

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P299399

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SLR-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4410.3 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

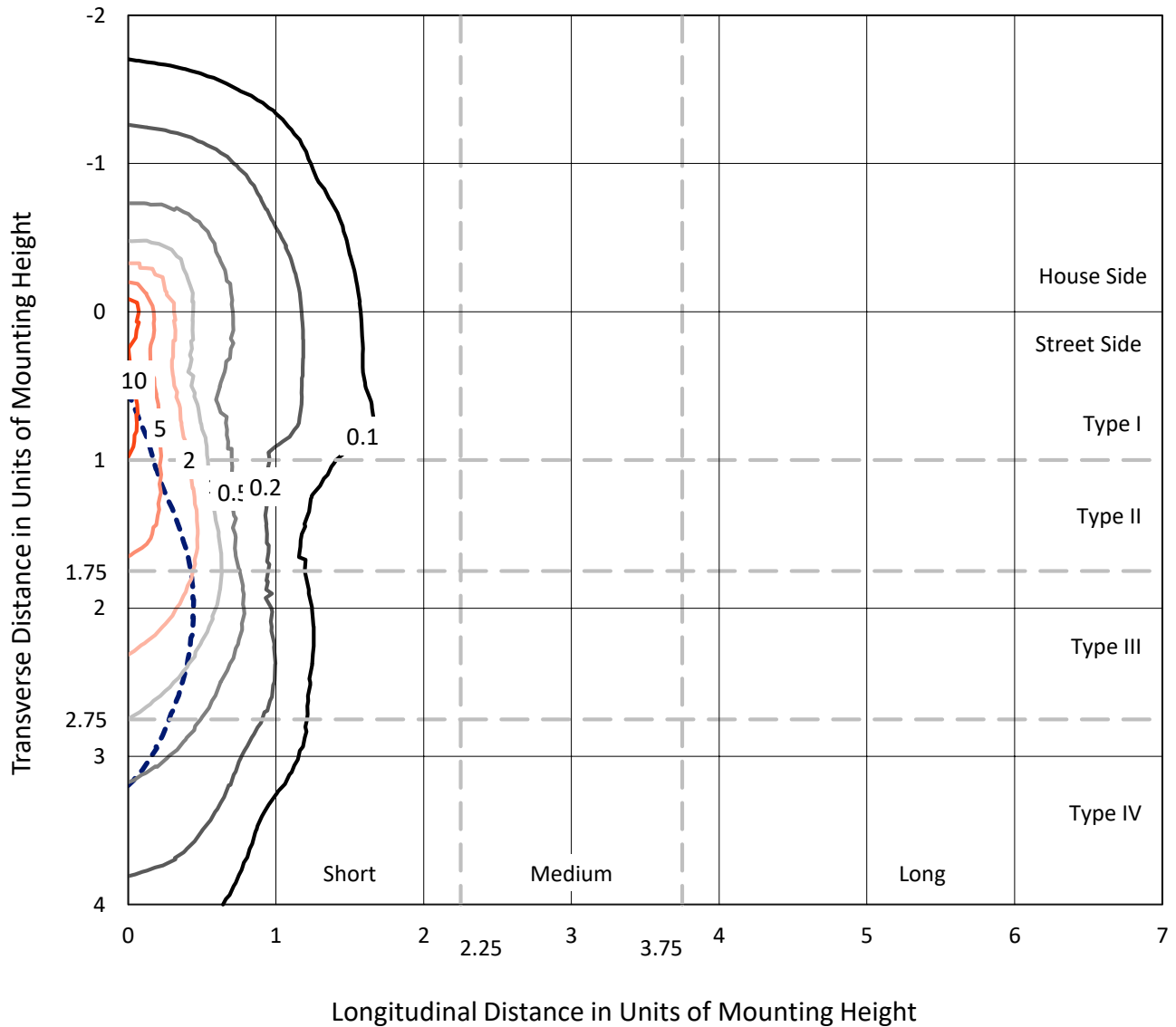


REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

### Iso-Footcandle Lines of Horizontal Illumination

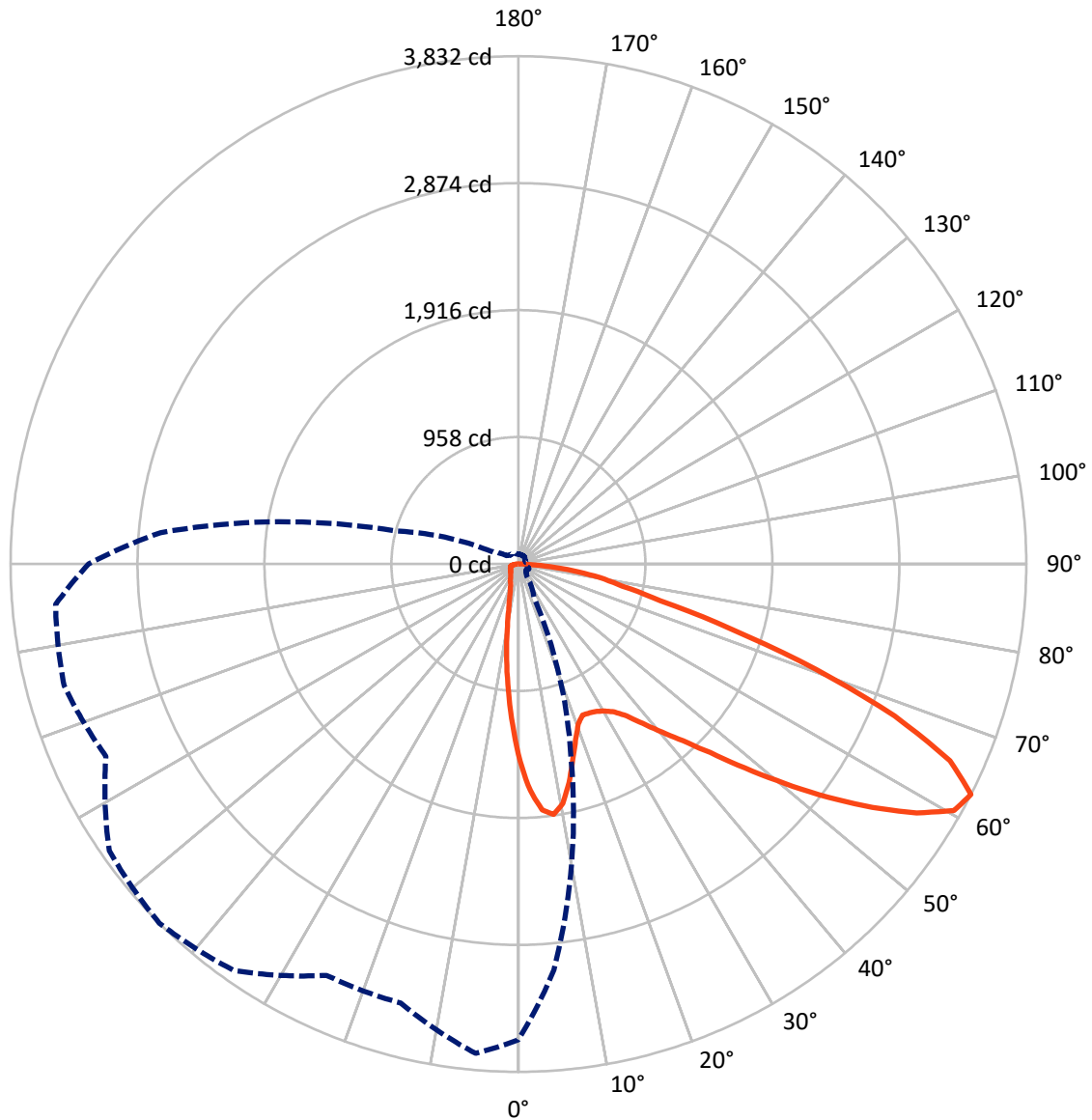
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299399  
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	729.8	0.0	729.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3680.5	0.0	3680.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4410.3	0.0	4410.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	2.5
10°-20°	198.9	4.5
20°-30°	290.0	6.6
30°-40°	446.6	10.1
40°-50°	657.3	14.9
50°-60°	964.2	21.9
60°-70°	1077.8	24.4
70°-80°	527.7	12.0
80°-90°	139.3	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4410.3	100.0
0°-180°	4410.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299399

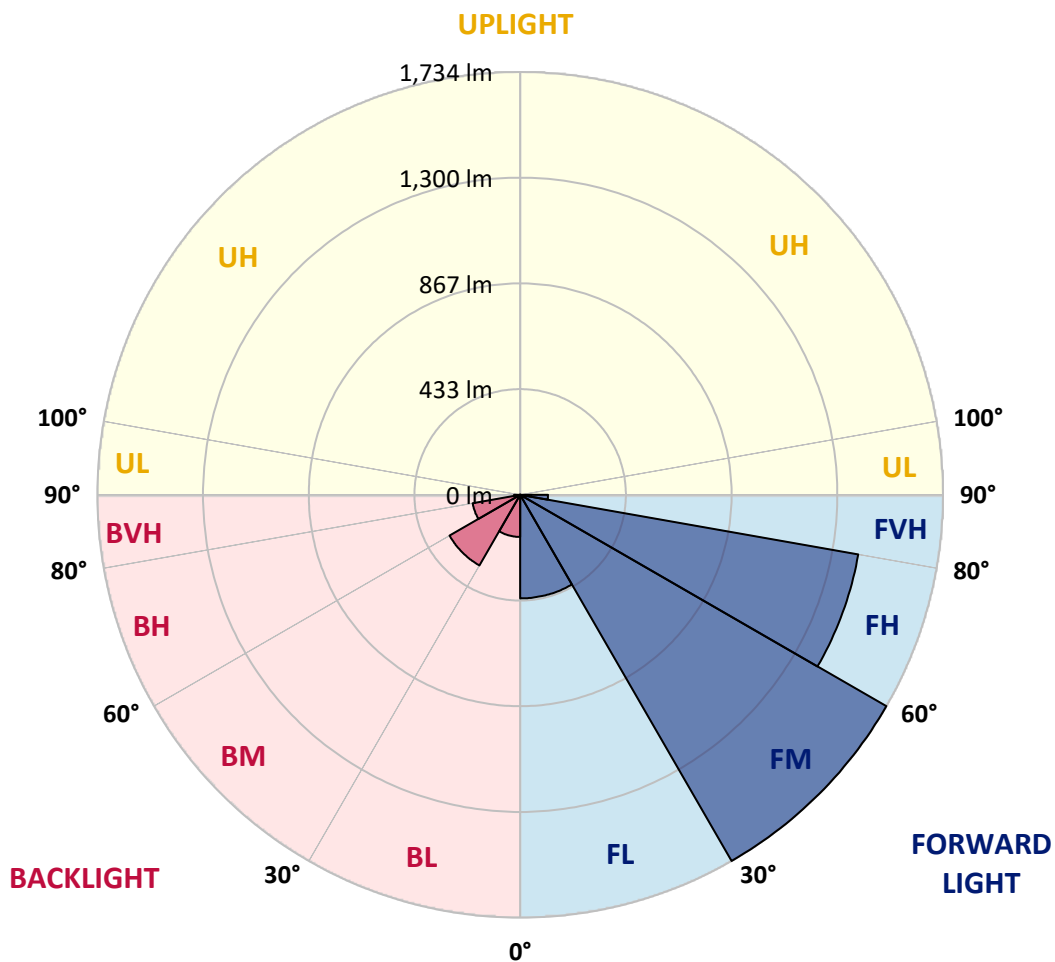
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.7	9.6			
FM	(30°-60°)	1733.7	39.3			
FH	(60°-80°)	1407.6	31.9			G1/1800
FVH	(80°-90°)	114.4	2.6			G2/225
BL	(0°-30°)	172.7	3.9	B1/500		
BM	(30°-60°)	334.4	7.6	B1/1000		
BH	(60°-80°)	197.9	4.5	B1/500		G1/500
BVH	(80°-90°)	24.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1
2.5°	1548.2	1516.7	1464.3	1409.8	1376.6	1337.8	1307.5	1280.8	1227.5	1217.0	1226.5
5°	1455.9	1392.6	1293.9	1194.5	1128.3	1057.3	1002.0	957.7	890.0	878.1	892.4
