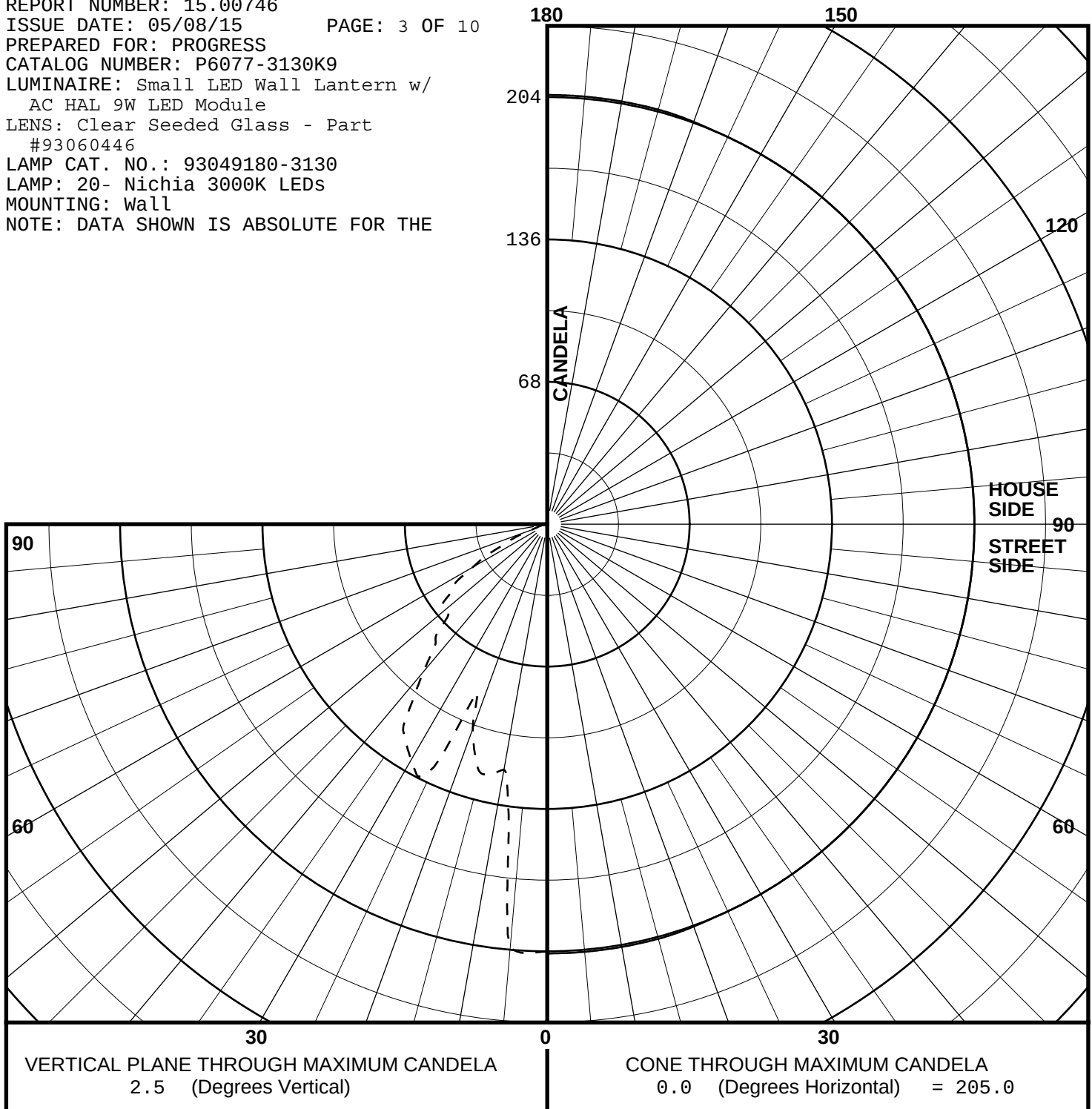
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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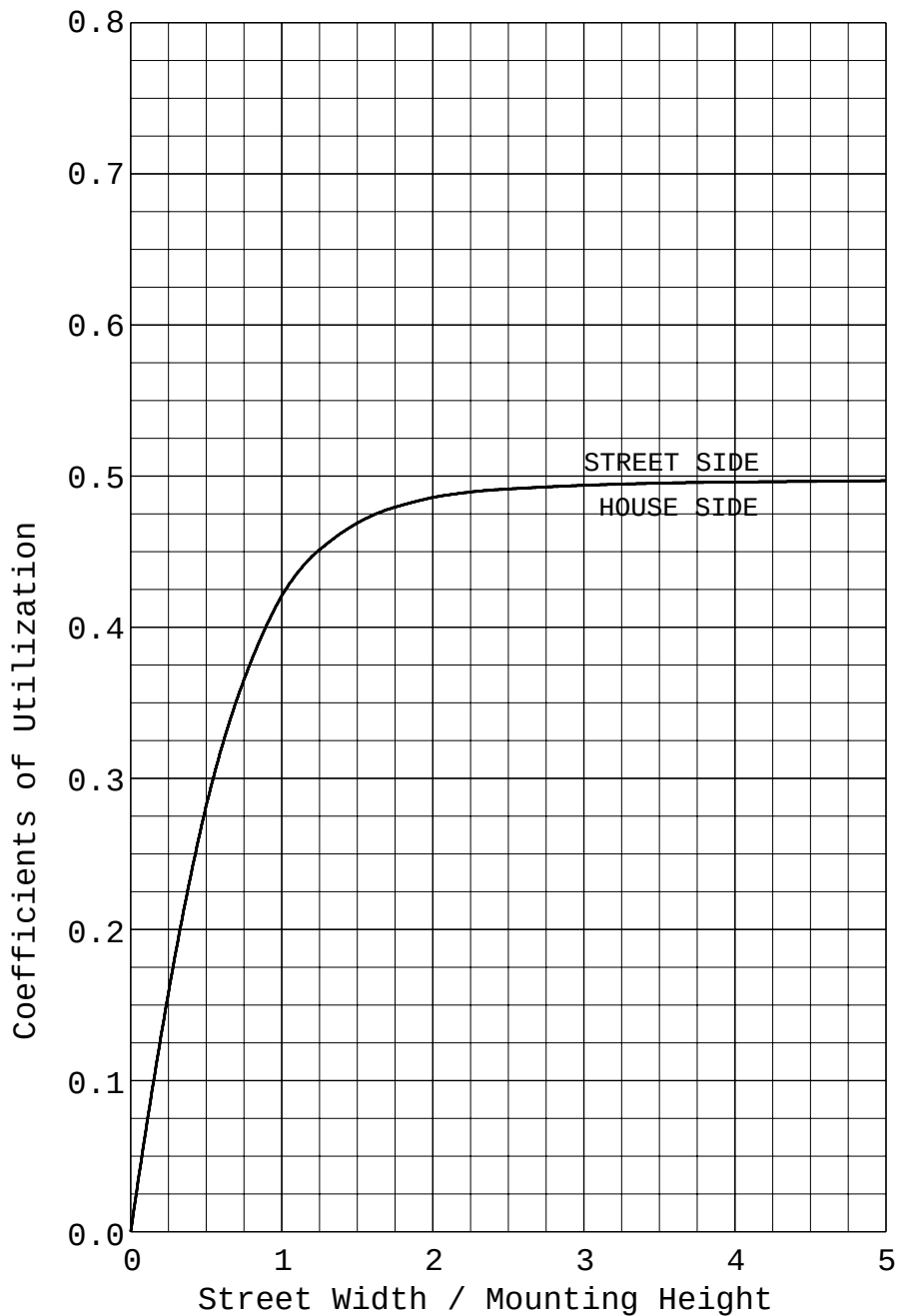
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	155.	50.0
DOWNWARD HOUSE SIDE	155.	50.0
