

Project Number
15.00942



HUBBELL
Lighting

Date
6/5/2015

LAB 1

Test Sample Description

Catalog Number: 9458632030K9

Description: 1-Lt. Wall Lantern 9" (lrgwallltn) w/HAL AC LED Module

Test Method: IES LM-79-08 § 10

Preburn Time: 00:00

Time To Stabilize: 2:31

Total Operating Time: 4:47

Input Voltage (Volts): 120.2

Input Current (Amps): 0.069

Input Wattage (Watts): 7.8

Ambient Temp (°C): 25.1



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Checked: D. BLACK
Approved: M. WASHBURN

NVLAP[®]
NVLAP LAB CODE: 201003-0



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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 6 foot mounting height.

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PREPARED FOR: PROGRESS

CATALOG NUMBER: 9458632030K9

LUMINAIRE: 1-Lt. Wall Lantern 9"
(lrgwallltn) w/HAL AC LED Module

REFRACTOR: Etched Seeded Part #93019347

LAMP CAT. NO.: 93049180-3130

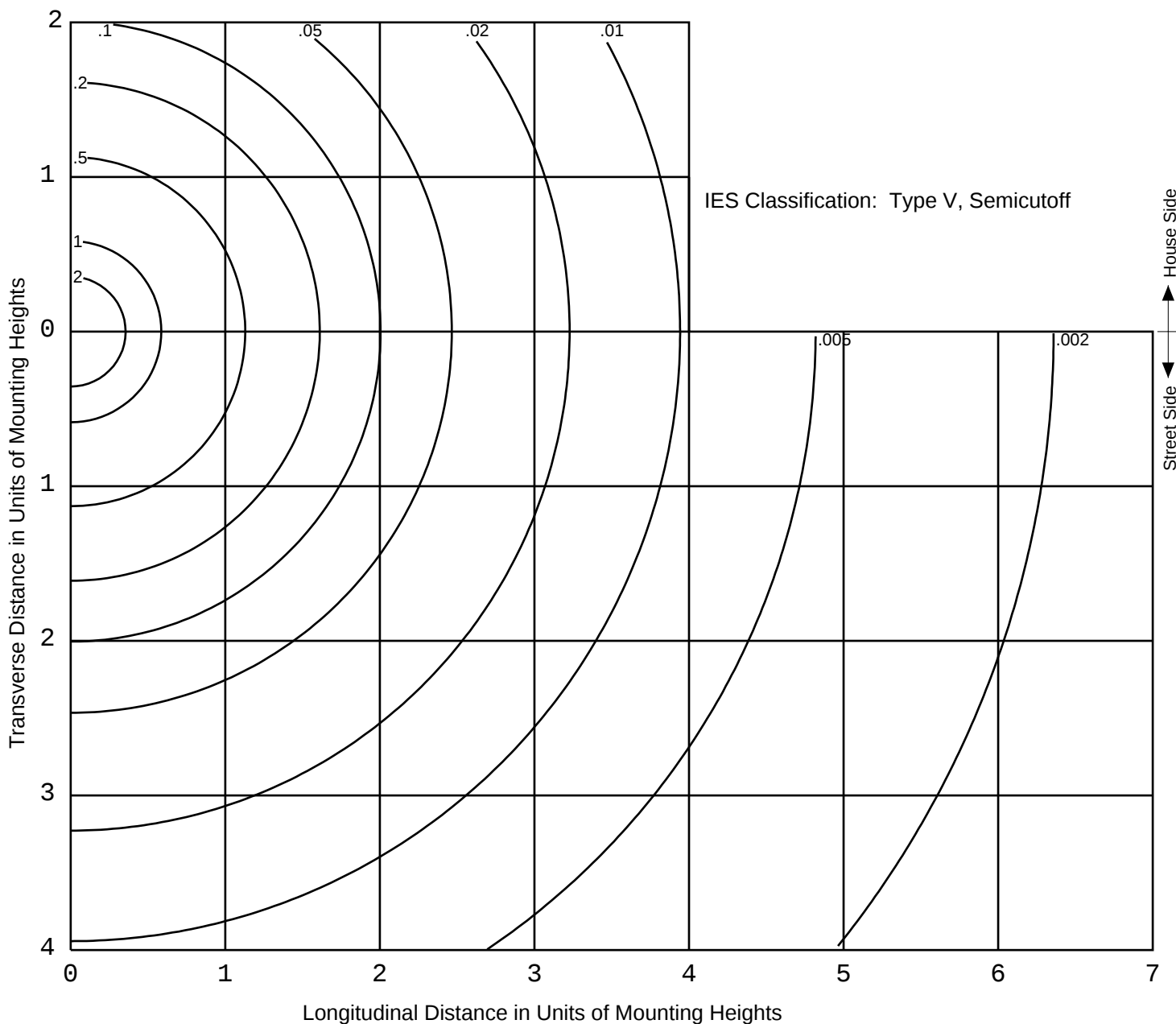
LAMP: 20- NICHIA 3000K

BALLAST CAT. NO.: EUC-180T210DT-HX01

BALLAST: 1- INVENTRONICS

MOUNTING: WALL

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.





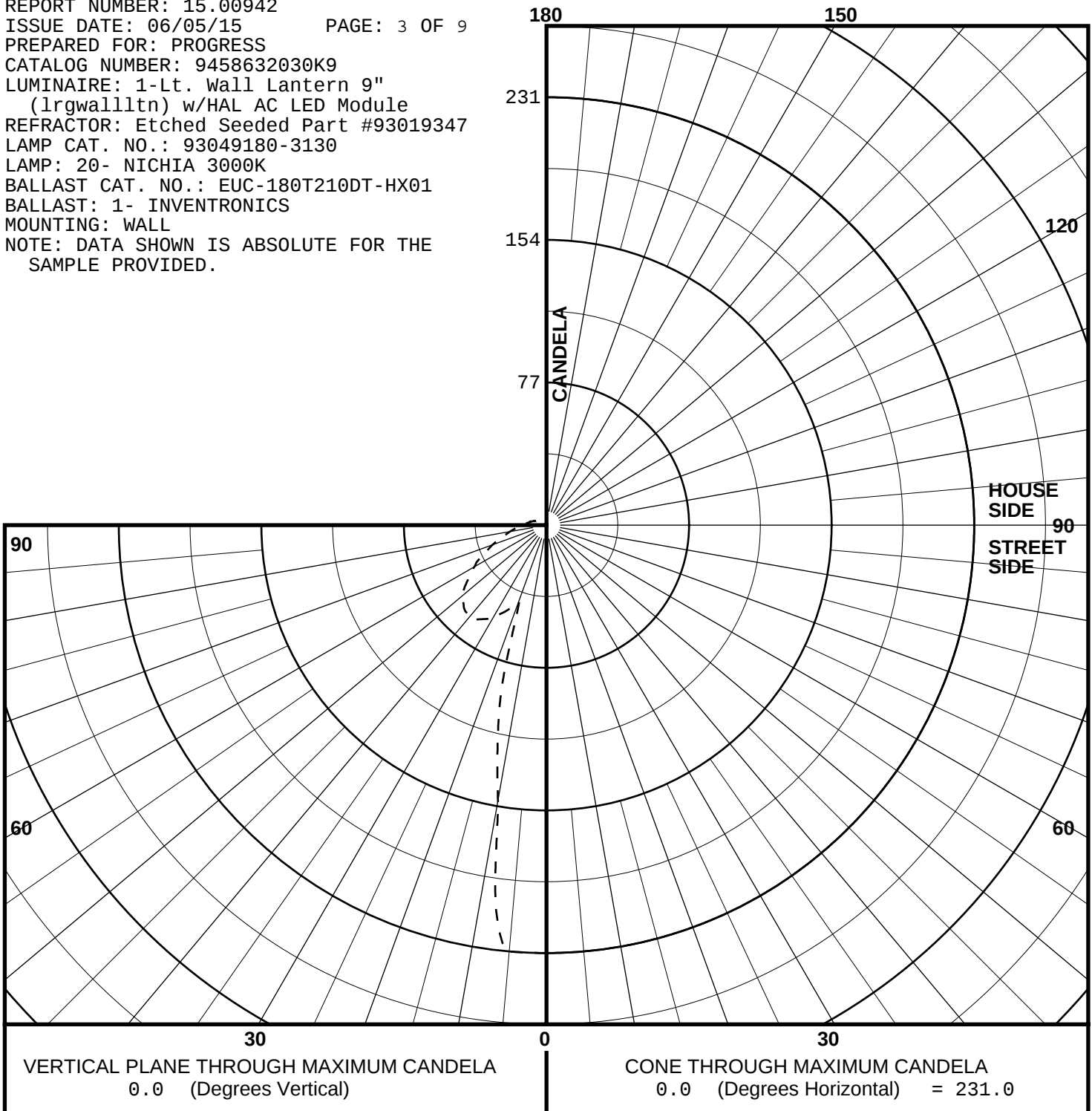
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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