7.5°	1307.8	1232.1	1101.7	974.8	881.3	792.5	732.9	685.4	632.5	609.8	611.2
10°	1180.0	1094.6	940.4	802.5	725.9	666.0	615.8	567.0	513.5	478.3	468.6
12.5°	1108.4	1010.3	832.5	709.4	638.3	575.3	521.3	469.1	411.9	376.0	365.9
15°	1096.1	989.4	792.1	649.8	560.7	481.0	417.3	359.0	300.1	271.0	265.0
17.5°	1149.7	1026.7	778.9	596.6	487.8	389.4	311.0	246.1	198.1	183.6	182.3
20°	1252.4	1098.5	777.3	546.7	415.8	300.4	216.7	169.5	148.4	144.2	144.5
22.5°	1396.7	1209.8	798.1	509.1	349.6	224.0	162.9	141.8	133.6	129.7	129.7
25°	1583.3	1363.0	846.1	481.8	292.1	178.9	143.8	131.2	123.4	120.7	121.2
27.5°	1764.3	1512.1	901.9	460.2	254.5	162.4	136.2	124.8	118.1	115.4	116.6
30°	1905.3	1644.5	948.4	430.8	235.4	157.8	138.9	127.3	117.6	113.5	113.7
32.5°	2022.2	1760.4	987.5	409.7	218.4	135.3	119.8	114.6	113.5	108.6	106.2
35°	2171.5	1886.7	1013.7	410.2	210.4	120.7	106.6	97.7	91.2	85.6	85.6
37.5°	2346.6	2031.6	1041.5	415.8	207.6	112.2	102.1	93.1	87.0	81.7	80.7
40°	2519.6	2173.7	1067.0	421.1	205.8	107.2	98.4	90.2	84.6	79.3	77.8
42.5°	2666.9	2290.6	1089.8	423.8	200.0	106.6	95.8	88.2	82.9	77.1	75.7
45°	2775.7	2388.5	1114.3	427.9	194.2	108.6	95.8	88.0	81.5	75.9	74.4
47.5°	2872.9	2503.4	1155.2	427.9	187.2	105.0	98.9	88.2	81.2	75.4	74.2
50°	3003.1	2661.0	1232.8	418.0	177.2	101.1	104.2	87.3	79.0	74.4	73.0
52.5°	3182.5	2863.0	1356.0	400.7	162.0	93.6	103.5	86.8	76.8	72.0	70.3
55°	3394.7	3079.2	1490.3	380.6	139.2	88.2	99.9	85.6	74.4	69.1	67.4
57.5°	3560.2	3228.1	1584.8	349.6	119.3	85.4	88.5	84.4	71.5	65.9	64.5
60°	3626.1	3222.3	1610.8	308.1	109.6	82.9	77.4	94.5	69.1	63.5	61.8
62.5°	3590.6	3073.4	1538.1	279.0	107.4	79.8	72.5	87.5	67.2	61.8	59.4
