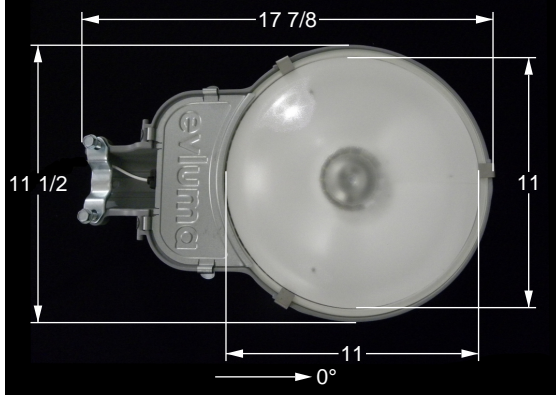


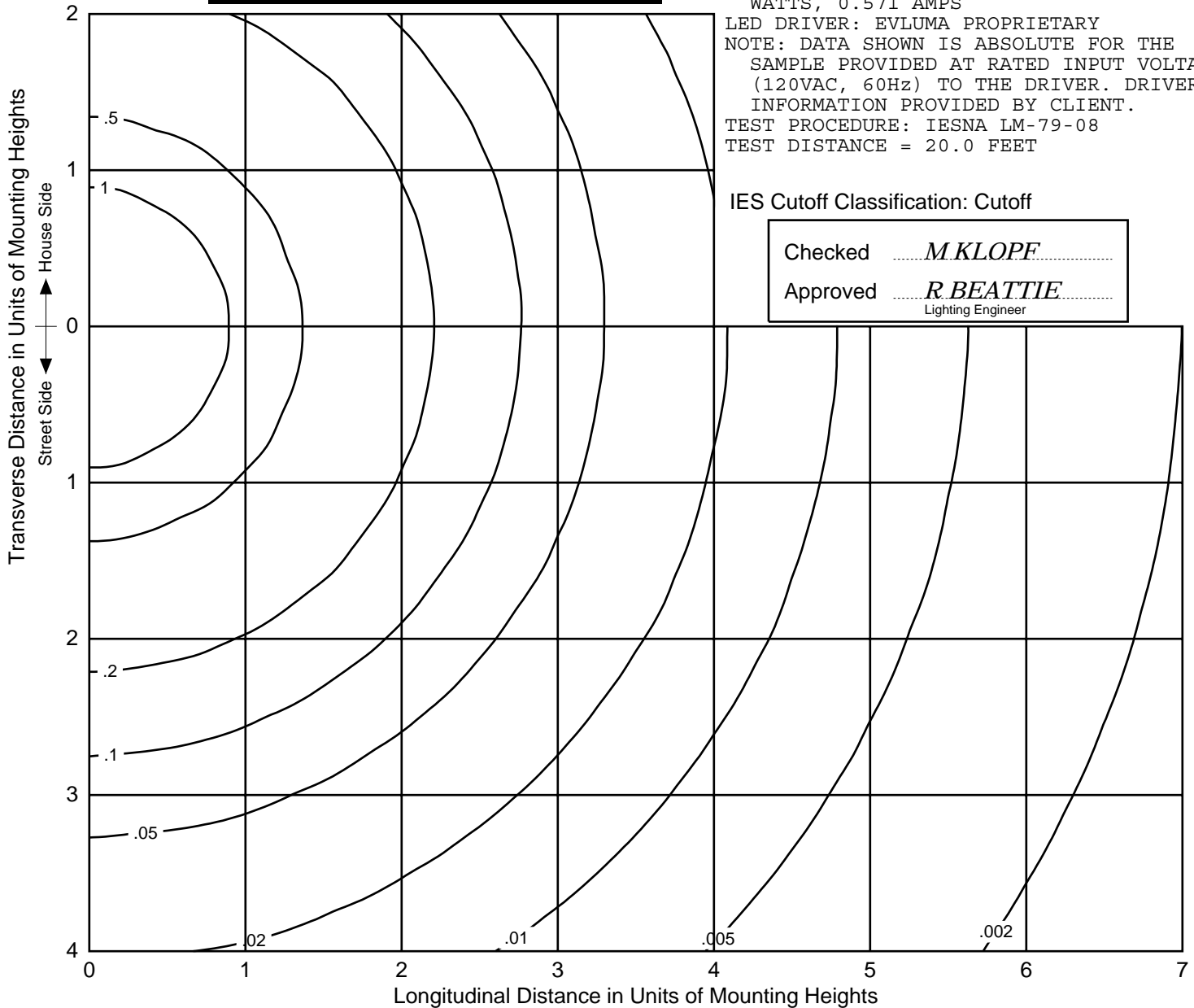
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 25 foot mounting height.

