

Project Number  
17.00027



Date  
1/5/2017

LAB 6  
Sphere

### Test Sample Description

Catalog Number: P6426-3130K9  
Description: 1-Lt. LED Post Lantern

### Photometry

Test Method: IES LM-79-08 § 10  
Preburn Time: 15:00  
Time To Stabilize: 0:50  
Total Operating Time: 17:26  
  
Input Voltage (Volts): 120.2  
Input Current (Amps): 0.073  
Input Wattage (Watts): 8.1  
Ambient Temp (°C): P 25.9

### Sphere

Test Method: IES LM-79-08 § 9.1 & 12.1  
Preburn Time: 3:00  
Time To Stabilize: 1:22  
Total Operating Time: 4:22  
  
Input Voltage (Volts): 120.0  
Input Current (Amps): 0.072  
Input Wattage (Watts): 8.1  
Ambient Temp (°C): 24.0  
PF @ 120V: 0.934  
THD @ 120V (%): 39.3



### Hubbell Lighting, Inc.

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

Checked (sphere): B. LEE  
Checked (photometry): M. ELLMANN  
Approved: D. BLACK



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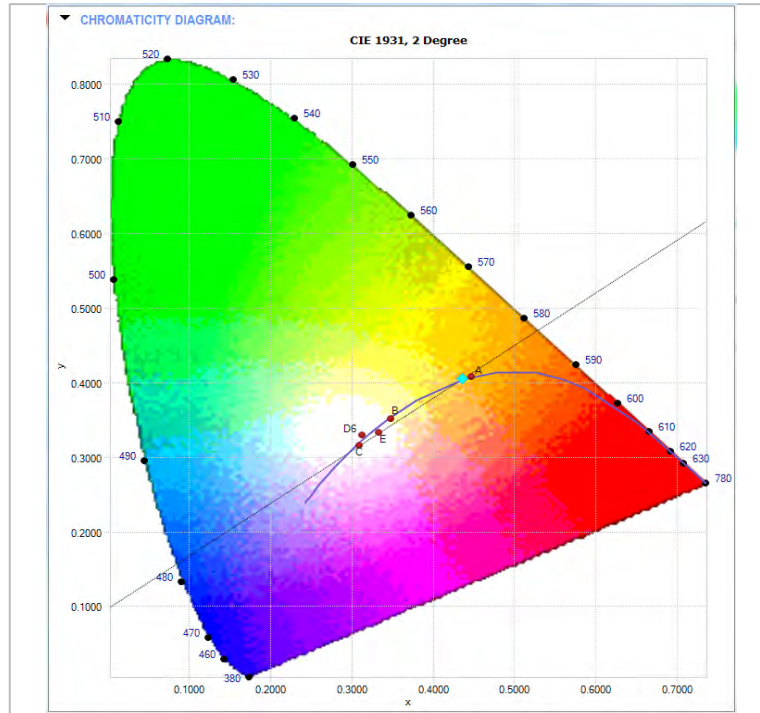


Lamp Cat#: 93049180-3130  
 Lamp Desc: 20 - Nichia 3000K LEDs  
 Driver Desc: n/a

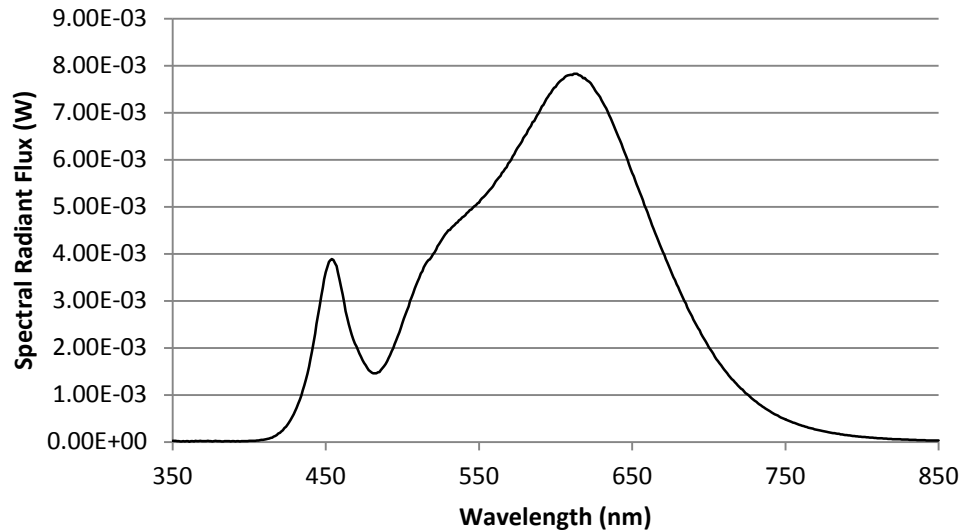
Efficacy: 48.9 LPW      S/P Ratio: 1.4 LM/LM