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PREPARED FOR: PROGRESS
CATALOG NUMBER: 9458632030K9
LUMINAIRE: 1-Lt. Wall Lantern 9"
(lrgwallltn) w/HAL AC LED Module
REFRACTOR: Etched Seeded Part #93019347
LAMP CAT. NO.: 93049180-3130
LAMP: 20- NICHIA 3000K
BALLAST CAT. NO.: EUC-180T210DT-HX01
BALLAST: 1- INVENTRONICS
MOUNTING: WALL
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.





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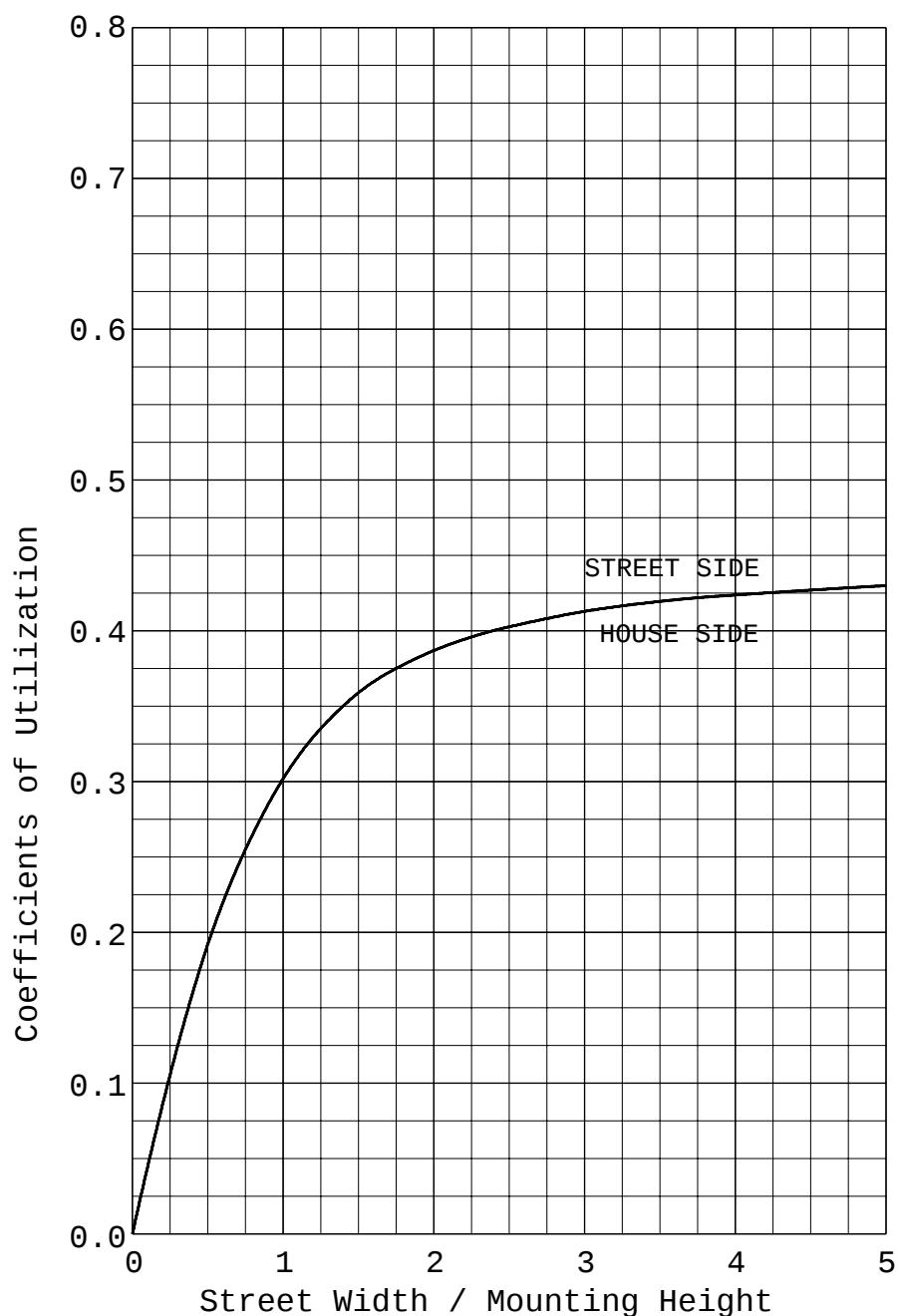