65°	3425.9	2809.6	1345.3	271.3	113.7	76.6	69.4	68.6	64.5	59.4	57.0
67.5°	3067.3	2415.4	1077.1	272.0	121.7	73.5	66.2	62.8	60.8	56.7	54.5
70°	2498.4	1909.7	802.9	274.0	125.8	69.8	62.8	59.2	57.0	52.8	51.4
72.5°	1837.0	1471.9	583.3	261.4	126.5	65.7	58.2	55.0	52.8	48.5	47.3
75°	1256.8	1125.9	404.6	216.5	110.3	59.9	53.1	50.2	48.7	43.4	42.6
77.5°	918.1	845.1	258.9	160.7	85.1	52.6	46.8	44.6	43.7	37.8	36.8
80°	736.8	668.6	162.0	110.1	62.3	44.1	39.3	38.1	37.1	31.3	30.5
82.5°	511.0	447.8	104.0	71.5	46.8	34.2	31.0	30.5	29.1	23.8	23.0
85°	269.6	243.2	65.9	48.7	33.9	23.5	21.6	21.6	20.8	15.8	15.3
87.5°	34.4	56.0	33.5	25.5	18.6	10.4	10.4	10.2	10.9	9.0	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1
2.5°	1204.2	1215.9	1204.7	1205.4	1217.8	1254.6	1271.3	1285.1	1300.0	1309.7	1314.0
5°	872.8	900.0	909.1	928.5	957.1	1004.2	1022.8	1036.4	1045.4	1050.7	1052.9
7.5°	596.9	613.4	631.8	663.0	725.4	753.0	765.4	762.2	752.1	748.4	744.8
10°	450.0	443.5	440.0	457.3	507.7	535.6	544.3	535.8	530.2	531.5	537.5
12.5°	348.6	337.2	323.5	321.5	354.7	379.7	385.2	385.7	395.9	404.8	418.2
15°	254.1	252.8	246.1	242.0	260.8	281.2	283.7	288.0	297.2	303.8	315.4
17.5°	179.2	185.7	191.0	193.7	208.0	222.5	219.9	217.7	216.0	216.0	221.6
20°	144.5	148.8	155.7	163.4	178.0	188.1	181.6	172.8	166.5	164.6	165.4
22.5°	130.2	133.6	137.5	144.2	157.4	164.4	157.4	151.0	144.7	142.5	141.8
25°	122.9	127.3	130.9	136.0	145.7	150.5	143.8	139.2	135.3	132.6	130.6
27.5°	118.8	122.6	123.7	126.1	134.3	138.6	135.3	133.4	130.9	128.5	126.1
30°	114.4	113.7	112.0	112.2	118.8	123.2	122.9	123.4	123.2	122.4	122.0
