

Project Number
15.00512



HUBBELL
Lighting

Date
4/6/2015

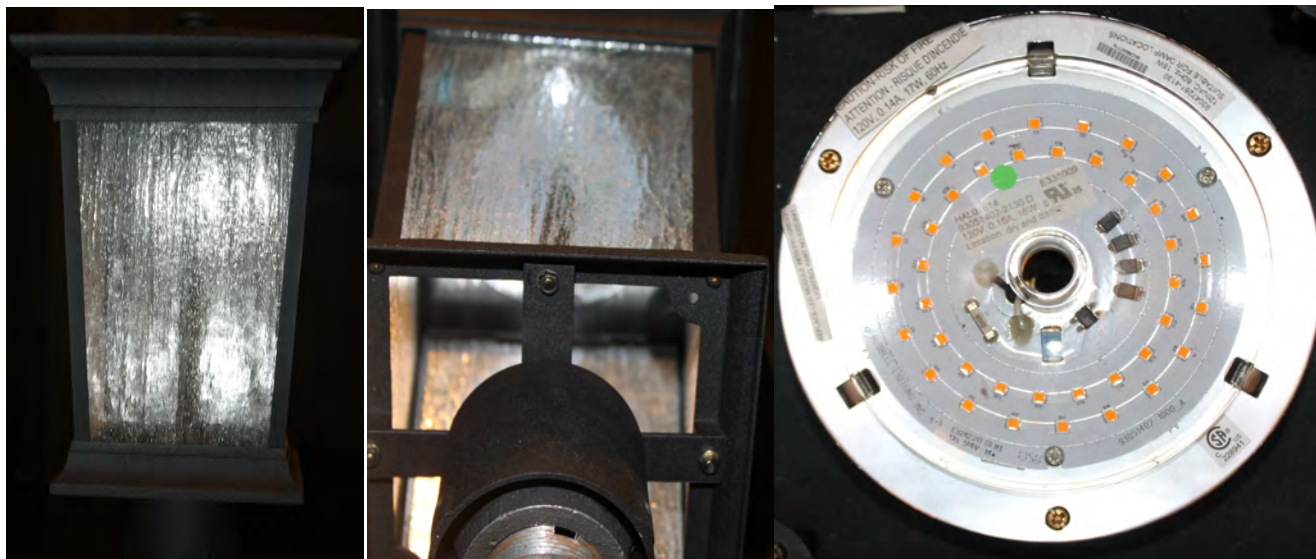
LAB 1

Test Sample Description

Catalog Number: P6427-3130K9
Description: "ARRIVE" Post Lantern

Test Method: IES LM-79-08 § 10
Preburn Time: 00:15
Time To Stabilize: 1:50
Total Operating Time: 4:05

Input Voltage (Volts): 120.2
Input Current (Amps): 0.148
Input Wattage (Watts): 16.5
Ambient Temp (°C): 25.2



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Checked: D. ROBBINS
Approved: M. WASHBURN





