

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: P228305

Luminaire Tested: **ISC-AF-450-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-450-LED-E1-SL3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

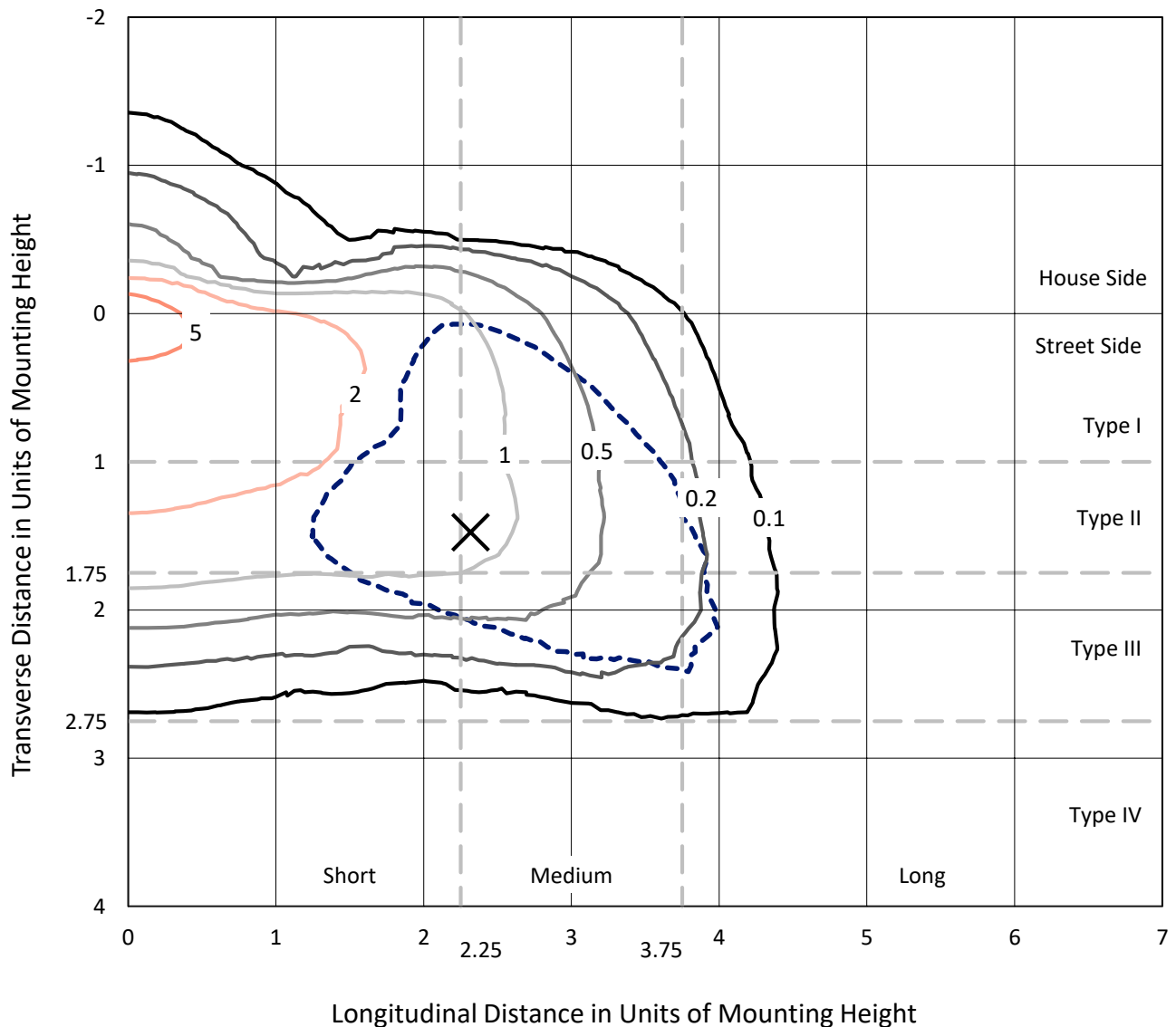
Lumens per Lamp: N/A  
Luminaire Lumens: 2851 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 25.31  
Input Voltage (V): 120  
Input 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



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### Iso-Footcandle Lines of Horizontal Illumination