32.5°	104.5	103.0	101.6	103.0	109.1	113.0	113.2	114.2	114.2	114.0	115.9
35°	87.0	89.7	91.4	95.8	103.0	106.4	105.0	102.5	98.2	95.5	95.3
37.5°	80.5	81.0	83.9	89.9	98.0	101.1	98.9	93.4	90.4	89.9	90.6
40°	77.4	77.8	79.5	85.1	93.1	96.2	94.3	90.2	87.5	87.3	88.5
42.5°	75.2	75.7	76.6	80.5	87.0	90.9	91.2	88.2	85.1	85.4	86.5
45°	73.9	74.2	73.9	75.9	81.9	86.5	88.5	86.5	83.9	84.4	85.8
47.5°	73.7	73.0	72.0	72.5	78.8	83.4	85.8	85.1	83.9	84.4	85.6
50°	72.7	71.0	69.8	69.6	75.9	80.7	82.9	82.9	83.4	84.4	85.6
52.5°	69.8	67.9	67.9	67.2	73.9	78.5	80.0	80.2	81.0	82.6	84.4
55°	66.2	65.5	66.2	65.0	72.5	76.8	77.6	78.1	78.5	80.0	82.4
57.5°	63.0	62.1	63.8	63.3	71.3	75.2	75.2	76.1	76.1	78.1	80.0
60°	61.4	59.4	60.1	60.6	69.6	73.7	73.2	74.2	74.6	76.4	77.8
62.5°	59.2	57.5	57.5	58.6	67.7	71.5	71.3	72.0	73.9	74.4	75.9
65°	56.5	55.8	55.0	56.5	65.7	69.1	69.4	70.3	72.0	72.5	73.7
67.5°	53.8	54.1	52.6	54.1	64.0	66.6	66.6	68.6	69.4	70.3	71.5
70°	50.9	51.2	49.9	51.7	62.8	64.0	63.8	66.4	66.9	67.7	68.8
72.5°	47.3	47.3	46.8	49.2	60.8	61.4	60.8	63.0	63.3	64.0	64.5
75°	43.4	43.4	42.9	46.3	59.7	58.4	57.0	58.6	59.2	59.7	59.7
77.5°	38.3	38.8	38.8	42.9	55.5	57.2	52.3	53.4	54.1	54.3	53.6
80°	32.0	33.2	33.7	39.0	46.5	52.8	46.8	47.5	47.8	47.8	46.8
82.5°	24.5	26.6	27.9	33.7	35.7	44.3	40.7	41.5	40.7	39.3	38.8
85°	17.0	19.9	21.4	25.7	26.9	34.2	33.9	33.9	32.5	30.5	30.3
87.5°	9.2	10.9	11.9	15.3	18.4	23.0	25.0	24.2	23.0	21.8	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1
2.5°	1336.8	1369.8	1422.4	1462.6	1503.1	1542.2	1584.4	1616.6	1644.0	1654.7	1687.1
5°	1075.0	1116.2	1165.9	1255.6	1319.1	1389.1	1470.2	1577.3	1618.5	1675.5	1768.8