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	142.	45.0
DOWNWARD HOUSE SIDE	142.	45.0
DOWNWARD TOTAL	284.	90.0
UPWARD STREET SIDE	16.	5.0
UPWARD HOUSE SIDE	16.	5.0
UPWARD TOTAL	32.	10.0
TOTAL FLUX	316.	100.0
TOTAL INPUT WATTS = 7.8		
EFFICACY = 40.5 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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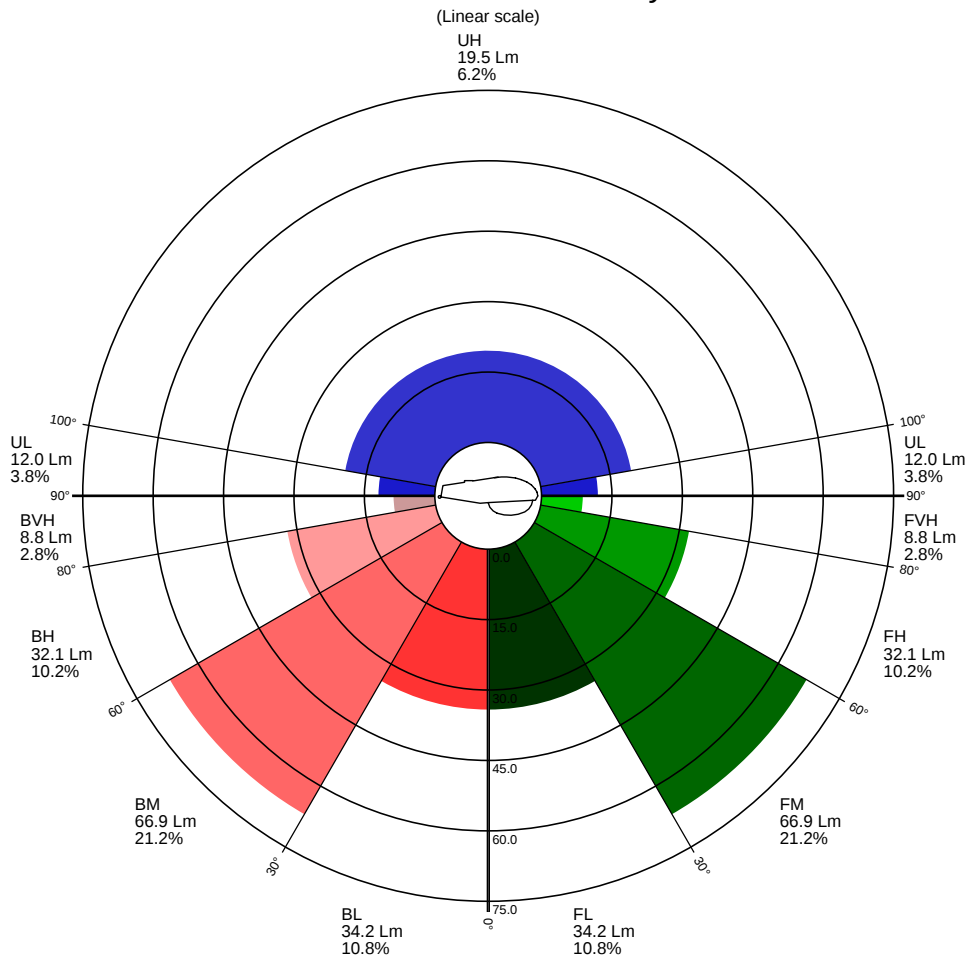