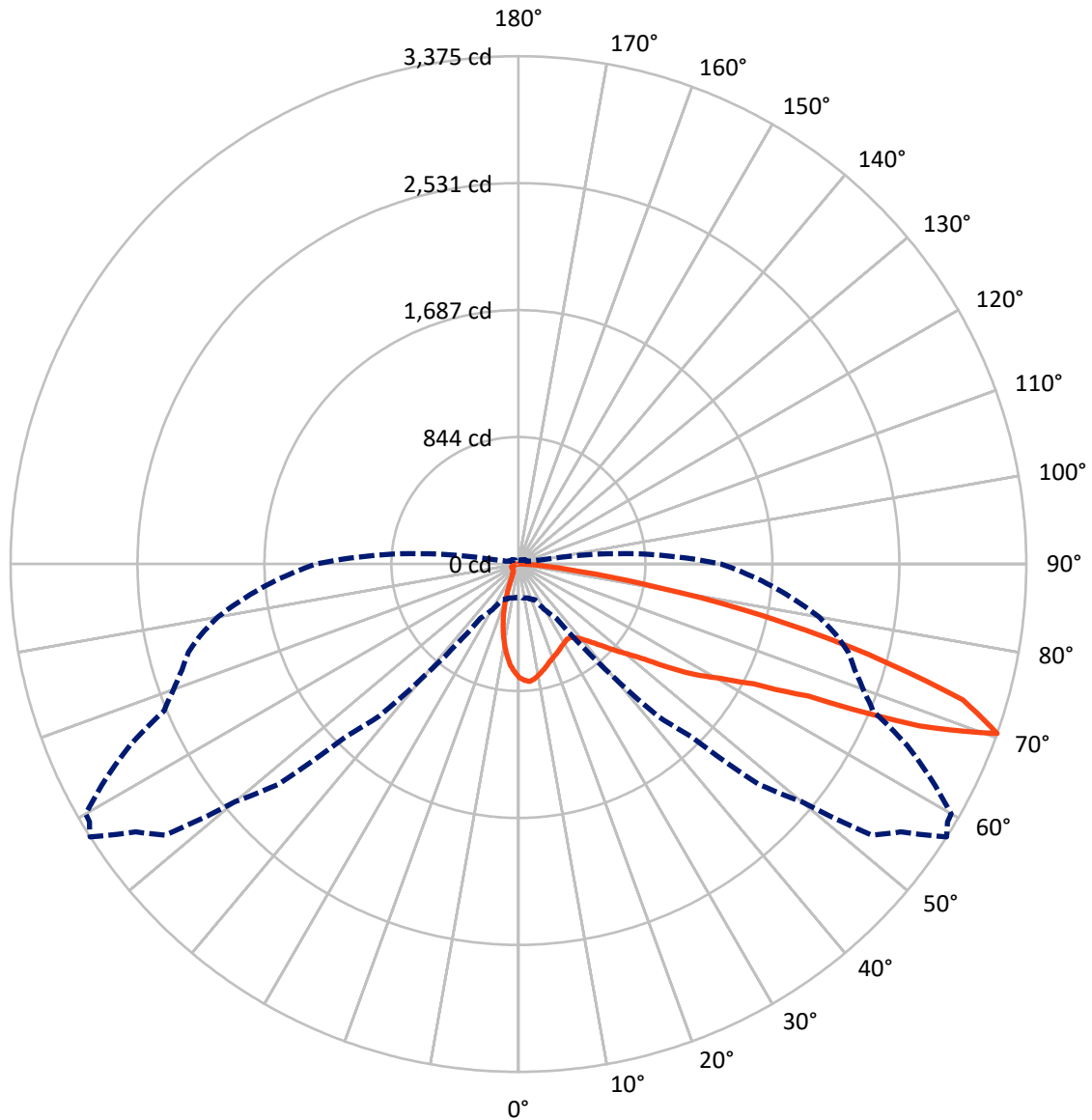
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	352.8	0.0	352.8
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	2498.2	0.0	2498.2
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	2851.0	0.0	2851.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	2.3
10°-20°	141.5	5.0
20°-30°	177.8	6.2
30°-40°	232.3	8.1
40°-50°	348.6	12.2
50°-60°	551.0	19.3
60°-70°	794.3	27.9
70°-80°	491.6	17.2
80°-90°	48.8	1.7
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°	2851.0	100.0
0°-180°	2851.0	100.0