DOWNWARD TOTAL	310.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	310.	100.0
TOTAL INPUT WATTS = 7.4		
EFFICACY = 41.9 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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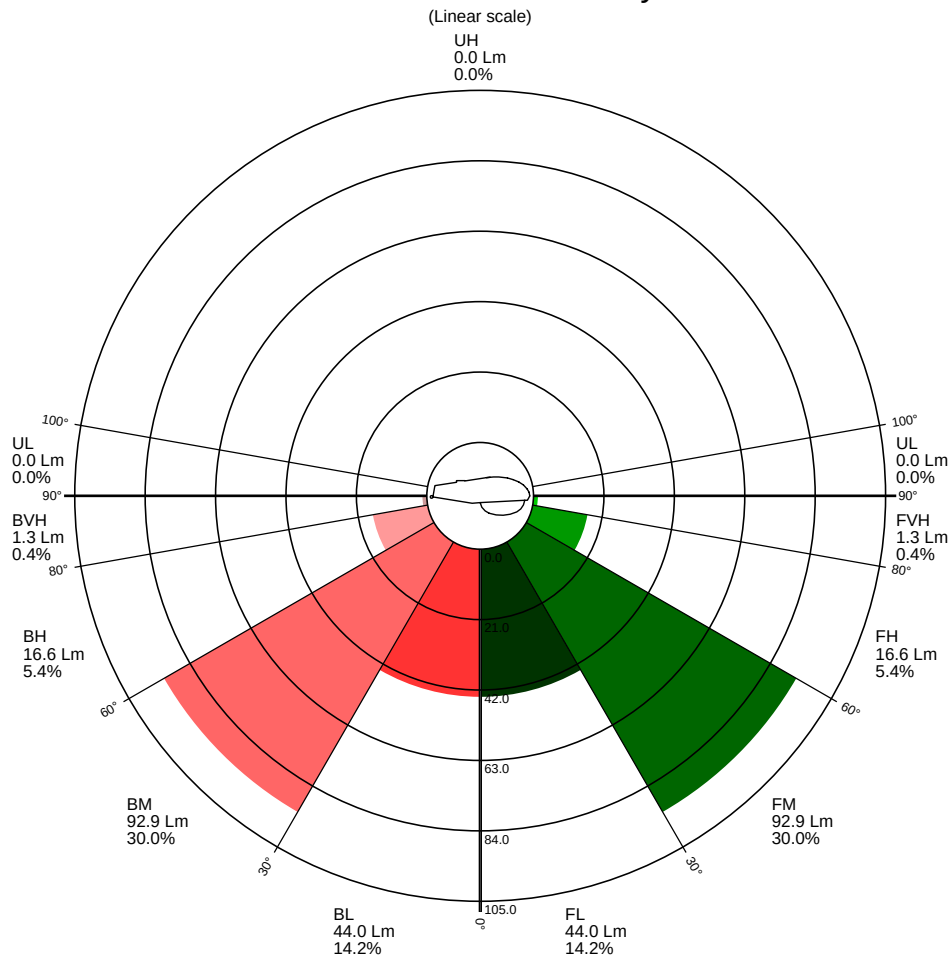