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BUG Rating:			Zone Ratings		
Zonal Summary			B	U	G
		Lumens	% of Fixture		
Forward		142	45.0		
FL	(0° - 30°)	34.2	10.8		
FM	(30° - 60°)	66.9	21.2		
FH	(60° - 80°)	32.1	10.2		
FVH	(80° - 90°)	8.8	2.8		
Backward		142	45.0		
BL	(0° - 30°)	34.2	10.8		
BM	(30° - 60°)	66.9	21.2		
BH	(60° - 80°)	32.1	10.2		
BVH	(80° - 90°)	8.8	2.8		
Upward		32	10.0		
UL	(90° - 100°)	12.0	3.8		
UH	(100° - 180°)	19.5	6.2		
Trapped Light		0	0.0		
Total Flux		316	100.0		

Zonal Lumen Summary





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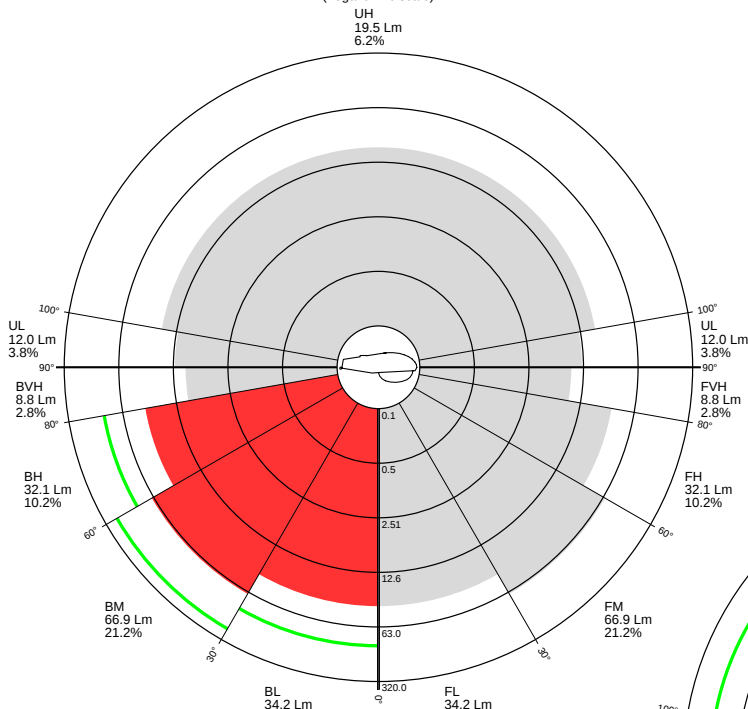
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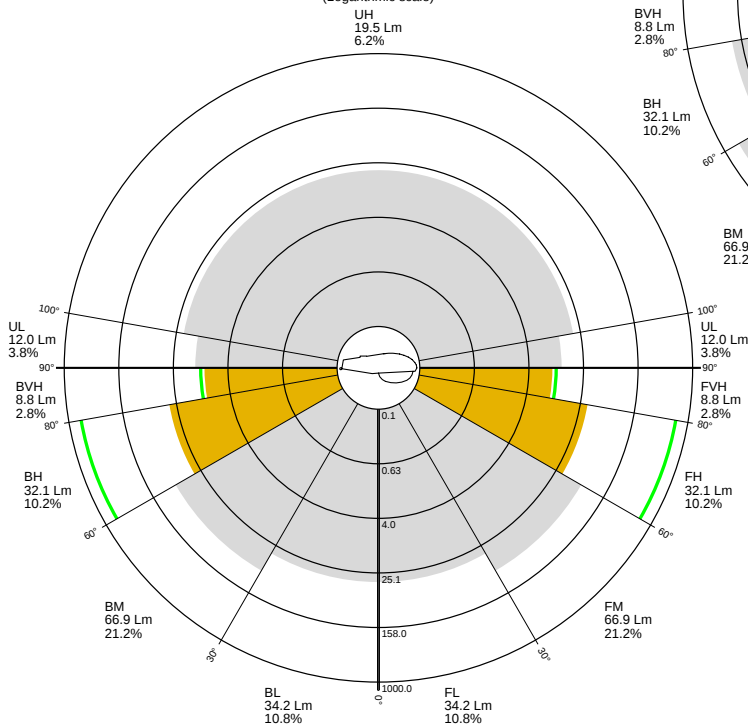
Backlight Rating Details