7.5°	760.1	797.4	877.4	949.9	1039.9	1139.0	1248.3	1396.2	1450.3	1541.7	1693.7
10°	567.6	610.9	675.2	736.3	815.6	916.9	1042.5	1207.9	1273.5	1372.7	1547.8
12.5°	457.3	508.4	576.5	634.0	695.3	766.8	888.8	1070.1	1158.2	1244.9	1421.9
15°	351.3	404.8	468.2	541.1	608.7	685.9	813.7	1012.0	1113.3	1203.8	1354.7
17.5°	243.2	289.0	368.7	444.8	531.5	630.1	792.8	1024.3	1145.3	1249.5	1366.4
20°	172.4	198.5	264.0	352.3	460.2	584.0	788.9	1089.3	1246.6	1365.7	1441.0
22.5°	145.0	154.6	192.7	273.7	398.3	549.6	802.5	1180.4	1383.3	1535.3	1560.1
25°	132.1	138.0	157.8	214.8	343.3	524.6	848.3	1316.2	1552.6	1705.1	1700.7
27.5°	125.1	131.2	144.2	181.4	301.9	509.1	894.1	1477.2	1746.1	1889.3	1835.0
30°	122.9	131.2	145.0	170.9	272.3	484.6	931.7	1618.5	1894.9	2013.7	1896.2
32.5°	121.2	122.4	128.7	147.4	244.1	456.0	957.1	1745.3	2040.6	2132.0	1984.2
35°	98.0	104.0	114.2	132.1	227.7	438.8	957.1	1854.7	2184.2	2251.5	2068.0
37.5°	94.3	99.7	108.6	123.9	218.4	430.3	938.0	1960.2	2330.8	2387.1	2137.1
40°	92.4	96.7	105.2	117.6	214.5	420.6	910.1	2053.2	2474.1	2522.8	2201.6
42.5°	90.9	94.8	102.8	113.7	209.5	410.0	887.6	2127.9	2598.5	2638.7	2263.2
45°	90.2	94.3	103.0	115.7	199.3	395.9	880.1	2208.6	2700.8	2735.4	2329.8
47.5°	90.2	95.0	104.2	119.8	187.2	381.4	903.6	2315.1	2797.5	2814.5	2408.4
50°	89.5	94.8	107.7	115.7	169.5	362.9	958.8	2449.1	2902.3	2904.2	2507.8
52.5°	88.0	94.3	115.9	113.2	149.1	338.7	1033.5	2621.3	3057.2	3068.8	2663.4
55°	86.3	93.6	113.7	107.7	132.4	309.9	1094.6	2830.5	3274.9	3307.1	2892.3
57.5°	84.1	92.6	110.1	99.9	121.5	272.7	1116.7	2983.7	3426.9	3507.8	3150.3