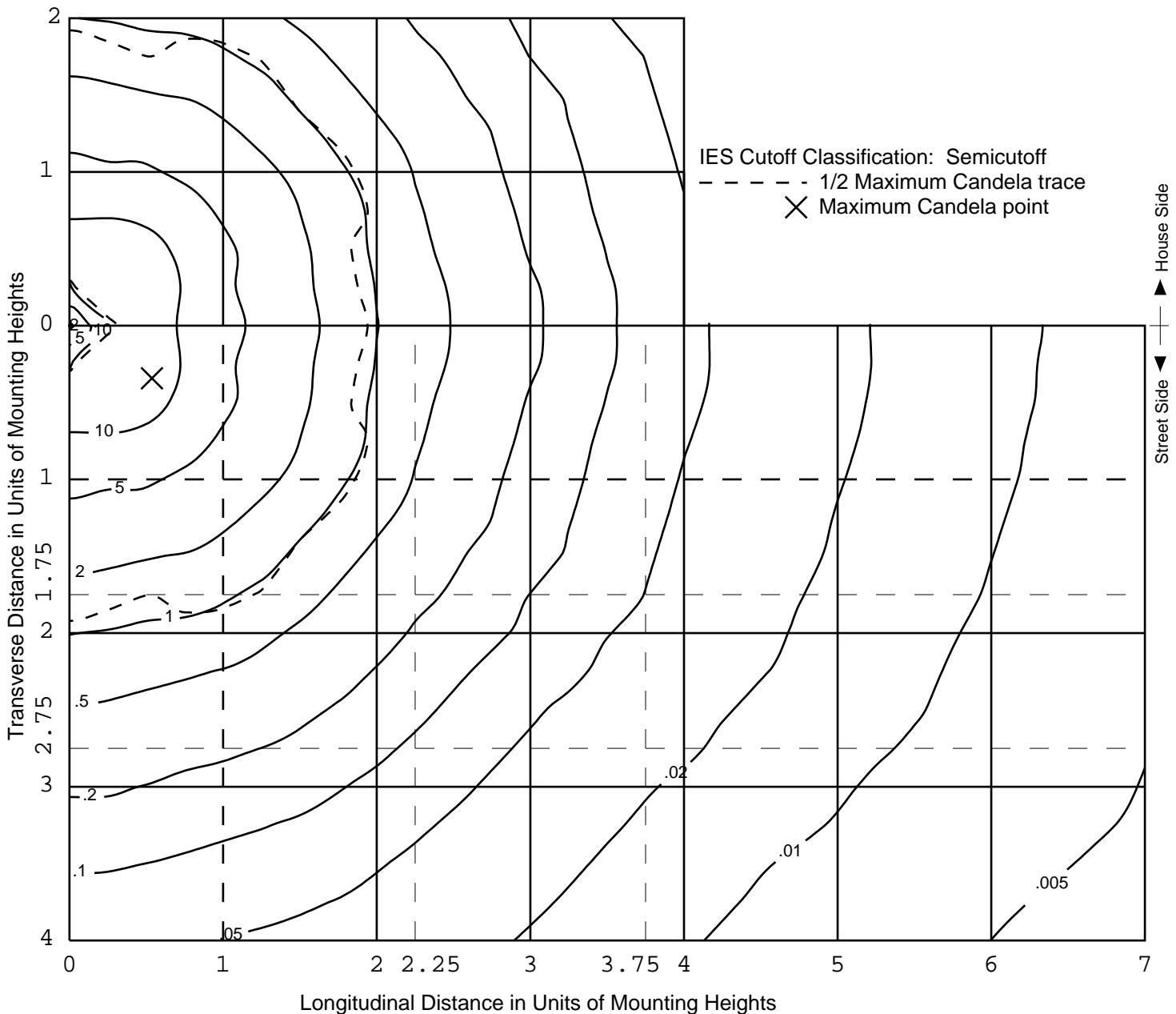
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 3 foot mounting height.

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CATALOG NUMBER: P6427-3130K9
LUMINAIRE: "ARRIVE" Post Lantern
LAMP CAT. NO.: 93047261-4130 Module
LAMP: 40 - Nichia 3000K
BALLAST: AC / 120V - HAL 17W, 120V module
MOUNTING: Post
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.