**Spectral Results**

Name	Value	Unit
$\Phi$	1.30	watts
$\Phi(v)$	396	lumens
$\Phi(v')$	543	lm'
Chrom x	0.4363	
Chrom y	0.4059	
Chrom u	0.2494	
Chrom v	0.348	
Duv	0.0007	
Chrom u'	0.2494	
Chrom v'	0.522	
CCT	3023	K
Purity	52.8	%
$\lambda$ (dom)	582.4	nm
FWHM	153	nm
$\lambda$ (peak)	616.3	nm
$\lambda$ (center)	595.1	nm
$\lambda$ (centroid)	589.8	nm
SDCM	Cool White	
RA	88	
Corr. Coef.	0.000832334	
Correlation	0.0054	
R1	87.7	
R2	92.8	
R3	96.5	
R4	88.1	
R5	87.0	
R6	90.9	
R7	89.4	
R8	73.2	
R9	37.8	
R10	82.2	
R11	88.0	
R12	72.9	
R13	88.9	
R14	97.5	



**Spectral Distribution of Radiant Flux**



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**PREPARED FOR:** PROGRESS

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**LUMINAIRE:** 1-Lt. LED Post Lantern

**LAMP CAT. NO.:** 93049180-3130

**LAMP:** 20-NICHIA 3000K LED's

**REFRACTOR :**Clear Glass

**MOUNTING:** Pole

**NOTE:** NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



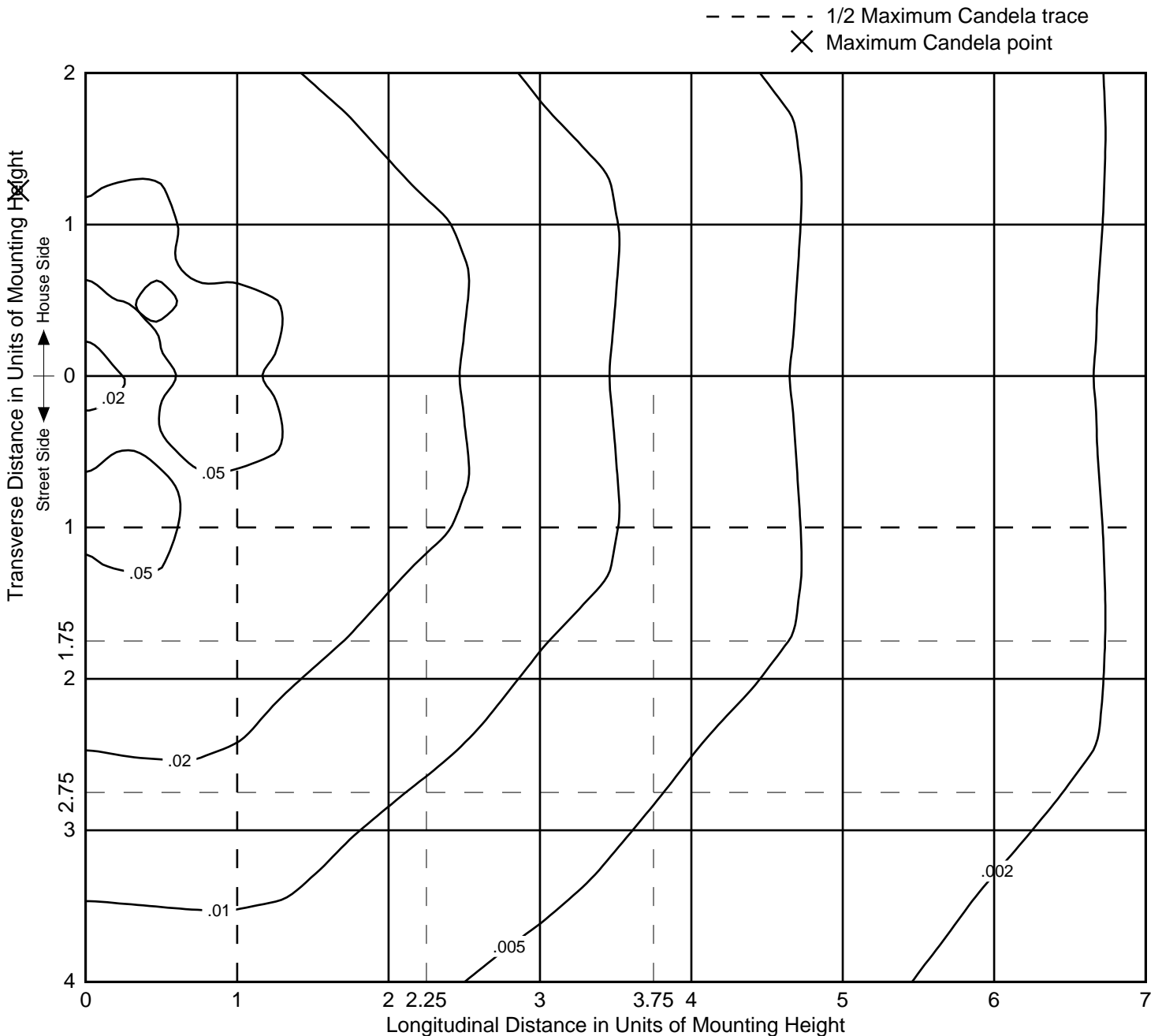
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**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION**  
Values based on 6.5-foot mounting height