(Logarithmic scale)



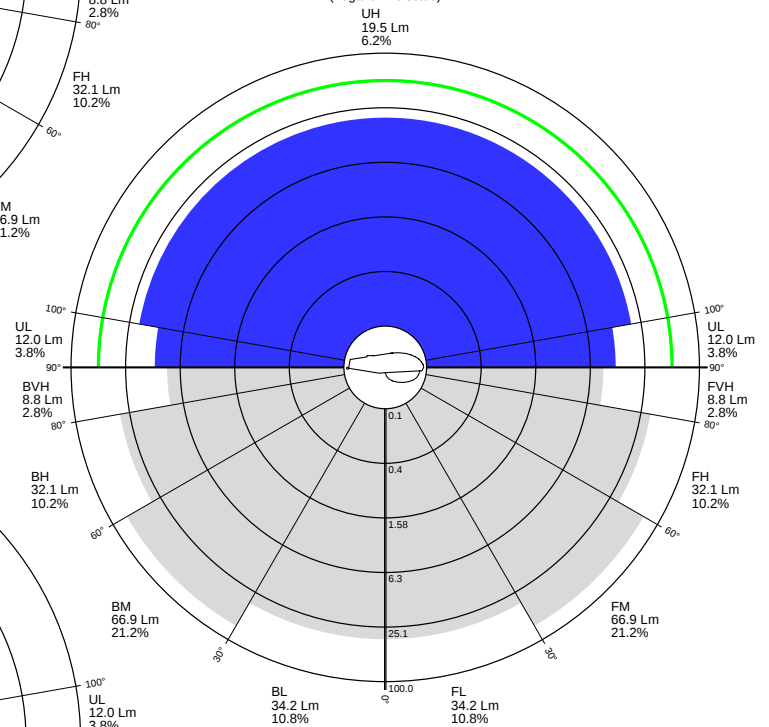
Glare Rating Details

(Logarithmic scale)



Uplight Rating Details

(Logarithmic scale)





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CANDELA TABULATION -- TYPE V

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180.0	0.
175.0	0.
165.0	0.
155.0	0.
145.0	1.
135.0	2.
125.0	4.
115.0	6.
105.0	8.
95.0	11.
90.0	13.
87.5	14.
85.0	16.
82.5	18.
80.0	20.
77.5	22.
75.0	25.
72.5	28.
70.0	31.
67.5	34.
65.0	38.
62.5	42.
60.0	45.
57.5	49.
55.0	52.
52.5	56.
50.0	59.
47.5	61.
45.0	63.
42.5	64.
40.0	64.
37.5	64.
35.0	62.
30.0	58.
25.0	51.
20.0	44.
15.0	96.
10.0	151.
5.0	231.<<
0.0	231.<<

<< INDICATES MAXIMUM CANDELA



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**5-DEGREE
ZONAL LUMEN SUMMARY**

0- 5	6
5- 10	14
10- 15	14
15- 20	11
20- 25	10
25- 30	14
30- 35	18
35- 40	21
40- 45	24
45- 50	25
50- 55	24
55- 60	23
60- 65	20
65- 70	17
70- 75	15
75- 80	12
80- 85	10
85- 90	8
90- 95	7
95-100	5
100-105	5
105-110	4
110-115	3
115-120	3
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	20
0- 20	45
0- 30	68
0- 40	107
0- 50	155
0- 60	202
0- 70	240
0- 80	266
0- 90	284
0-100	296
0-110	304
0-120	310
0-130	314
0-140	315
0-150	316
0-160	316
0-170	316
0-180	316

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6/5/2015

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>
<i>Goniophotometer</i>	ITL / HLI LAB 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	11/11/2015

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