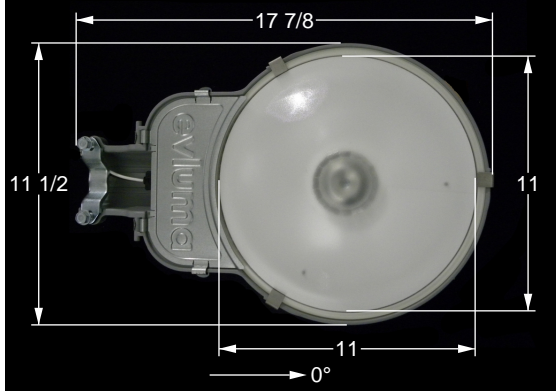




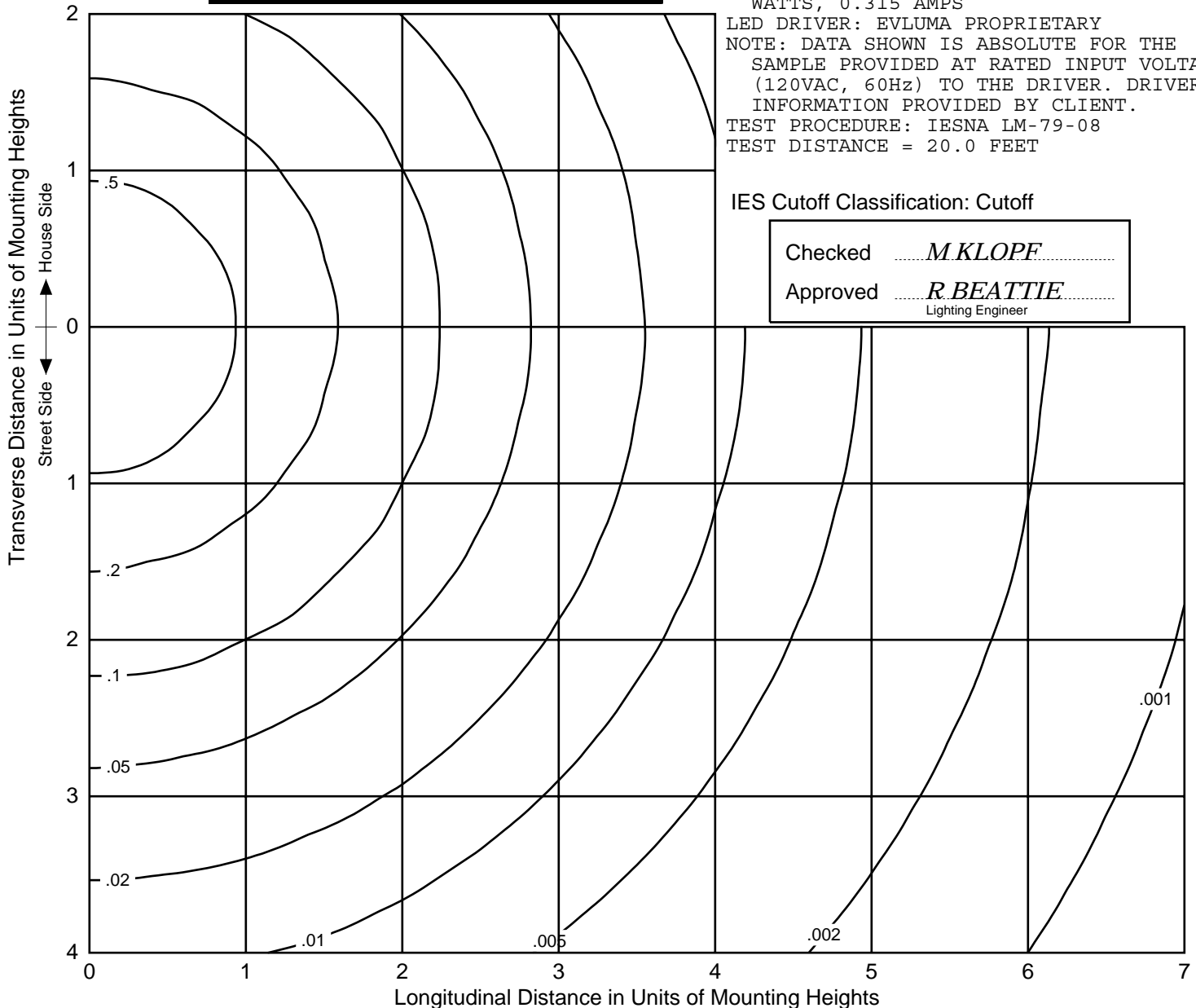
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION**  
Values based on 25 foot mounting height.



REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
 ISSUE DATE: 08/12/16 PAGE: 1 OF 8  
 PREPARED FOR: EVLUMA  
 CATALOG NUMBER: AMAX-40-4K-6-V-D-S3-0  
 LUMINAIRE: CAST FINNED METAL HOUSING WITH FORMED METAL ACCESS DOOR, 16 LEDS, WHITE FIBROUS REFLECTOR, FABRICATED MULTI-FACETED SEGMENTED METAL CENTER REFLECTOR WITH PREMIUM SPECULAR FINISH, CLEAR MICRO-PRISMATIC GLASS DROP LENS, LENS PRISMS OUT.  
 LAMPS: SIXTEEN WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.  
 INPUT ELECTRICAL: 120.0 VOLTS, 37.7 WATTS, 0.315 AMPS  
 LED DRIVER: EVLUMA PROPRIETARY  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. DRIVER INFORMATION PROVIDED BY CLIENT.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 20.0 FEET

IES Cutoff Classification: Cutoff

Checked ..... *M.KLOPF* .....  
 Approved ..... *R.BEATTIE* .....  
 Lighting Engineer





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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



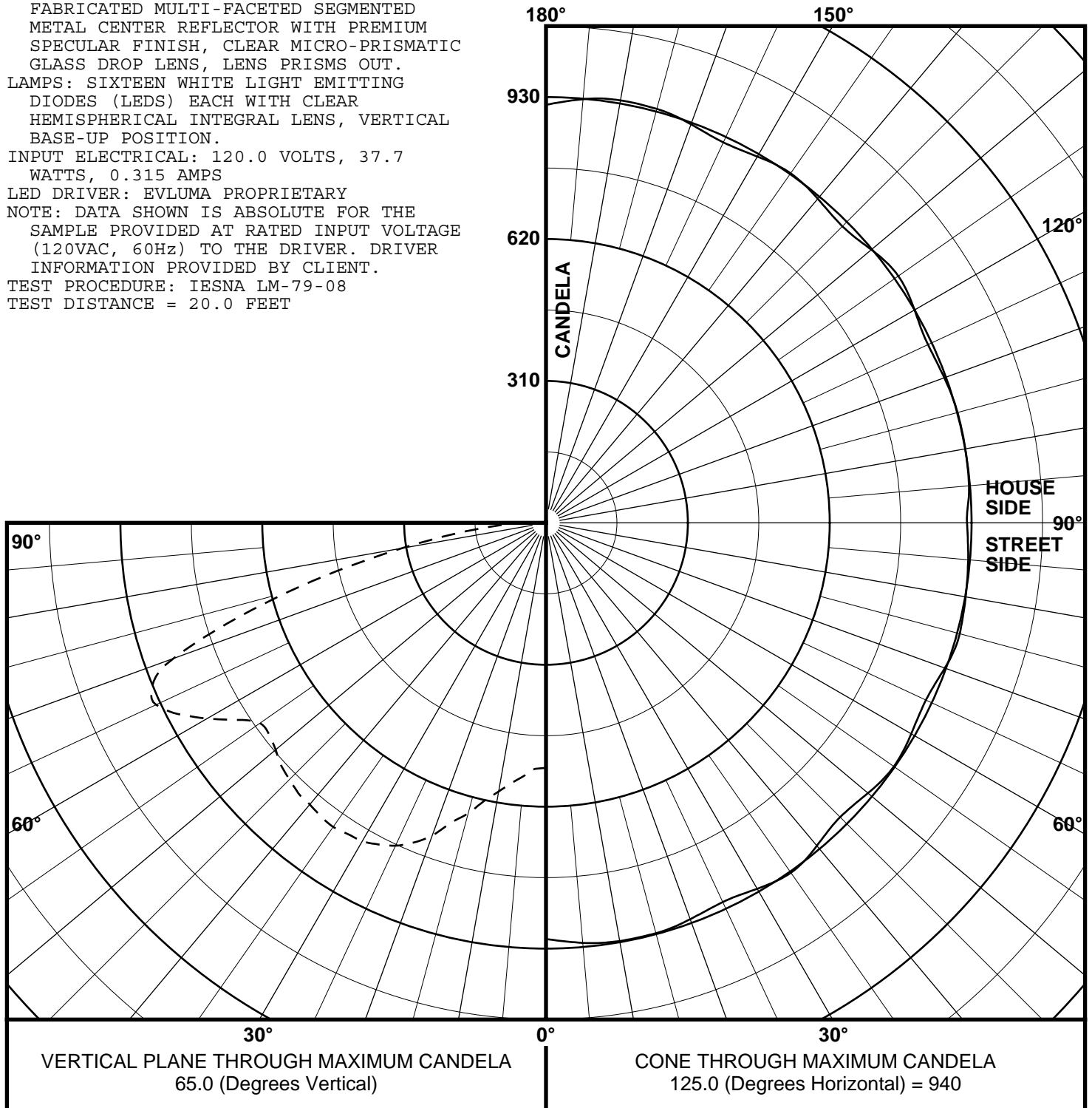
NVLAP LAB CODE: 200925-0

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PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
 ISSUE DATE: 08/12/16 PAGE: 2 OF 8  
 PREPARED FOR: EVLUMA  
 CATALOG NUMBER: AMAX-40-4K-6-V-D-S3-0  
 LUMINAIRE: CAST FINNED METAL HOUSING  
 WITH FORMED METAL ACCESS DOOR, 16  
 LEDS, WHITE FIBROUS REFLECTOR,  
 FABRICATED MULTI-FACETED SEGMENTED  
 METAL CENTER REFLECTOR WITH PREMIUM  
 SPECULAR FINISH, CLEAR MICRO-PRISMATIC  
 GLASS DROP LENS, LENS PRISMS OUT.  
 LAMPS: SIXTEEN WHITE LIGHT EMITTING  
 DIODES (LEDS) EACH WITH CLEAR  
 HEMISPHERICAL INTEGRAL LENS, VERTICAL  
 BASE-UP POSITION.  
 INPUT ELECTRICAL: 120.0 VOLTS, 37.7  
 WATTS, 0.315 AMPS  
 LED DRIVER: EVLUMA PROPRIETARY  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
 SAMPLE PROVIDED AT RATED INPUT VOLTAGE  
 (120VAC, 60Hz) TO THE DRIVER. DRIVER  
 INFORMATION PROVIDED BY CLIENT.  
 TEST PROCEDURE: IESNA LM-79-08  
 TEST DISTANCE = 20.0 FEET