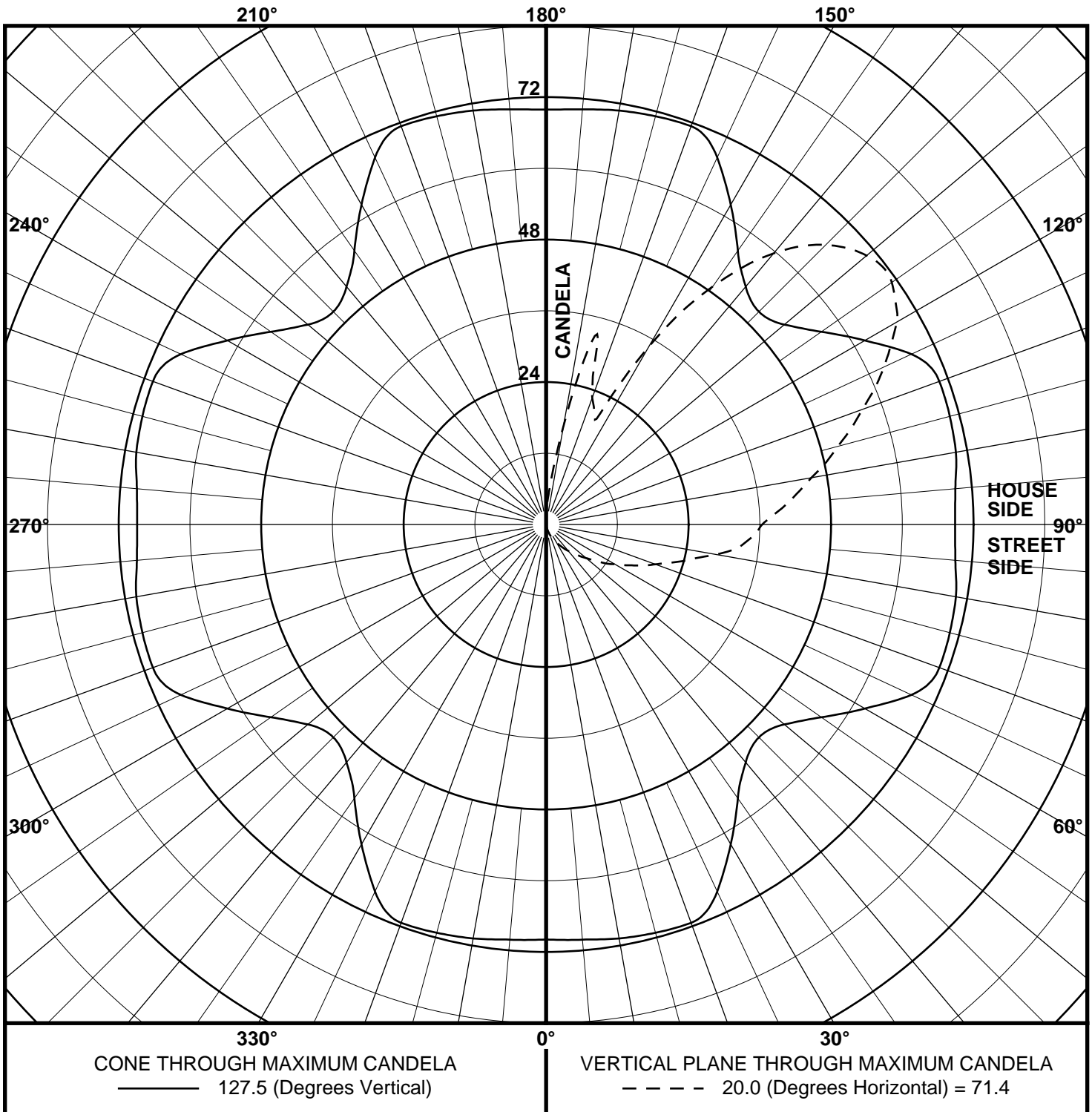
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