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BUG Rating:				B0	U0	G0
Zonal Summary		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		155	50.0			
FL	(0° - 30°)	44.0	14.2			
FM	(30° - 60°)	92.9	30.0			
FH	(60° - 80°)	16.6	5.4			G0
FVH	(80° - 90°)	1.3	0.4			G0
Backward		155	50.0			
BL	(0° - 30°)	44.0	14.2	B0		
BM	(30° - 60°)	92.9	30.0	B0		
BH	(60° - 80°)	16.6	5.4	B0		G0
BVH	(80° - 90°)	1.3	0.4			G0
Upward		0	0.0			
UL	(90° - 100°)	0.0	0.0		U0	
UH	(100° - 180°)	0.0	0.0		U0	
Trapped Light		0	0.0			
Total Flux		310	100.0			

Zonal Lumen Summary





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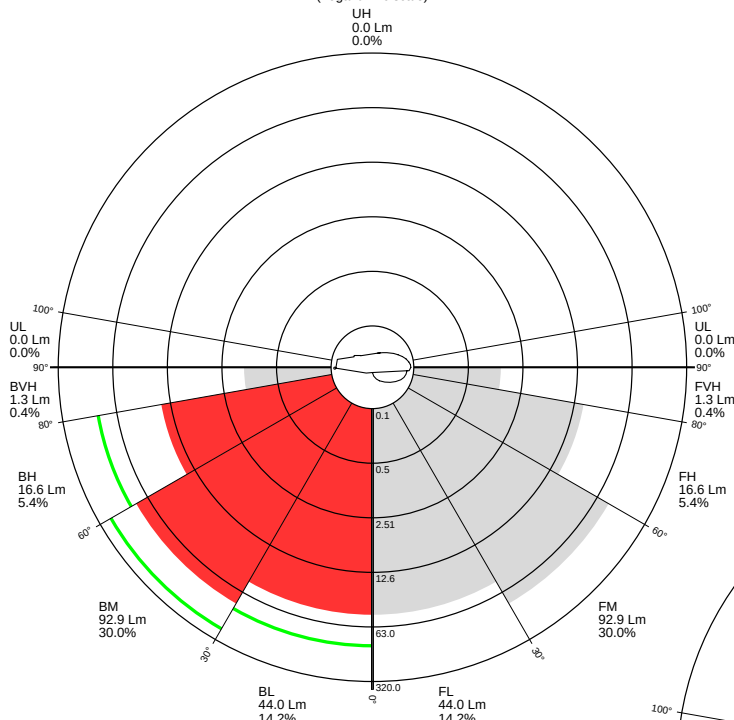
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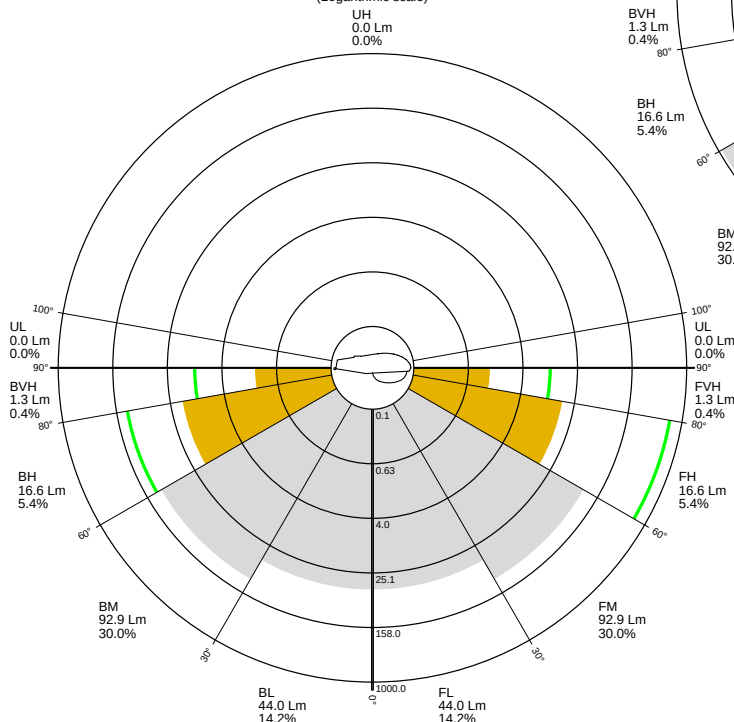
Backlight Rating Details