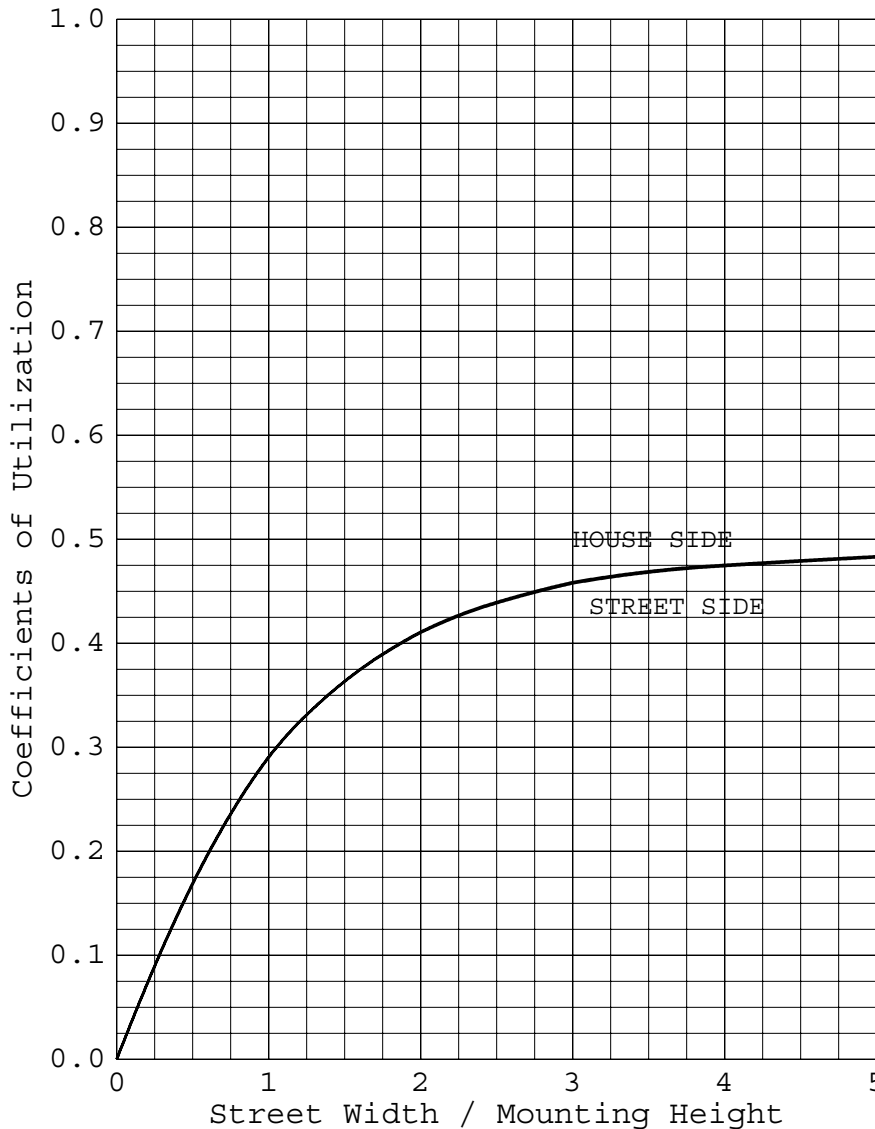
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
ISSUE DATE: 08/12/16  
PREPARED FOR: EVLUMA

PAGE: 3 OF 8

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	2055	49.7
DOWNWARD HOUSE SIDE	2054	49.7
DOWNWARD TOTAL	4109	99.5
UPWARD STREET SIDE	13	0.3
UPWARD HOUSE SIDE	9	0.2
UPWARD TOTAL	22	0.5
TOTAL FLUX	4131	100.0

EFFICACY = 109.6 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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REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
ISSUE DATE: 08/12/16  
PREPARED FOR: EVLUMA

PAGE: 4 OF 8

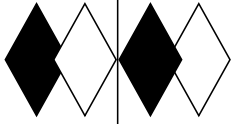
FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	2055.	49.7	
FL ( 0- 30)	306.1	7.4	
FM ( 30- 60)	908.8	22.0	
FH ( 60- 80)	749.9	18.2	G1
FVH( 80- 90)	90.2	2.2	G1
BACK LIGHT	2054.	49.7	
BL ( 0- 30)	302.5	7.3	B1
BM ( 30- 60)	912.9	22.1	B1
BH ( 60- 80)	753.4	18.2	B2 G1
BVH( 80- 90)	85.5	2.1	G1
UPLIGHT	22.	0.5	
UL ( 90-100)	21.2	0.5	U2
UH (100-180)	0.9	0.0	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	4131.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS  
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B2 U2 G1