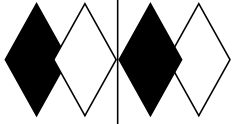


REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
 ISSUE DATE: 08/16/16 PAGE: 1 OF 8
 PREPARED FOR: EVLUMA
 CATALOG NUMBER: AMAX-70-5K-6-V-D-S3-0
 LUMINAIRE: CAST FINNED METAL HOUSING WITH FORMED METAL ACCESS DOOR, 32 LEDS, WHITE FIBROUS REFLECTOR, FABRICATED MULTI-FACETED SEGMENTED METAL CENTER REFLECTOR WITH PREMIUM SPECULAR FINISH, CLEAR MICRO-PRISMATIC GLASS DROP LENS, LENS PRISMS OUT.
 LAMPS: THIRTY-TWO WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.
 INPUT ELECTRICAL: 120.0 VOLTS, 68.4 WATTS, 0.571 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

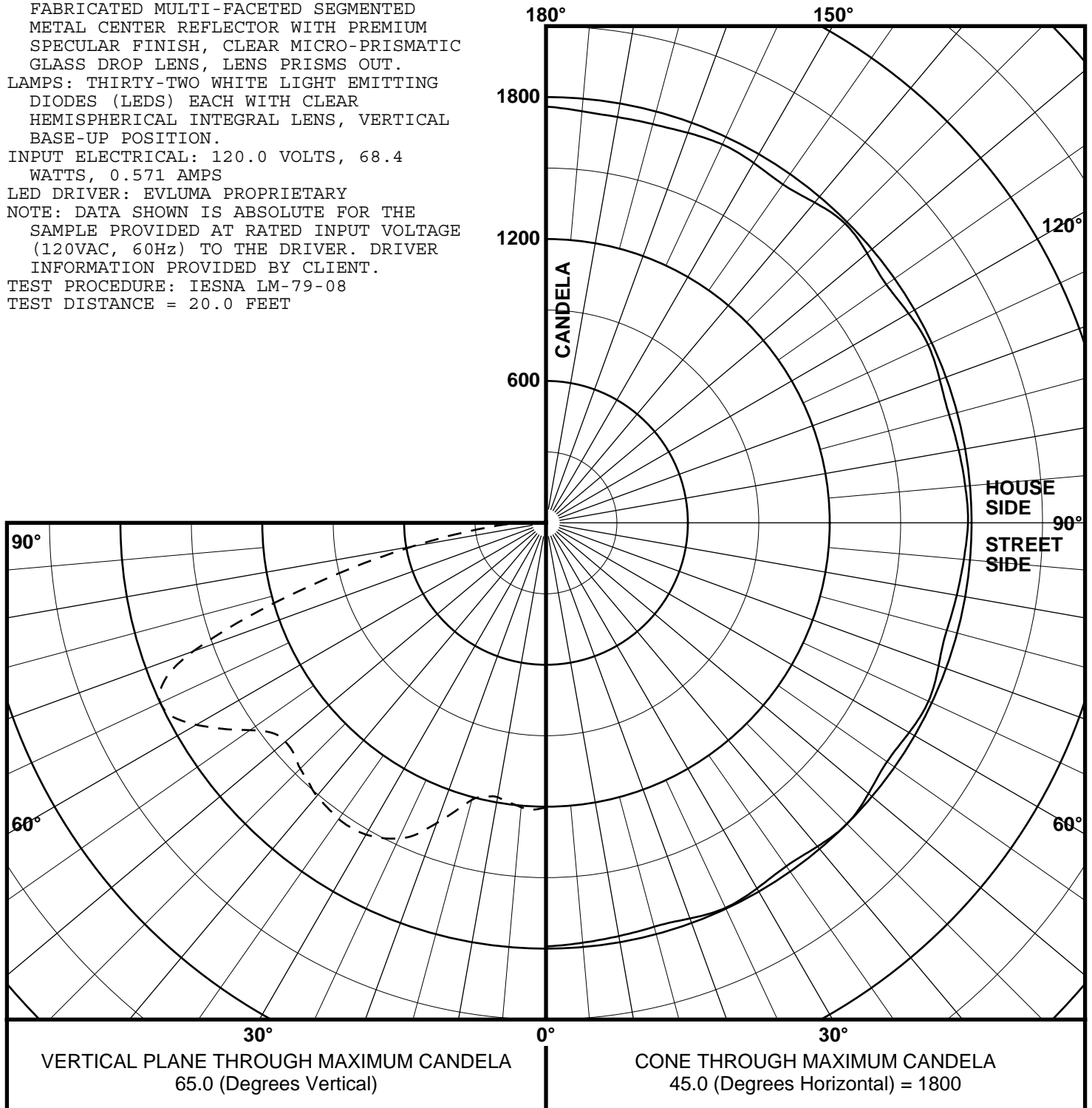
Checked *M KLOPF*
 Approved *R. BEATTIE*
 Lighting Engineer