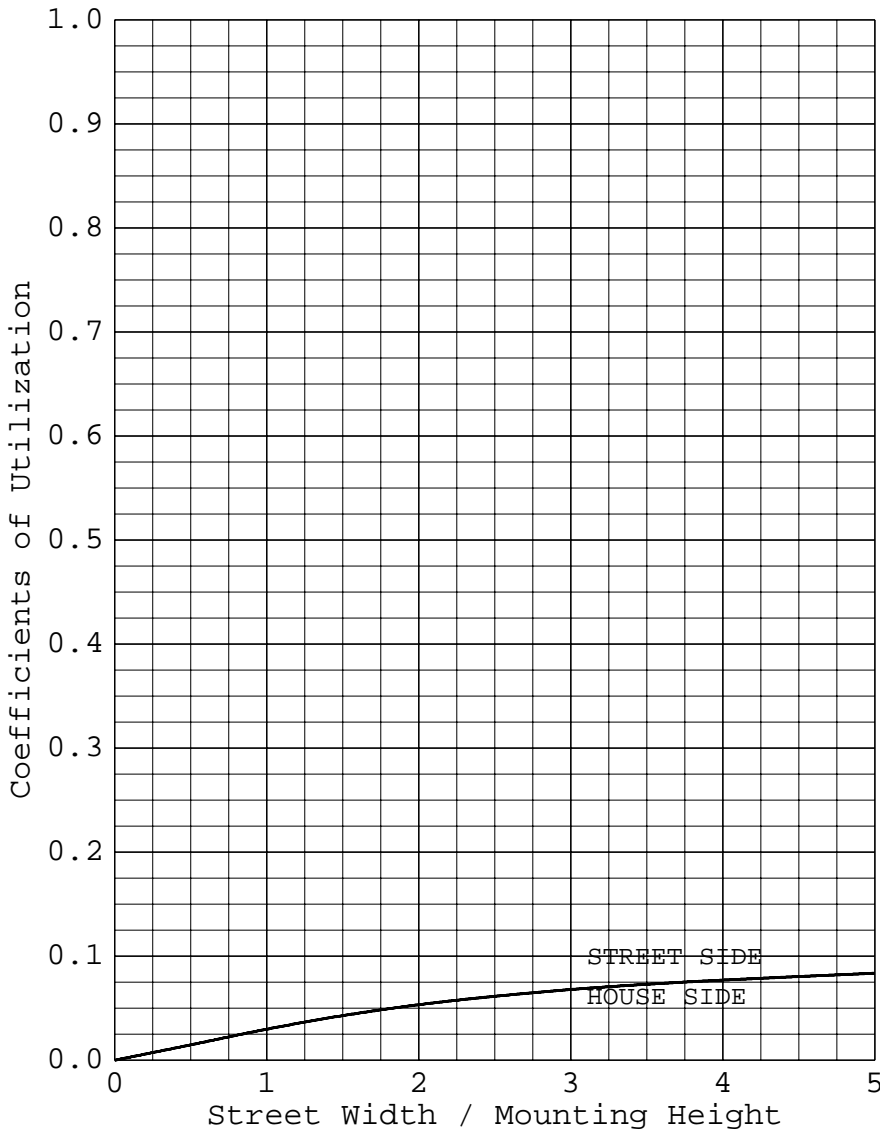
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**COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION**