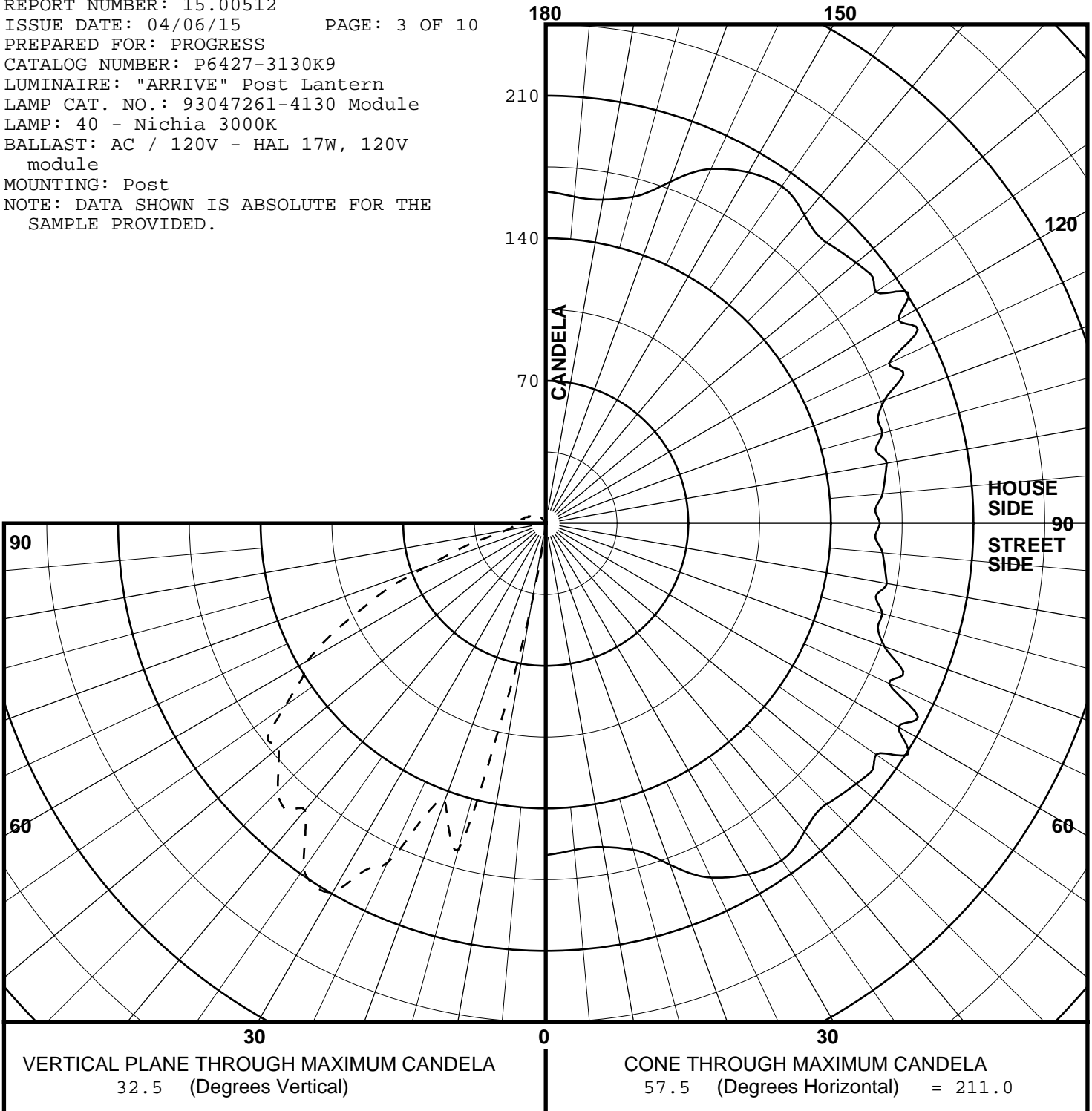
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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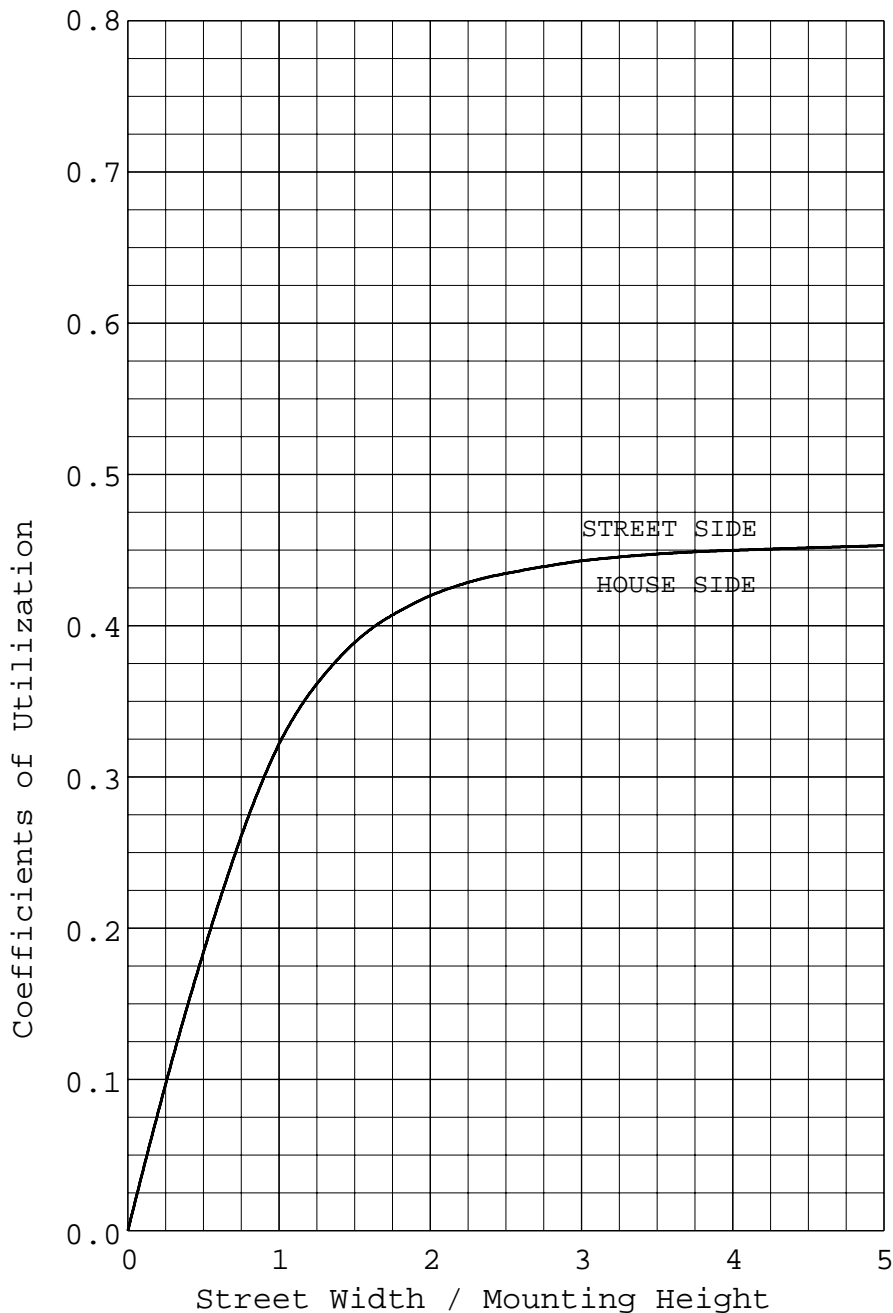