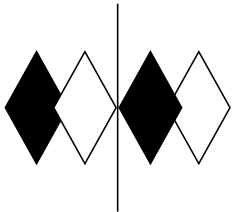




REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
 ISSUE DATE: 08/16/16 PAGE: 2 OF 8
 PREPARED FOR: EVLUMA
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 INPUT ELECTRICAL: 120.0 VOLTS, 68.4
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 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
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 INFORMATION PROVIDED BY CLIENT.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 20.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

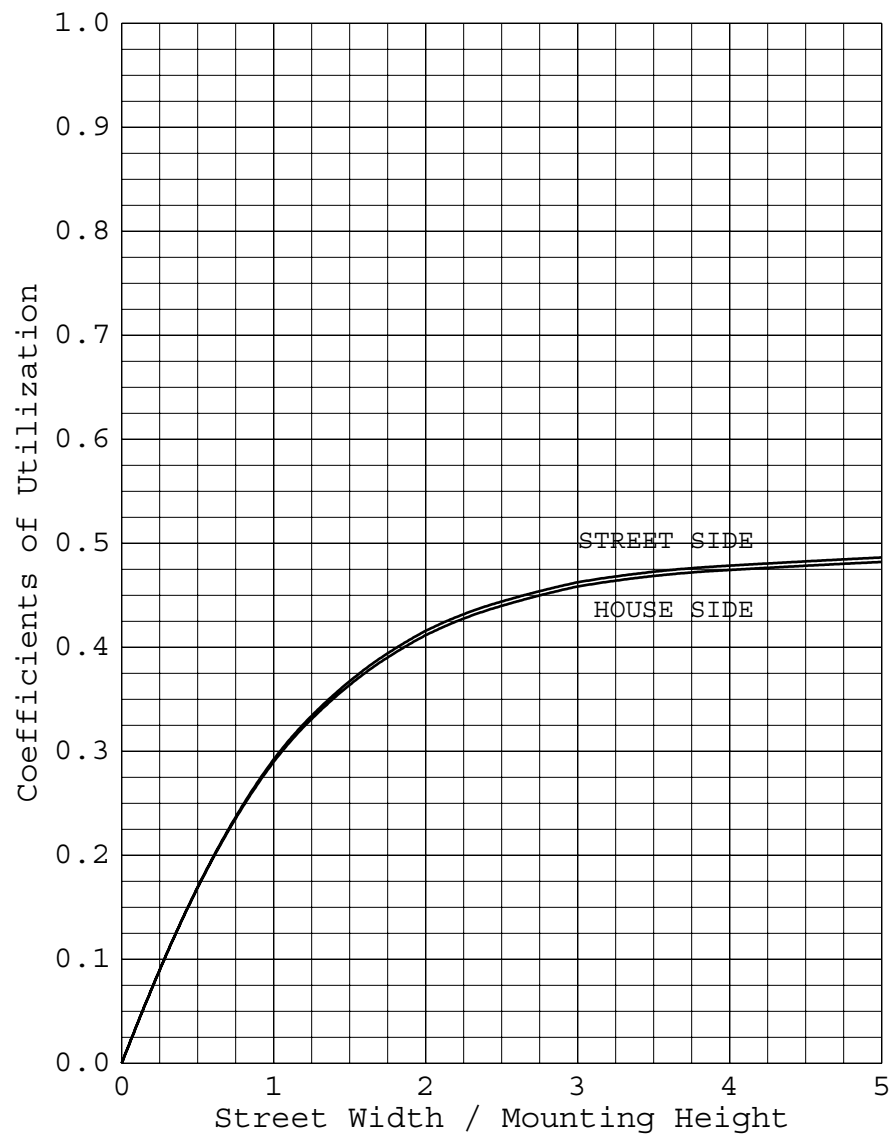




REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
 ISSUE DATE: 08/16/16
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PAGE: 3 OF 8

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	3886	50.0
DOWNWARD HOUSE SIDE	3841	49.5
DOWNWARD TOTAL	7727	99.5
UPWARD STREET SIDE	23	0.3
UPWARD HOUSE SIDE	17	0.2
UPWARD TOTAL	40	0.5
TOTAL FLUX	7766	100.0

EFFICACY = 113.5 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.



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

REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
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PAGE: 4 OF 8

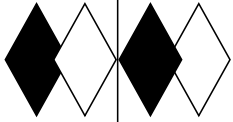
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	3886.	50.0	
FL (0- 30)	571.0	7.4	
FM (30- 60)	1743.9	22.5	
FH (60- 80)	1411.3	18.2	G1
FVH(80- 90)	159.9	2.1	G2
BACK LIGHT	3841.	49.5	
BL (0- 30)	567.2	7.3	B2
BM (30- 60)	1716.9	22.1	B2
BH (60- 80)	1409.7	18.2	B3 G1
BVH(80- 90)	146.8	1.9	G2
UPLIGHT	40.	0.5	
UL (90-100)	37.9	0.5	U2
UH (100-180)	1.7	0.0	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	7766.	100.0	

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

BUG RATING: B3 U2 G2



REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
 ISSUE DATE: 08/16/16
 PREPARED FOR: EVLUMA

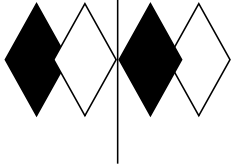
PAGE: 5 OF 8

CANDELA TABULATION

	STREET SIDE											
	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	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	95.0	27.	28.	30.	32.	31.	30.	29.	28.	28.	28.	28.
	92.5	55.	57.	61.	65.	63.	62.	62.	60.	60.	60.	59.