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	45	11.6
DOWNWARD HOUSE SIDE	45	11.6
DOWNWARD TOTAL	90	23.2
UPWARD STREET SIDE	148	38.4
UPWARD HOUSE SIDE	148	38.4
UPWARD TOTAL	296	76.8
TOTAL FLUX	386	100.0

Total Input Watts = 8.1  
EFFICACY = 47.4 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.



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BUG Rating				B0	U3	G1
Zonal Summary				Zone Ratings		
				B	U	G
Forward			45			
FL	(0° – 30°)		0.7			
FM	(30° – 60°)		8.4			
FH	(60° – 80°)		19.1			G0
FVH	(80° – 90°)		16.6			G1
Backward			45			
BL	(0° – 30°)		0.7	B0		
BM	(30° – 60°)		8.4	B0		
BH	(60° – 80°)		19.1	B0		G0
BVH	(80° – 90°)		16.6			G1
Upward			296			
UL	(90° – 100°)		40.6		U2	
UH	(100° – 180°)		255.8		U3	
Trapped Light			0			
Total Flux			386			



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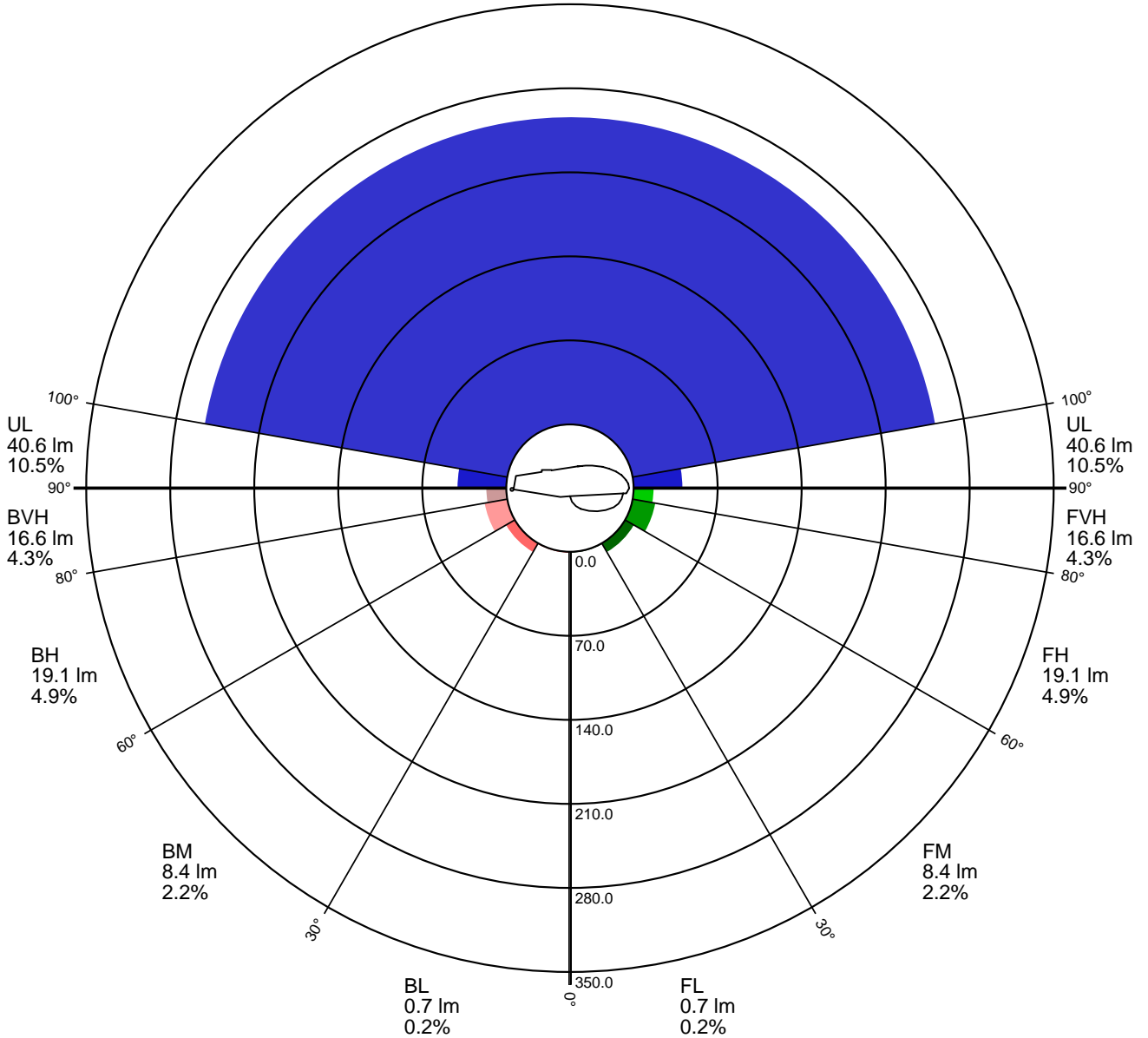
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## Zonal Lumen Summary