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	320.	46.4
DOWNWARD HOUSE SIDE	320.	46.4
DOWNWARD TOTAL	640.	92.8
UPWARD STREET SIDE	25.	3.6
UPWARD HOUSE SIDE	25.	3.6
UPWARD TOTAL	49.	7.2
TOTAL FLUX	689.	100.0
TOTAL INPUT WATTS = 16.5		
EFFICACY = 41.8 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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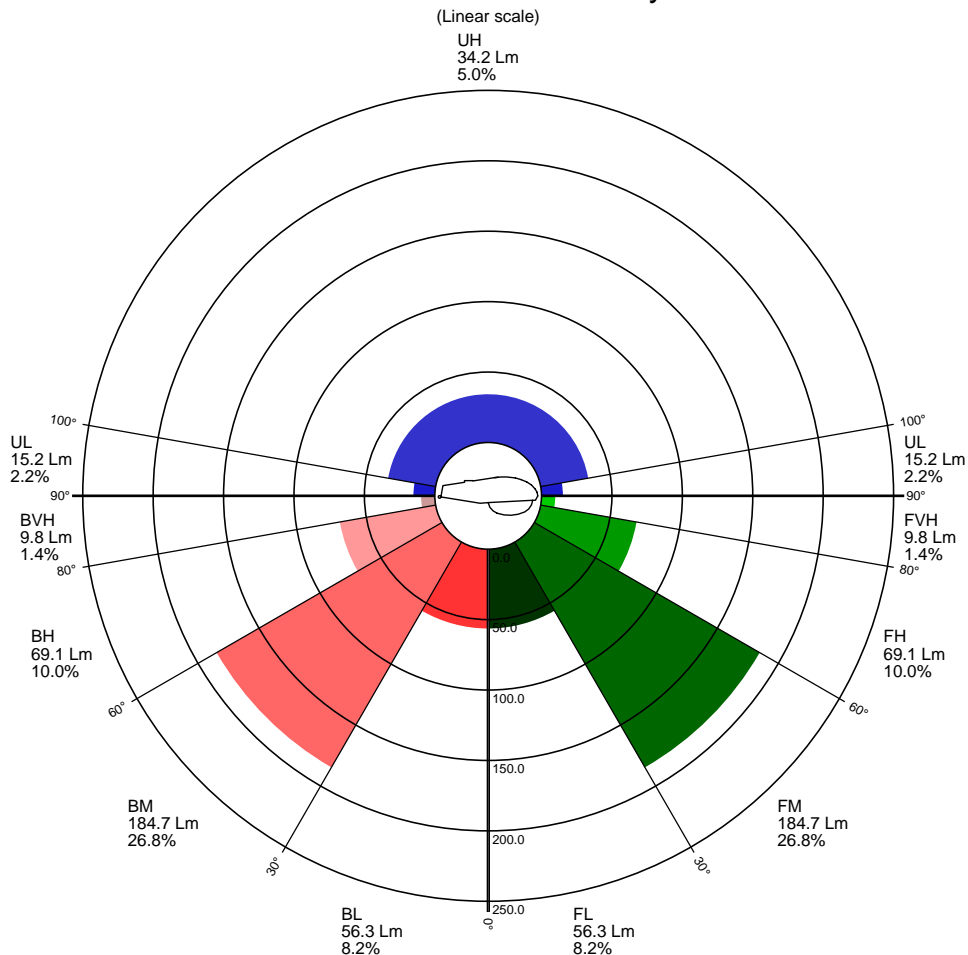