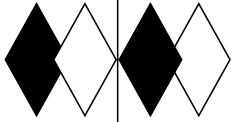
REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
 ISSUE DATE: 08/12/16  
 PREPARED FOR: EVLUMA

PAGE: 5 OF 8

CANDELA TABULATION

	LATERAL ANGLE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
95.0	13.	14.	16.	18.	18.	17.	18.	17.	17.	17.	17.
92.5	26.	28.	33.	36.	36.	35.	36.	35.	35.	35.	35.
90.0	49.	52.	59.	62.	62.	61.	62.	61.	62.	61.	62.
87.5	83.	87.	96.	100.	101.	100.	100.	98.	100.	99.	101.
85.0	137.	142.	150.	153.	153.	153.	153.	151.	154.	153.	156.
V 82.5	210.	216.	223.	225.	224.	225.	226.	226.	228.	225.	230.
E 80.0	304.	313.	317.	319.	320.	319.	321.	320.	323.	321.	328.
R 77.5	426.	430.	433.	439.	436.	438.	438.	439.	439.	445.	446.
T 75.0	565.	572.	571.	574.	575.	574.	572.	575.	573.	582.	582.
I 72.5	727.	720.	719.	715.	720.	717.	718.	715.	713.	722.	724.
C 70.0	850.	845.	857.	845.	855.	849.	855.	850.	850.	856.	854.
A 67.5	913.	913.	921.	907.	925.	907.	930.	913.	927.	927.	920.
L 65.0<<	909.	921.	928.	914.	933.	909.	928.	916.	936.	926.	920.
62.5	891.	895.	896.	891.	897.	880.	898.	886.	906.	897.	896.
A 60.0	849.	848.	844.	851.	841.	846.	837.	846.	852.	853.	859.
N 57.5	793.	790.	784.	797.	785.	799.	787.	804.	798.	805.	811.
G 55.0	754.	752.	751.	759.	748.	764.	756.	767.	760.	773.	780.
L 52.5	747.	750.	748.	746.	746.	752.	748.	751.	759.	759.	763.
E 50.0	751.	759.	761.	757.	763.	758.	763.	754.	767.	767.	758.
47.5	762.	769.	779.	768.	782.	763.	777.	769.	781.	780.	771.
45.0	781.	787.	795.	785.	794.	781.	793.	781.	790.	795.	782.
42.5	795.	796.	805.	797.	804.	796.	799.	800.	800.	806.	798.
40.0	815.	810.	810.	815.	810.	807.	804.	804.	804.	811.	806.
37.5	811.	816.	813.	819.	818.	812.	811.	814.	807.	815.	813.
35.0	812.	816.	817.	823.	821.	821.	816.	813.	811.	812.	808.
32.5	815.	811.	813.	817.	817.	820.	819.	814.	810.	810.	810.
30.0	810.	810.	811.	818.	810.	818.	807.	809.	807.	804.	803.
25.0	802.	796.	797.	800.	801.	796.	800.	789.	790.	787.	786.
20.0	749.	747.	744.	739.	747.	746.	747.	745.	742.	734.	737.
15.0	674.	670.	666.	669.	668.	667.	667.	671.	665.	666.	669.
10.0	606.	602.	604.	602.	598.	603.	600.	604.	604.	601.	601.
5.0	565.	564.	563.	561.	563.	560.	563.	562.	559.	559.	559.
0.0	535.	535.	535.	535.	535.	535.	535.	535.	535.	535.	535.