(Logarithmic scale)



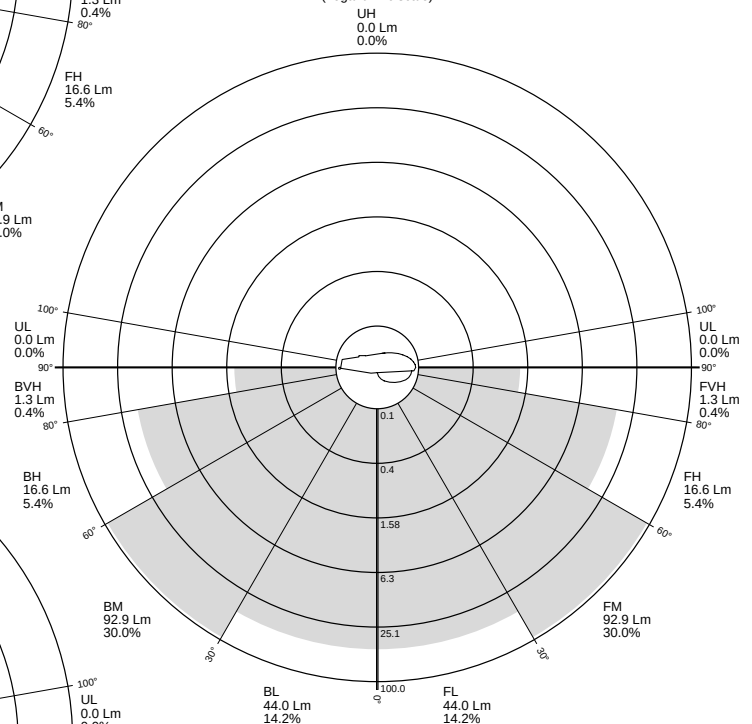
Glare Rating Details

(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	0.	0.	0.	0.	0.	0.	0.	0.	0.
		87.5	1.	1.	1.	1.	1.	1.	2.	2.	2.
		85.0	3.	3.	3.	2.	2.	3.	4.	4.	4.
		82.5	3.	3.	3.	2.	2.	3.	4.	5.	5.
		80.0	3.	3.	3.	3.	3.	4.	4.	5.	5.
		77.5	3.	3.	4.	3.	3.	4.	5.	6.	6.
		75.0	4.	4.	4.	4.	4.	5.	6.	7.	7.
		72.5	5.	5.	5.	5.	5.	6.	7.	9.	10.
		70.0	10.	10.	10.	7.	8.	11.	11.	15.	20.
V	67.5	17.	16.	14.	11.	13.	18.	17.	21.	28.	28.
E	65.0	22.	20.	21.	16.	16.	29.	23.	28.	39.	44.
R	62.5	34.	30.	28.	22.	23.	36.	29.	36.	54.	54.
T	60.0	41.	37.	35.	27.	29.	50.	36.	46.	72.	78.
I	57.5	52.	50.	49.	38.	39.	55.	47.	66.	94.	90.
C	55.0	55.	53.	52.	42.	41.	61.	49.	69.	98.	98.
A	52.5	63.	60.	55.	46.	45.	64.	54.	72.	102.	106.
L	50.0	63.	59.	59.	48.	46.	69.	57.	78.	105.	107.
	47.5	64.	65.	60.	48.	49.	74.	62.	83.	118.	110.
A	45.0	75.	73.	70.	65.	60.	84.	75.	91.	123.	126.
N	42.5	80.	77.	78.	67.	64.	90.	77.	96.	126.	122.
G	40.0	92.	93.	95.	74.	77.	94.	84.	94.	137.	134.
L	37.5	105.	103.	101.	80.	84.	97.	83.	95.	134.	142.
E	35.0	120.	114.	113.	94.	86.	99.	84.	94.	138.	147.
	30.0	130.	129.	132.	101.	94.	100.	92.	96.	130.	141.
	25.0	128.	111.	108.	75.	76.	91.	75.	74.	100.	107.
	20.0	104.	100.	89.	71.	78.	75.	72.	78.	89.	89.
	15.0	123.	126.	113.	108.	102.	98.	100.	97.	101.	106.
	10.0	119.	121.	123.	122.	118.	118.	116.	116.	121.	120.
	5.0	203.	203.	203.	203.	203.	202.	202.	202.	201.	201.
	2.5<<	205.	205.	205.	204.	204.	204.	204.	204.	204.	204.
	0.0	204.	204.	204.	204.	204.	204.	204.	204.	204.	204.

||
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
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
	85.0	4.	4.	4.	3.	3.	2.	2.	3.	3.	3.
	82.5	5.	5.	5.	4.	3.	2.	2.	3.	3.	3.
	80.0	5.	5.	5.	4.	3.	3.	3.	3.	3.	3.
	77.5	6.	6.	6.	5.	4.	3.	3.	4.	3.	3.
	75.0	7.	7.	7.	6.	5.	4.	4.	4.	4.	4.