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BUG Rating:			B0 U2 G0		
Zonal Summary			Lumens	% of Fixture	Zone Ratings
			B U G		
Forward			320	46.4	
FL	(0° - 30°)		56.3	8.2	
FM	(30° - 60°)		184.7	26.8	
FH	(60° - 80°)		69.1	10.0	G0
FVH	(80° - 90°)		9.8	1.4	G0
Backward			320	46.4	
BL	(0° - 30°)		56.3	8.2	B0
BM	(30° - 60°)		184.7	26.8	B0
BH	(60° - 80°)		69.1	10.0	B0
BVH	(80° - 90°)		9.8	1.4	G0
Upward			49	7.2	
UL	(90° - 100°)		15.2	2.2	U2
UH	(100° - 180°)		34.2	5.0	U2
Trapped Light			0	0.0	
Total Flux			689	100.0	

Zonal Lumen Summary





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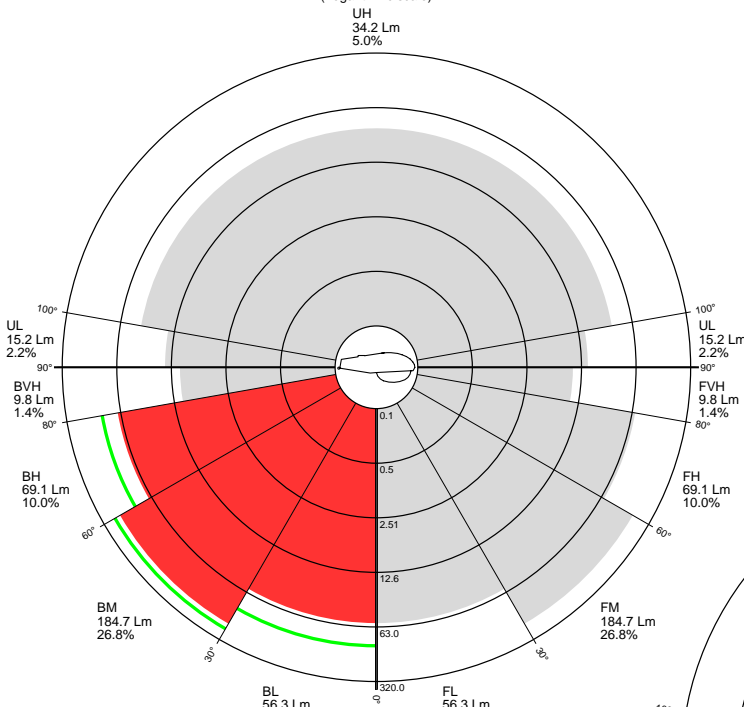
NVLAP LAB CODE: 201003-0

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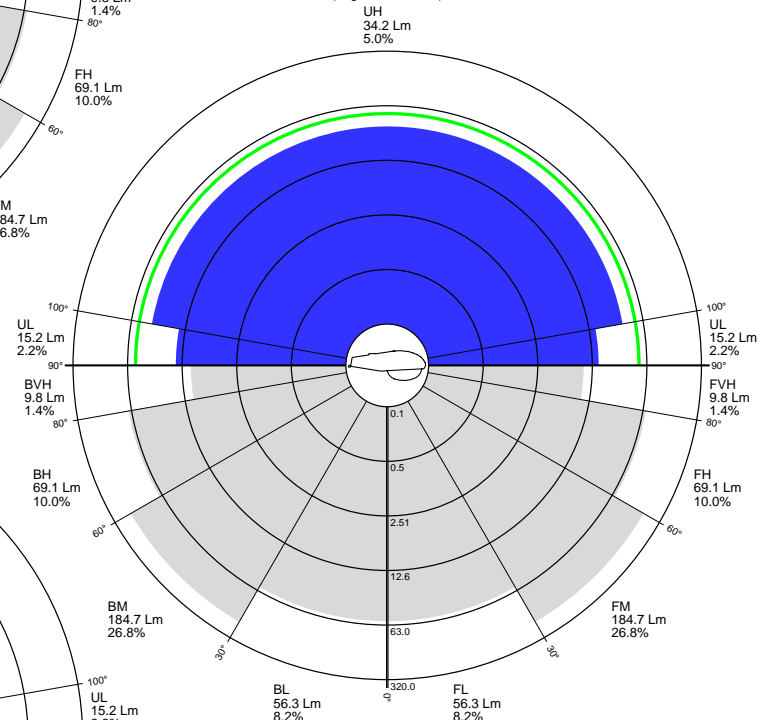
Backlight Rating Details

(Logarithmic scale)