(Linear scale)

UH  
255.8 lm  
66.2%







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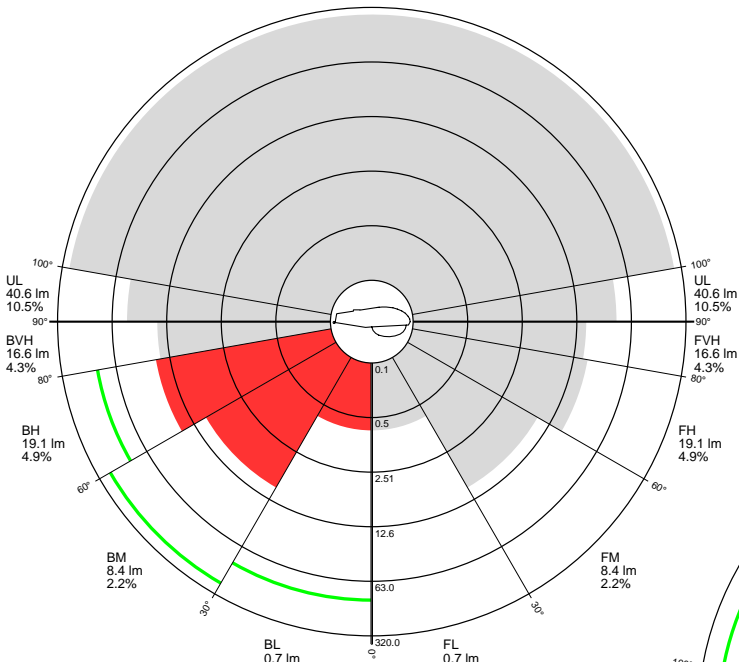
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**Backlight Rating Details**

(Logarithmic scale)