	72.5	10.	10.	10.	9.	7.	6.	5.	5.	5.	5.
	70.0	21.	20.	22.	15.	11.	11.	8.	7.	10.	10.
V	67.5	28.	28.	28.	21.	17.	18.	13.	11.	14.	17.
E	65.0	42.	44.	39.	28.	23.	29.	16.	16.	21.	22.
R	62.5	52.	54.	54.	36.	29.	36.	23.	22.	28.	34.
T	60.0	74.	78.	72.	46.	36.	50.	29.	27.	35.	41.
I	57.5	92.	90.	94.	66.	47.	55.	39.	38.	49.	50.
C	55.0	97.	98.	98.	69.	49.	61.	41.	42.	52.	53.
A	52.5	110.	106.	102.	72.	54.	64.	45.	46.	55.	60.
L	50.0	109.	107.	105.	78.	57.	69.	46.	48.	59.	59.
	47.5	117.	110.	118.	83.	62.	74.	49.	48.	60.	65.
A	45.0	126.	126.	123.	91.	75.	84.	60.	65.	70.	73.
N	42.5	129.	122.	126.	96.	77.	90.	64.	67.	78.	77.
G	40.0	137.	134.	137.	94.	84.	94.	77.	74.	95.	93.
L	37.5	135.	142.	134.	95.	83.	97.	84.	80.	101.	103.
E	35.0	135.	147.	138.	94.	84.	99.	86.	94.	113.	114.
	30.0	128.	141.	130.	96.	92.	100.	94.	101.	132.	129.
	25.0	109.	107.	100.	74.	75.	91.	76.	75.	108.	111.
	20.0	95.	89.	89.	78.	72.	75.	78.	71.	89.	100.
	15.0	103.	106.	101.	97.	100.	98.	102.	108.	113.	126.
	10.0	121.	120.	121.	116.	116.	118.	118.	122.	123.	121.
	5.0	200.	201.	201.	202.	202.	202.	203.	203.	203.	203.
	2.5<<	204.	204.	204.	204.	204.	204.	204.	204.	205.	205.
	0.0	204.	204.	204.	204.	204.	204.	204.	204.	204.	204.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	5
5- 10	11
10- 15	13
15- 20	16
20- 25	17
25- 30	26
30- 35	33
35- 40	34
40- 45	33
45- 50	31
50- 55	29
55- 60	26
60- 65	17
65- 70	10
70- 75	4
75- 80	2
80- 85	2
85- 90	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	15
0- 20	44
0- 30	88
0- 40	155
0- 50	219
0- 60	274
0- 70	301
0- 80	307
0- 90	310

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Date
5/8/2015

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: 11/24/2014

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	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/11/2015

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