60°	82.2	91.9	99.4	95.3	114.6	241.5	1074.0	2953.4	3416.5	3591.0	3378.9
62.5°	80.2	92.6	90.6	92.4	111.5	221.4	962.5	2710.7	3243.6	3505.2	3548.4
65°	78.1	86.1	85.6	89.9	110.8	213.4	797.9	2346.8	2909.5	3233.9	3588.4
67.5°	75.2	79.5	81.9	86.8	113.2	206.3	643.9	1935.9	2445.2	2827.3	3379.8
70°	72.0	75.7	78.3	82.9	111.8	203.2	535.6	1526.6	1940.3	2317.2	2968.5
72.5°	67.9	71.0	73.5	77.8	110.3	201.5	452.4	1229.4	1448.6	1721.3	2413.5
75°	63.0	65.9	67.7	72.0	105.7	184.5	355.7	1040.3	1084.0	1197.4	1922.3
77.5°	57.5	59.7	61.1	65.9	93.6	153.5	257.2	802.5	841.8	869.4	1473.8
80°	50.9	53.1	53.8	58.4	77.6	120.0	167.8	592.7	629.6	635.9	962.5
82.5°	43.4	45.6	45.6	49.9	63.5	86.3	110.1	406.1	413.4	434.7	680.3
85°	34.9	36.6	36.6	38.8	49.2	64.5	75.7	203.9	201.7	230.3	589.4
87.5°	25.0	26.2	27.4	27.9	35.2	42.6	45.6	62.1	41.0	47.0	378.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299399

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7050-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1
2.5°	1711.6	1725.4	1711.3	1701.2	1657.3	1621.2	1572.9	1548.2
5°	1839.9	1875.0	1863.1	1820.5	1728.8	1625.8	1508.7	1455.9
7.5°	1824.4	1906.1	1908.0	1828.3	1693.2	1541.4	1382.9	1307.8
10°	1703.6	1808.1	1838.0	1760.6	1617.3	1447.6	1265.8	1180.0
12.5°	1568.8	1671.1	1694.0	1667.2	1547.5	1377.0	1192.6	1108.4
15°	1458.5	1504.4	1531.5	1554.8	1487.6	1348.9	1188.4	1096.1
17.5°	1391.3	1386.3	1394.1	1434.5	1445.9	1381.1	1251.5	1149.7
20°	1367.1	1289.3	1287.3	1343.1	1426.3	1458.1	1374.6	1252.4
22.5°	1380.5	1254.4	1238.4	1304.6	1436.7	1568.8	1536.1	1396.7
25°	1426.5	1257.3	1244.4	1308.5	1474.5	1686.9	1710.4	1583.3