CONE OF MAXIMUM CANDELA



REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
 ISSUE DATE: 08/12/16  
 PREPARED FOR: EVLUMA

PAGE: 6 OF 8

CANDELA TABULATION

	LATERAL ANGLE									
	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.
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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0	16.	15.	13.	13.	13.	9.	6.	4.	2.	2.
92.5	34.	33.	28.	28.	29.	23.	19.	16.	8.	6.
90.0	61.	60.	53.	53.	54.	44.	40.	37.	35.	37.
87.5	99.	100.	91.	91.	91.	81.	77.	77.	82.	80.
85.0	152.	154.	146.	147.	147.	136.	133.	131.	137.	134.
V 82.5	226.	228.	220.	222.	222.	211.	206.	207.	209.	206.
E 80.0	321.	326.	323.	320.	320.	308.	302.	302.	305.	298.
R 77.5	439.	444.	441.	442.	445.	428.	426.	428.	431.	424.
T 75.0	572.	580.	581.	583.	585.	570.	569.	570.	572.	566.
I 72.5	718.	723.	725.	730.	731.	719.	724.	720.	728.	734.
C 70.0	854.	859.	859.	867.	859.	854.	851.	856.	862.	858.
A 67.5	927.	925.	922.	931.	919.	920.	903.	919.	914.	899.
L 65.0<<	928.	931.	921.	940.	916.	932.	917.	936.	929.	913.
62.5	907.	899.	898.	905.	893.	904.	898.	909.	905.	896.
A 60.0	855.	850.	859.	855.	855.	853.	861.	861.	859.	860.
N 57.5	808.	799.	809.	801.	812.	804.	814.	799.	808.	818.
G 55.0	775.	769.	770.	763.	779.	767.	778.	762.	768.	772.
L 52.5	764.	763.	755.	762.	764.	762.	754.	757.	752.	756.
E 50.0	767.	778.	762.	771.	762.	771.	760.	764.	760.	759.
47.5	775.	789.	770.	785.	767.	786.	770.	783.	773.	765.
45.0	786.	795.	788.	793.	788.	798.	779.	791.	783.	775.
42.5	796.	803.	800.	801.	803.	806.	794.	802.	792.	793.
40.0	807.	805.	813.	803.	814.	809.	810.	806.	804.	807.
37.5	810.	807.	811.	808.	812.	816.	820.	810.	810.	816.
35.0	810.	805.	808.	811.	818.	816.	821.	817.	818.	811.
32.5	807.	804.	802.	806.	812.	810.	813.	811.	818.	821.
30.0	803.	800.	799.	803.	807.	806.	810.	810.	818.	817.
25.0	785.	782.	781.	778.	777.	785.	788.	793.	794.	793.
20.0	740.	730.	725.	727.	726.	729.	735.	739.	738.	735.
15.0	666.	662.	660.	657.	653.	654.	655.	659.	657.	659.
10.0	603.	599.	598.	596.	597.	593.	593.	595.	594.	593.
5.0	560.	558.	556.	555.	556.	555.	554.	556.	553.	552.
0.0	535.	535.	535.	535.	535.	535.	535.	535.	535.	535.

||  
 PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
ISSUE DATE: 08/12/16  
PREPARED FOR: EVLUMA

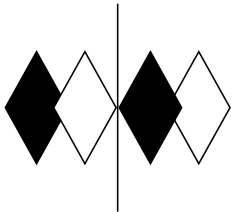
PAGE: 7 OF 8

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	13
5- 10	41
10- 15	75
15- 20	116
20- 25	161
25- 30	203
30- 35	239
35- 40	271
40- 45	296
45- 50	313
50- 55	330
55- 60	372
60- 65	434
65- 70	458
70- 75	375
75- 80	236
80- 85	123
85- 90	53
90- 95	17
95-100	4
100-105	1
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
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	55
0- 20	245
0- 30	609
0- 40	1119
0- 50	1728
0- 60	2430
0- 70	3322
0- 80	3933
0- 90	4109
0-100	4130
0-110	4131
0-120	4131
0-130	4131
0-140	4131
0-150	4131
0-160	4131
0-170	4131
0-180	4131



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REPORT NUMBER: ITL88122-GONIOPHOTOMETRY  
ISSUE DATE: 08/12/16  
PREPARED FOR: EVLUMA