	90.0	100.	102.	107.	111.	109.	109.	108.	106.	107.	106.	107.
	87.5	167.	170.	174.	181.	176.	178.	172.	169.	174.	170.	175.
	85.0	263.	265.	269.	277.	273.	268.	265.	260.	265.	265.	267.
V	82.5	390.	393.	396.	405.	401.	403.	393.	392.	392.	391.	396.
E	80.0	556.	563.	561.	571.	572.	572.	567.	564.	568.	567.	573.
R	77.5	793.	776.	779.	780.	778.	787.	782.	794.	782.	798.	791.
T	75.0	1036.	1021.	1033.	1027.	1023.	1036.	1032.	1056.	1036.	1061.	1053.
I	72.5	1299.	1284.	1297.	1298.	1302.	1321.	1316.	1335.	1318.	1344.	1339.
C	70.0	1572.	1550.	1556.	1562.	1561.	1588.	1568.	1588.	1584.	1592.	1597.
A	67.5	1748.	1730.	1733.	1756.	1737.	1748.	1721.	1730.	1710.	1728.	1739.
L	65.0 <<	1791.	1782.	1768.	1796.	1772.	1800.	1761.	1785.	1755.	1774.	1785.
	62.5	1765.	1762.	1755.	1779.	1752.	1778.	1755.	1773.	1757.	1762.	1770.
A	60.0	1704.	1697.	1689.	1717.	1695.	1708.	1699.	1710.	1706.	1703.	1715.
N	57.5	1623.	1617.	1612.	1619.	1617.	1621.	1625.	1618.	1621.	1617.	1612.
G	55.0	1534.	1528.	1538.	1531.	1541.	1528.	1546.	1533.	1535.	1526.	1523.
L	52.5	1467.	1476.	1472.	1466.	1478.	1459.	1477.	1460.	1467.	1455.	1450.
E	50.0	1447.	1446.	1448.	1446.	1452.	1439.	1446.	1439.	1441.	1427.	1428.
	47.5	1455.	1451.	1455.	1450.	1455.	1446.	1452.	1442.	1439.	1436.	1429.
	45.0	1477.	1471.	1473.	1469.	1475.	1470.	1468.	1462.	1465.	1458.	1451.
	42.5	1502.	1492.	1499.	1490.	1495.	1487.	1491.	1489.	1489.	1480.	1479.
	40.0	1515.	1515.	1518.	1519.	1518.	1508.	1511.	1510.	1509.	1516.	1504.
	37.5	1537.	1537.	1540.	1525.	1531.	1518.	1528.	1517.	1522.	1520.	1512.
	35.0	1546.	1538.	1539.	1530.	1533.	1528.	1526.	1531.	1529.	1524.	1525.
	32.5	1538.	1537.	1535.	1527.	1534.	1530.	1530.	1520.	1522.	1515.	1516.
	30.0	1522.	1524.	1524.	1520.	1526.	1522.	1519.	1514.	1508.	1500.	1503.
	25.0	1469.	1470.	1472.	1476.	1470.	1472.	1472.	1461.	1462.	1457.	1464.
	20.0	1349.	1353.	1352.	1354.	1363.	1351.	1348.	1351.	1347.	1343.	1345.
	15.0	1208.	1213.	1212.	1214.	1216.	1213.	1216.	1210.	1212.	1207.	1212.
	10.0	1184.	1180.	1178.	1176.	1182.	1178.	1180.	1176.	1181.	1177.	1180.
	5.0	1201.	1205.	1203.	1208.	1205.	1207.	1203.	1209.	1212.	1206.	1206.
	0.0	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