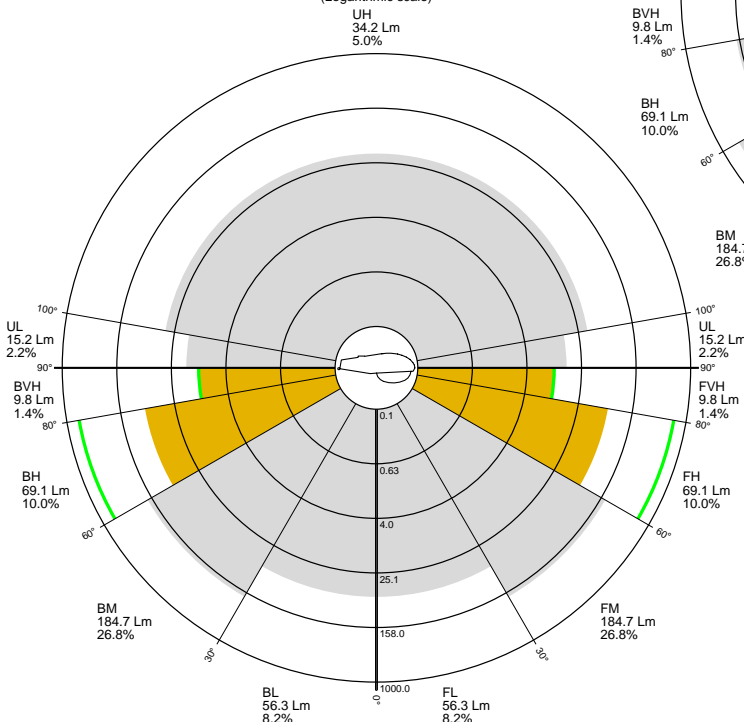
Uplight Rating Details

(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	57.5	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	7.	7.	7.	6.	5.	5.	5.	6.	7.	7.
	125.0	9.	9.	8.	8.	6.	6.	6.	8.	8.	9.
	115.0	11.	11.	10.	10.	8.	7.	8.	10.	11.	11.
	105.0	13.	13.	13.	12.	10.	9.	10.	12.	13.	14.
	95.0	16.	16.	15.	14.	12.	10.	12.	14.	15.	16.
	90.0	17.	17.	17.	16.	14.	12.	14.	16.	17.	18.
	87.5	18.	18.	18.	17.	15.	13.	15.	17.	18.	19.
	85.0	20.	19.	19.	18.	15.	14.	16.	18.	19.	20.
	82.5	21.	21.	21.	20.	17.	15.	17.	20.	21.	21.
V	80.0	25.	25.	24.	22.	19.	18.	19.	22.	23.	25.
E	77.5	31.	31.	30.	30.	26.	24.	27.	30.	29.	31.
R	75.0	41.	41.	38.	39.	37.	35.	39.	40.	38.	41.
T	72.5	56.	56.	50.	53.	52.	49.	52.	54.	50.	56.
I	70.0	72.	74.	63.	68.	66.	64.	63.	67.	64.	74.
C	67.5	86.	84.	79.	85.	83.	81.	85.	84.	78.	88.
A	65.0	97.	94.	89.	101.	105.	99.	104.	101.	93.	99.
L	62.5	105.	103.	98.	116.	119.	118.	124.	119.	102.	110.
	60.0	114.	114.	110.	124.	128.	130.	136.	126.	112.	120.
A	57.5	123.	122.	116.	135.	138.	141.	142.	132.	120.	127.
N	55.0	136.	135.	122.	146.	150.	152.	153.	148.	128.	133.
G	52.5	140.	142.	131.	153.	160.	165.	162.	154.	133.	144.
L	50.0	150.	146.	138.	165.	161.	172.	165.	164.	143.	149.
E	47.5	153.	151.	145.	165.	167.	176.	182.	174.	150.	156.
	45.0	155.	157.	147.	178.	176.	178.	181.	174.	148.	161.
	42.5	160.	158.	152.	179.	186.	191.	187.	181.	159.	161.
	40.0	165.	163.	163.	184.	183.	192.	194.	183.	163.	161.
	37.5	168.	166.	164.	186.	185.	197.	192.	192.	165.	166.
	35.0	166.	165.	166.	189.	194.	199.	199.	207.	185.	166.
	32.5<<	163.	161.	166.	192.	202.	195.	198.	211.	186.	166.
	30.0	156.	159.	160.	179.	199.	193.	204.	209.	188.	164.
	25.0	139.	146.	147.	158.	177.	171.	177.	184.	162.	147.
	20.0	145.	148.	154.	159.	152.	150.	145.	145.	151.	155.
	15.0	124.	113.	119.	147.	168.	167.	160.	166.	138.	119.
	10.0	63.	64.	56.	46.	36.	37.	43.	41.	44.	52.
	5.0	1.	1.	1.	1.	1.	1.	2.	1.	1.	1.
	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