PAGE: 8 OF 8

ADDRESS: 3600 LIND AVE. SW  
SUITE 140  
RENTON, WA 98057

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Page 1 of 4

REPORT NUMBER: ITL88122-SPHERE  
DATE: 08/18/16  
PREPARED FOR: EVLUMA  
CATALOG NUMBER: AMAX-40-4K-6-V-D-S3-0

ADDRESS: 3600 LIND AVE. SW  
SUITE 140  
RENTON, WA 98057

LUMINAIRE: CAST FINNED METAL HOUSING WITH FORMED METAL ACCESS DOOR, 16 LEDS, WHITE FIBROUS REFLECTOR, FABRICATED MULTI-FACETED SEGMENTED METAL CENTER REFLECTOR WITH PREMIUM SPECULAR FINISH, CLEAR MICRO-PRISMATIC GLASS DROP LENS, LENS PRISMS OUT.

LAMP: SIXTEEN WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

DRIVER: EVLUMA PROPRIETARY

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. DRIVER INFORMATION PROVIDED BY CLIENT.

		Calibration Due:
INSTRUMENTS:	Associated Power Technologies APT5040 AC Power Source	N/A
	Yokogawa WT210 Digital Power Meter #6	12/07/16
	Ocean Optics QE65000 Spectroradiometer	04/19/17
	ITL 2.0m Diameter Integrating Sphere S20-2, 4PI Geometry	04/19/17

OBJECT OF TEST: Measure the Absolute Flux in lumens\*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Index (CRIa,1-14), Chromaticity Coordinates (x,y; u',v'), ANSI C78.377 Duv, Total Radiant Flux\*, Scotopic / Photopic Lumen Ratio, and electrical data including ANSI C82.77-2002 Power Factor (PF) and Total Harmonic Distortion (THD) to the test sample.

PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120VAC input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology.

RESULTS: (continued subsequent pages)

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Checked	<u>N WHITE</u>
Approved	<u>P O'CONNOR</u> Sphere Lab Supervisor



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4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

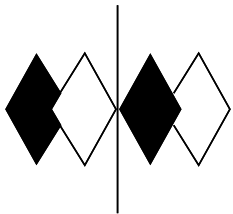
PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)  
 REPORT NUMBER: ITL88122-SPHERE  
 DATE: 08/18/16  
 PREPARED FOR: EVLUMA  
 CATALOG NUMBER: AMAX-40-4K-6-V-D-S3-0

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	4131 *
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3903
Chromaticity Ordinate y	0.3874
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2273
Chromaticity Ordinate v'	0.5076
Correlated Color Temp CCT (K)	3823
ANSI C78.377-2008 Duv	0.002
Total Radiant Flux (milliWatts)	12085 *
Scotopic / Photopic Lumen Ratio	1.475
ELECTRICAL	
Input Voltage (Volts AC )	120.0
Input Current (Amps AC )	0.316
Input Power (Watts)	37.8
Input Power Factor (%)	99.7
Input Current THD (%)	7.6
Input Voltage THD (%)	0.2
EFFICACY (lumens/Watt)	109.3

COLOR RENDERING INDICES		CRI
Ra (Average 1-8)		72
R1	Light greyish red	70
R2	Dark greyish yellow	77
R3	Strong yellowish green	83
R4	Moderate yellowish green	74
R5	Light bluish green	70
R6	Light blue	69
R7	Light violet	79
R8	Light reddish purple	54
R9	Strong red	-24
R10	Strong yellow	46
R11	Strong green	72
R12	Strong blue	48
R13	Light yellowish pink (skin)	70
R14	Moderate olive green (leaf)	90

\*NOTE: The total lumen output shown on this report was obtained from photometric test ITL88122-GONIOPHOTOMETRY