REPORT NUMBER: ITL88132-GONIOPHOTOMETRY
 ISSUE DATE: 08/16/16
 PREPARED FOR: EVLUMA

PAGE: 6 OF 8

CANDELA TABULATION

	HOUSE SIDE		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	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
95.0	27.	26.	23.	24.	22.	18.	13.	9.	7.	7.
92.5	58.	53.	47.	49.	48.	42.	35.	31.	30.	31.
90.0	103.	101.	91.	93.	88.	78.	70.	70.	72.	71.
87.5	170.	169.	155.	155.	147.	137.	130.	131.	137.	134.
85.0	263.	258.	251.	252.	239.	231.	227.	228.	234.	231.
V 82.5	389.	386.	380.	380.	365.	362.	361.	358.	364.	358.
E 80.0	559.	569.	562.	562.	546.	532.	534.	529.	538.	531.
R 77.5	804.	793.	789.	787.	782.	766.	762.	758.	758.	749.
T 75.0	1070.	1057.	1077.	1051.	1054.	1048.	1028.	1034.	1021.	1040.
I 72.5	1353.	1336.	1367.	1351.	1346.	1338.	1323.	1325.	1307.	1329.
C 70.0	1606.	1586.	1612.	1589.	1604.	1590.	1592.	1578.	1572.	1591.
A 67.5	1727.	1715.	1737.	1720.	1742.	1711.	1726.	1702.	1704.	1719.
L 65.0<<	1780.	1765.	1783.	1757.	1789.	1747.	1765.	1745.	1747.	1760.
62.5	1764.	1749.	1763.	1746.	1773.	1725.	1748.	1717.	1722.	1726.
A 60.0	1699.	1690.	1699.	1678.	1686.	1667.	1674.	1652.	1654.	1650.
N 57.5	1610.	1613.	1597.	1594.	1585.	1578.	1578.	1572.	1573.	1569.
G 55.0	1510.	1516.	1500.	1499.	1484.	1492.	1483.	1487.	1480.	1481.
L 52.5	1446.	1452.	1431.	1440.	1420.	1430.	1424.	1421.	1424.	1407.
E 50.0	1421.	1428.	1415.	1417.	1397.	1409.	1398.	1401.	1406.	1401.
47.5	1431.	1434.	1432.	1430.	1420.	1420.	1409.	1414.	1413.	1403.
45.0	1459.	1458.	1454.	1458.	1447.	1445.	1438.	1439.	1438.	1446.
42.5	1483.	1481.	1481.	1489.	1465.	1467.	1467.	1468.	1466.	1465.
40.0	1502.	1507.	1501.	1505.	1499.	1499.	1490.	1497.	1494.	1480.
37.5	1521.	1522.	1521.	1520.	1513.	1514.	1504.	1511.	1512.	1500.
35.0	1526.	1527.	1526.	1525.	1519.	1519.	1510.	1514.	1519.	1513.
32.5	1518.	1519.	1519.	1529.	1514.	1514.	1508.	1506.	1507.	1503.
30.0	1508.	1510.	1516.	1514.	1503.	1509.	1500.	1499.	1493.	1487.
25.0	1455.	1463.	1462.	1465.	1465.	1457.	1451.	1451.	1444.	1436.
20.0	1341.	1349.	1346.	1341.	1341.	1337.	1333.	1326.	1330.	1322.
15.0	1205.	1207.	1203.	1213.	1203.	1200.	1203.	1204.	1199.	1194.
10.0	1179.	1178.	1178.	1178.	1181.	1174.	1182.	1182.	1183.	1185.
5.0	1206.	1212.	1212.	1208.	1211.	1212.	1213.	1212.	1217.	1215.
0.0	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.	1204.