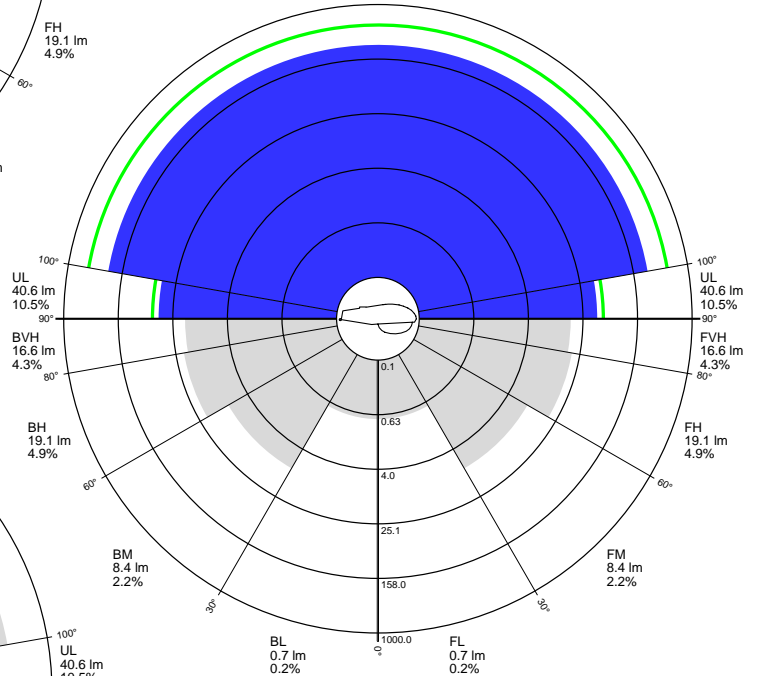
UH  
255.8 lm  
66.2%



**Uplight Rating Details**

(Logarithmic scale)

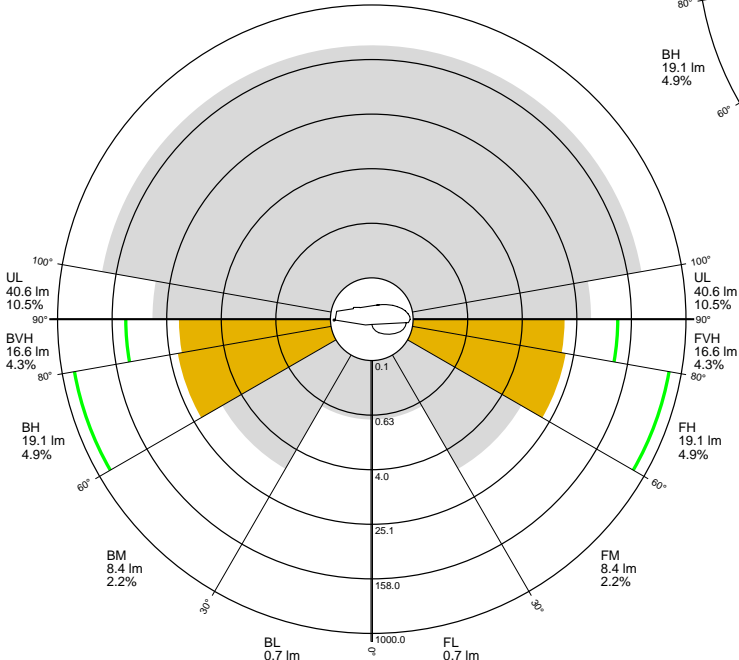
UH  
255.8 lm  
66.2%



**Glare Rating Details**

(Logarithmic scale)