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INDEPENDENT TESTING LABORATORIES, INC.  
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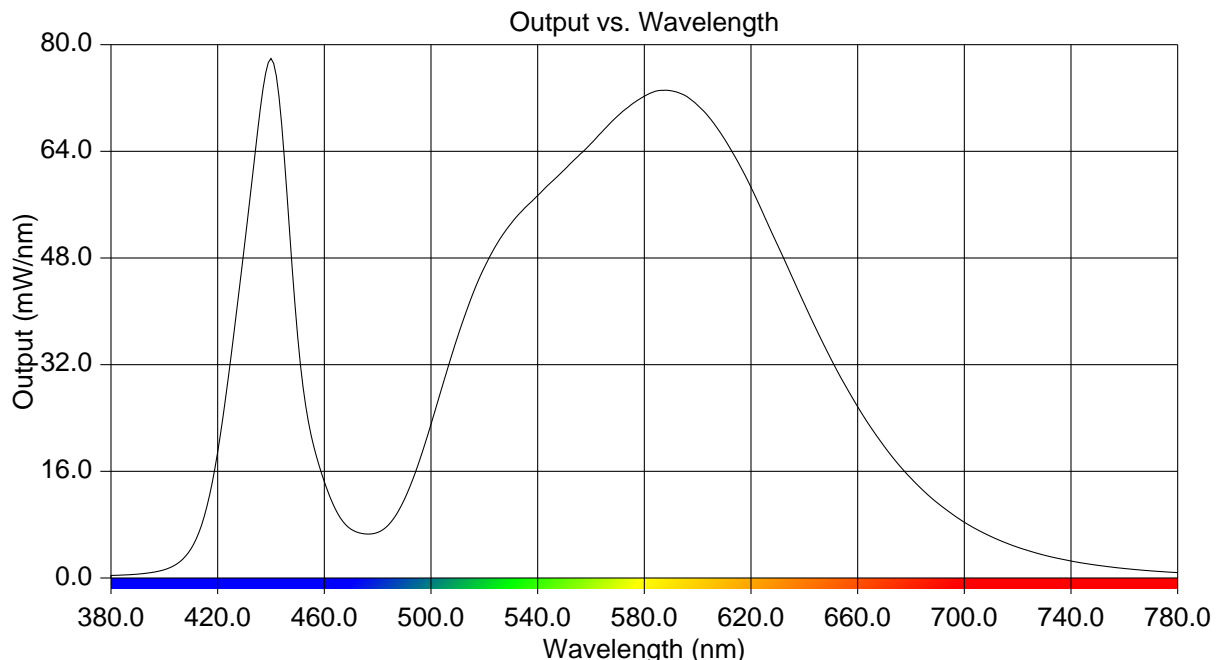
PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

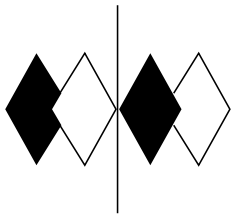
REPORT NUMBER: ITL88122-SPHERE  
DATE: 08/18/16  
PREPARED FOR: EVLUMA  
CATALOG NUMBER: AMAX-40-4K-6-V-D-S3-0

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### RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.372	515	41.914	650	32.846
385	0.458	520	46.582	655	29.130
390	0.581	525	50.301	660	25.689
395	0.809	530	53.158	665	22.552
400	1.242	535	55.440	670	19.726
405	2.193	540	57.373	675	17.180
410	4.371	545	59.334	680	14.953
415	9.284	550	61.232	685	12.964
420	18.878	555	63.198	690	11.231
425	33.182	560	65.164	695	9.722
430	49.672	565	67.303	700	8.361
435	67.081	570	69.307	705	7.217
440	77.926	575	70.972	710	6.222
445	63.026	580	72.264	715	5.360
450	36.239	585	73.090	720	4.610
455	21.489	590	73.086	725	3.980
460	14.443	595	72.437	730	3.420
465	9.681	600	70.903	735	2.953
470	7.319	605	68.755	740	2.549
475	6.624	610	65.885	745	2.198
480	6.826	615	62.489	750	1.904
485	8.397	620	58.607	755	1.649
490	11.766	625	54.267	760	1.424
495	16.803	630	49.907	765	1.234
500	23.064	635	45.526	770	1.067
505	29.777	640	41.128	775	0.928
510	36.217	645	36.873	780	0.808





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## CIE Chromaticity Diagram