CONE OF MAXIMUM CANDELA



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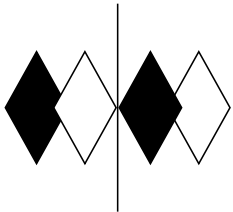
PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	29
5- 10	85
10- 15	141
15- 20	210
20- 25	296
25- 30	377
30- 35	448
35- 40	507
40- 45	549
45- 50	581
50- 55	635
55- 60	741
60- 65	847
65- 70	862
70- 75	689
75- 80	423
80- 85	215
85- 90	92
90- 95	31
95-100	7
100-105	2
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	114
0- 20	465
0- 30	1138
0- 40	2092
0- 50	3222
0- 60	4599
0- 70	6308
0- 80	7420
0- 90	7727
0-100	7765
0-110	7766
0-120	7766
0-130	7766
0-140	7766
0-150	7766
0-160	7766
0-170	7766
0-180	7766



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PAGE: 8 OF 8

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

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REPORT NUMBER: ITL88132-SPHERE
DATE: 08/18/16
PREPARED FOR: EVLUMA
CATALOG NUMBER: AMAX-70-5K-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, 32 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: THIRTY-TWO 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.

INSTRUMENTS:	Associated Power Technologies APT5040 AC Power Source	Calibration Due:
	Yokogawa WT210 Digital Power Meter #6	N/A
	Ocean Optics QE65000 Spectroradiometer	12/07/16
	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	<i>N WHITE</i>
Approved	<i>P O'CONNOR</i> Sphere Lab Supervisor



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4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

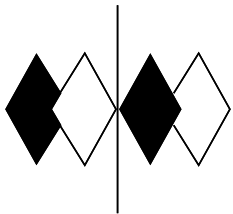
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 REPORT NUMBER: ITL88132-SPHERE
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 CATALOG NUMBER: AMAX-70-5K-6-V-D-S3-0

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	7766 *
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3494
Chromaticity Ordinate y	0.3637
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2097
Chromaticity Ordinate v'	0.4911
Correlated Color Temp CCT (K)	4886
ANSI C78.377-2008 Duv	0.004
Total Radiant Flux (milliWatts)	23277 *
Scotopic / Photopic Lumen Ratio	1.766
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.572
Input Power (Watts)	68.4
Input Power Factor (%)	99.7
Input Current THD (%)	6.4
Input Voltage THD (%)	0.2
EFFICACY (lumens/Watt)	113.5

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	72
R1 Light greyish red	70
R2 Dark greyish yellow	76
R3 Strong yellowish green	81
R4 Moderate yellowish green	74
R5 Light bluish green	71
R6 Light blue	68
R7 Light violet	81
R8 Light reddish purple	58
R9 Strong red	-25
R10 Strong yellow	44
R11 Strong green	72
R12 Strong blue	47
R13 Light yellowish pink (skin)	70
R14 Moderate olive green (leaf)	89

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL88132-GONIOPHOTOMETRY



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NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