||
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	7.	7.	7.	6.	5.	5.	5.	6.	7.	7.	7.
125.0	9.	9.	8.	8.	6.	6.	6.	8.	8.	9.	9.
115.0	11.	11.	11.	10.	8.	7.	8.	10.	10.	11.	11.
105.0	14.	14.	13.	12.	10.	9.	10.	12.	13.	13.	13.
95.0	16.	16.	15.	14.	12.	10.	12.	14.	15.	16.	16.
90.0	18.	18.	17.	16.	14.	12.	14.	16.	17.	17.	17.
87.5	19.	19.	18.	17.	15.	13.	15.	17.	18.	18.	18.
85.0	20.	20.	19.	18.	16.	14.	15.	18.	19.	19.	20.
82.5	22.	21.	21.	20.	17.	15.	17.	20.	21.	21.	21.
V 80.0	25.	25.	23.	22.	19.	18.	19.	22.	24.	25.	25.
E 77.5	31.	31.	29.	30.	27.	24.	26.	30.	30.	31.	31.
R 75.0	41.	41.	38.	40.	39.	35.	37.	39.	38.	41.	41.
T 72.5	56.	56.	50.	54.	52.	49.	52.	53.	50.	56.	56.
I 70.0	77.	74.	64.	67.	63.	64.	66.	68.	63.	74.	72.
C 67.5	88.	88.	78.	84.	85.	81.	83.	85.	79.	84.	86.
A 65.0	96.	99.	93.	101.	104.	99.	105.	101.	89.	94.	97.
L 62.5	106.	110.	102.	115.	124.	118.	119.	116.	98.	103.	105.
60.0	117.	120.	112.	126.	136.	130.	128.	124.	110.	114.	114.
A 57.5	126.	127.	120.	132.	142.	141.	138.	135.	116.	122.	123.
N 55.0	134.	133.	128.	148.	153.	152.	150.	146.	122.	135.	136.
G 52.5	147.	144.	133.	154.	162.	165.	160.	153.	131.	142.	140.
L 50.0	151.	149.	143.	164.	165.	172.	161.	165.	138.	146.	150.
E 47.5	154.	156.	150.	174.	182.	176.	167.	165.	145.	151.	153.
45.0	162.	161.	148.	174.	181.	178.	176.	178.	147.	157.	155.
42.5	168.	161.	159.	181.	187.	191.	186.	179.	152.	158.	160.
40.0	168.	161.	163.	183.	194.	192.	183.	184.	163.	163.	165.
37.5	166.	166.	165.	192.	192.	197.	185.	186.	164.	166.	168.
35.0	167.	169.	166.	185.	199.	199.	194.	189.	166.	165.	166.
32.5<<	164.	166.	171.	186.	198.	195.	202.	192.	166.	161.	163.
30.0	164.	164.	164.	188.	204.	193.	199.	179.	160.	159.	156.
25.0	141.	141.	147.	162.	177.	171.	177.	158.	147.	146.	139.
20.0	151.	155.	156.	151.	145.	150.	152.	159.	154.	148.	145.
15.0	118.	119.	114.	138.	160.	167.	168.	147.	119.	113.	124.
10.0	56.	52.	44.	46.	43.	37.	36.	46.	56.	64.	63.
5.0	1.	1.	1.	1.	2.	1.	1.	1.	1.	1.	1.
0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	11
15- 20	25
20- 25	32
25- 30	43
30- 35	54
35- 40	60
40- 45	64
45- 50	66
50- 55	65
55- 60	61
60- 65	54
65- 70	42
70- 75	27
75- 80	16
80- 85	11
85- 90	9
90- 95	8
95-100	7
100-105	6
105-110	6
110-115	5
115-120	4
120-125	4
125-130	3
130-135	3
135-140	2
140-145	1
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	1
0- 20	37
0- 30	113
0- 40	226
0- 50	356
0- 60	482
0- 70	577
0- 80	620
0- 90	640
0-100	655
0-110	667
0-120	677
0-130	683
0-140	688
0-150	689
0-160	689
0-170	689
0-180	689

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Date
4/6/2015

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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