UH  
255.8 lm  
66.2%



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CANDELA TABULATION

	LATERAL ANGLE							
	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
180.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
175.0	5.7	5.7	5.7	5.7	5.7	5.6	5.7	5.6
165.0	31.3	33.1	33.8	33.7	32.8	31.5	30.5	29.5
155.0	27.1	23.8	20.7	19.7	19.6	19.0	17.8	17.7
145.0	34.6	42.6	47.6	49.6	49.2	49.0	48.5	48.2
135.0	51.8	58.1	64.1	66.4	66.1	66.3	66.0	65.6
127.5<<	56.6	62.0	67.9	70.5	70.4	70.1	69.2	68.9
125.0	56.6	61.7	67.5	70.2	69.9	69.4	68.4	67.9
115.0	51.7	55.0	59.7	62.4	61.5	60.3	58.8	58.0
105.0	43.5	45.1	48.6	50.8	49.4	47.7	45.8	44.8
95.0	35.8	36.4	38.8	40.6	39.1	37.1	35.4	34.8
92.5	33.8	34.5	36.6	38.3	36.8	34.9	33.4	32.5
90.0	32.6	32.8	34.7	36.3	34.8	32.8	31.4	30.6
87.5	31.5	31.6	33.3	34.8	33.4	31.4	29.8	29.1
85.0	30.0	30.2	31.8	33.7	31.9	30.1	28.6	28.0
82.5	27.9	28.3	29.9	31.8	30.0	28.4	27.0	26.4
80.0	25.5	26.0	27.6	29.2	28.0	26.4	25.3	24.8
77.5	23.0	23.4	24.9	26.2	25.3	23.9	22.9	22.3
75.0	20.9	21.3	22.6	23.8	23.1	21.9	20.9	20.4
72.5	18.9	19.4	20.5	21.6	21.1	20.0	19.2	18.8
70.0	17.0	17.5	18.6	19.5	19.1	18.3	17.5	17.1
67.5	15.5	16.0	17.0	17.9	17.5	16.8	16.1	15.7
65.0	14.1	14.6	15.5	16.3	16.0	15.3	14.7	14.2
62.5	12.7	13.1	14.0	14.8	14.5	14.0	13.4	13.0
60.0	11.4	11.9	12.7	13.5	13.2	12.8	12.3	11.8
57.5	10.3	10.8	11.5	12.2	12.0	11.5	11.2	10.8
55.0	9.3	9.7	10.3	10.9	10.8	10.3	10.1	9.8
52.5	8.4	8.7	9.3	9.9	9.7	9.3	9.0	8.8
50.0	7.5	7.8	8.4	8.8	8.7	8.3	8.2	8.0
47.5	6.8	7.2	7.6	8.0	7.9	7.6	7.4	7.3
45.0	6.0	6.3	6.8	7.0	6.9	6.6	6.4	6.3
42.5	5.4	5.7	6.1	6.4	6.3	6.0	5.8	5.6
40.0	5.0	5.2	5.6	5.8	5.8	5.5	5.3	5.2
37.5	4.5	4.8	5.0	5.3	5.2	4.9	4.8	4.7
35.0	4.0	4.3	4.5	4.6	4.5	4.3	4.1	4.2
30.0	3.1	3.3	3.5	3.6	3.6	3.4	3.3	3.3
25.0	2.2	2.3	2.4	2.6	2.6	2.6	2.6	2.5
20.0	1.4	1.4	1.6	1.8	1.8	1.9	1.9	1.9
15.0	0.8	0.9	1.0	0.9	1.1	1.1	1.1	1.1
10.0	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
5.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1
0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

CONE OF MAXIMUM CANDELA

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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	0
5-	10	0
10-	15	0
15-	20	0
20-	25	0
25-	30	1
30-	35	1
35-	40	2
40-	45	2
45-	50	3
50-	55	4
55-	60	5
60-	65	7
65-	70	8
70-	75	10
75-	80	13
80-	85	16
85-	90	18
90-	95	19
95-	100	21
100-	105	23
105-	110	26
110-	115	27
115-	120	29
120-	125	29
125-	130	28
130-	135	25
135-	140	21
140-	145	16
145-	150	11
150-	155	7
155-	160	5
160-	165	5
165-	170	3
170-	175	1
175-	180	0

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	0
10-	20	0
20-	30	1
30-	40	3
40-	50	5
50-	60	9
60-	70	15
70-	80	23
80-	90	33
90-	100	41
100-	110	49
110-	120	56
120-	130	57
130-	140	46
140-	150	27
150-	160	12
160-	170	8
170-	180	1

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Date  
1/5/2017

### *Goniophotometer Calibration*

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

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 09/02/2016

### *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	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/2/2017

### *Sphere Calibration*

Calibration Lamp: EIKO 28V75W/E10

Lamp Number: SCL-1400-J136

Calibration Current: 2.679 Amps

Total Luminous Flux: 1427 Lumens

### *Test Equipment Used - Color & SPD; THD & Power Factor*

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>3-Meter Sphere</i>	Labsphere / LMS-3M	N/A	Calibrated Weekly
<i>Thermometer</i>	National Instruments / USB TC01	1912751	11/2/2017
<i>LAMP Power Meter</i>	Yokogawa / WT332	C2QA27075V	11/1/2017
<i>Power Supply</i>	Chroma / 61602	616020002113	N/A
<i>Power Supply PF/THD</i>	Voltage-Regulated House Power	N/A	N/A
<i>Aux Lamp Supply</i>	Labsphere / LPS-100-0833	031159372	10/31/2017
<i>Cal Lamp Supply</i>	Labsphere / LPS-150-0268	1218148505	12/1/2017
<i>Spectrometer</i>	Labsphere / CDS 1100	0624117792	N/A

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