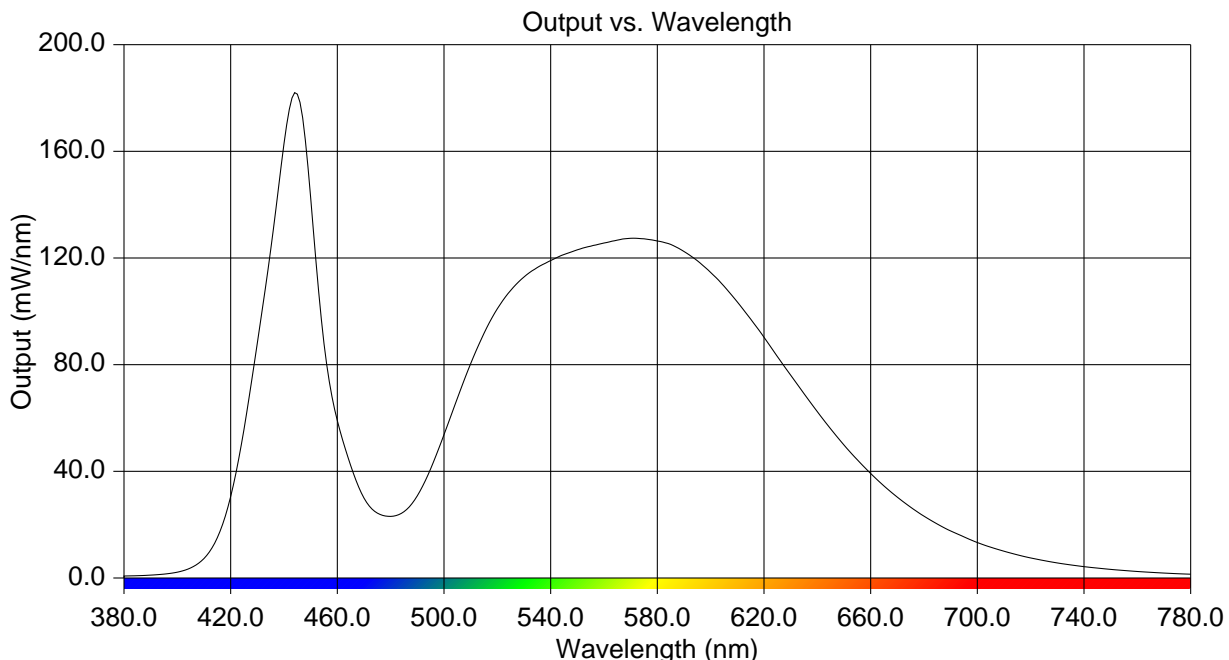
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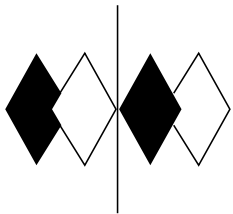
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PREPARED FOR: EVLUMA
CATALOG NUMBER: AMAX-70-5K-6-V-D-S3-0

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.739	515	91.744	650	49.860
385	0.862	520	100.975	655	44.333
390	1.082	525	107.825	660	39.187
395	1.452	530	112.880	665	34.506
400	2.180	535	116.438	670	30.312
405	3.780	540	119.053	675	26.543
410	7.305	545	121.304	680	23.187
415	15.118	550	123.068	685	20.231
420	30.544	555	124.425	690	17.640
425	55.727	560	125.620	695	15.416
430	88.113	565	126.702	700	13.299
435	122.988	570	127.393	705	11.558
440	162.884	575	127.199	710	10.043
445	181.447	580	126.381	715	8.692
450	142.632	585	125.102	720	7.516
455	87.893	590	122.437	725	6.528
460	59.009	595	118.982	730	5.645
465	42.192	600	114.571	735	4.906
470	29.965	605	109.445	740	4.252
475	24.335	610	103.511	745	3.721
480	23.097	615	97.098	750	3.229
485	24.873	620	90.268	755	2.818
490	30.841	625	83.064	760	2.442
495	40.958	630	76.072	765	2.128
500	53.759	635	69.136	770	1.849
505	67.358	640	62.376	775	1.609
510	80.376	645	55.915	780	1.421





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CIE Chromaticity Diagram