27.5°	1499.0	1275.8	1258.7	1324.5	1524.7	1786.1	1882.1	1764.3
30°	1567.9	1307.8	1286.6	1356.0	1570.5	1825.3	1987.3	1905.3
32.5°	1651.5	1367.6	1330.5	1413.9	1627.2	1887.9	2081.1	2022.2
35°	1733.4	1452.9	1406.9	1503.3	1690.5	1965.7	2188.3	2171.5
37.5°	1823.4	1564.5	1526.4	1619.0	1777.1	2039.1	2325.0	2346.6
40°	1919.4	1712.4	1667.2	1787.8	1911.4	2131.3	2467.8	2519.6
42.5°	2016.2	1876.5	1822.7	1944.8	2059.0	2222.2	2590.0	2666.9
45°	2126.9	2054.7	2029.2	2161.3	2200.9	2308.8	2680.2	2775.7
47.5°	2255.9	2256.9	2297.8	2350.7	2343.9	2406.7	2770.9	2872.9
50°	2406.5	2509.2	2599.7	2634.8	2491.3	2511.9	2896.7	3003.1
52.5°	2587.3	2811.1	2923.1	2900.1	2650.1	2640.4	3095.9	3182.5
55°	2813.5	3130.7	3241.9	3225.4	2832.7	2815.4	3344.2	3394.7
57.5°	3075.3	3440.2	3542.6	3468.4	3051.8	3007.5	3549.6	3560.2
60°	3305.4	3685.6	3775.3	3693.1	3273.0	3211.8	3677.8	3626.1
62.5°	3433.4	3768.8	3831.8	3743.3	3424.5	3429.5	3705.9	3590.6
65°	3376.2	3558.6	3578.9	3571.6	3385.4	3555.8	3604.9	3425.9
67.5°	3063.0	3027.1	3061.3	3108.6	3050.9	3389.5	3324.8	3067.3
70°	2511.2	2314.1	2382.3	2414.0	2440.2	2916.8	2885.7	2498.4
72.5°	1892.5	1621.2	1675.0	1668.5	1789.7	2339.5	2244.3	1837.0
75°	1340.9	1099.2	1106.0	1103.3	1248.8	1830.4	1625.1	1256.8
77.5°	938.2	796.4	800.1	815.1	839.6	1380.5	1161.0	918.1
80°	645.1	604.4	624.5	625.8	581.9	927.3	857.8	736.8
82.5°	480.5	420.1	415.3	422.3	456.0	751.3	659.2	511.0
85°	393.5	248.7	200.0	250.7	404.1	744.1	437.9	269.6
87.5°	221.6	118.1	53.4	98.9	161.2	492.6	126.5	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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