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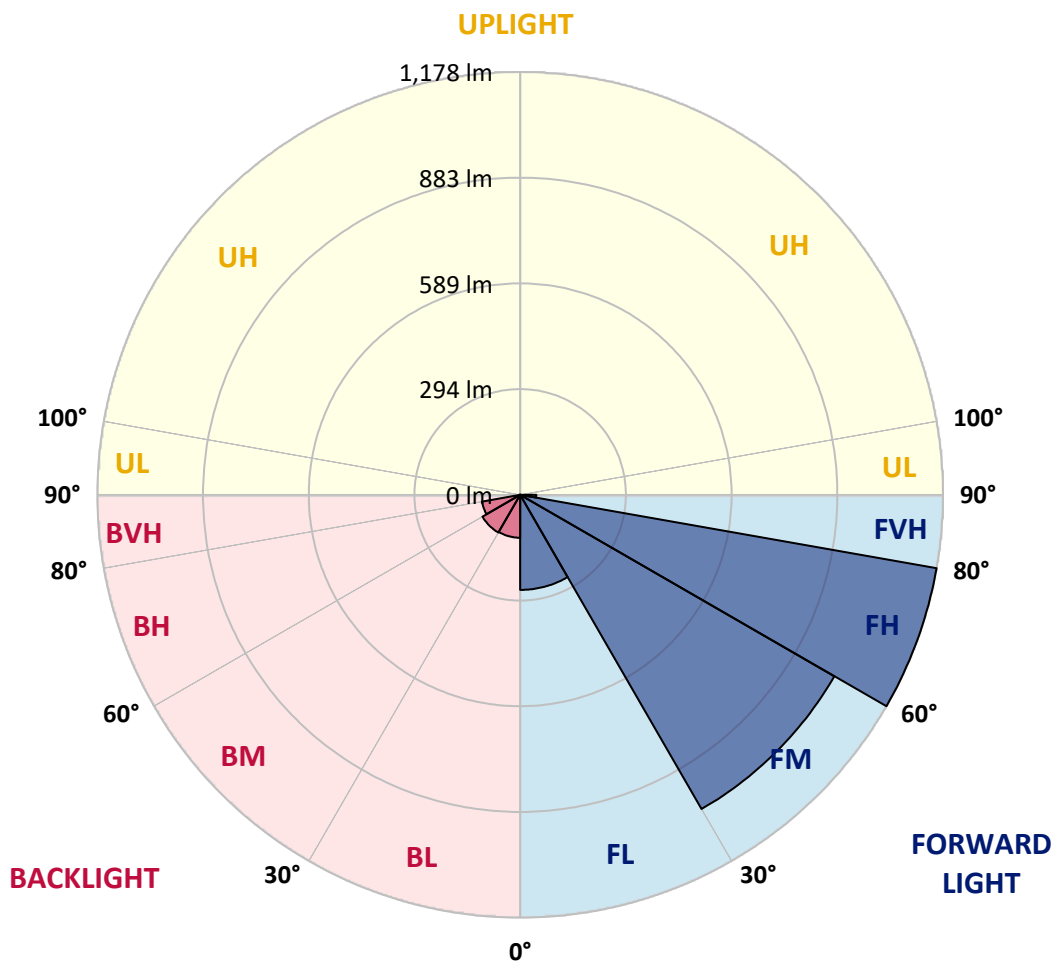
CATALOG NUMBER: ISC-AF-450-LED-E1-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.8	9.3			
FM	(30°-60°)	1010.6	35.4			
FH	(60°-80°)	1177.9	41.3			G1/1800
FVH	(80°-90°)	44.9	1.6			G1/100
BL	(0°-30°)	119.6	4.2	B1/500		
BM	(30°-60°)	121.3	4.3	B0/220		
BH	(60°-80°)	108.0	3.8	B0/110		G0/110
BVH	(80°-90°)	3.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	792.1	791.0	789.0	784.9	783.0	784.9	783.0	779.9	775.8	778.9	776.8
5°	790.0	792.1	788.0	784.9	790.0	792.1	788.0	788.0	783.9	788.0	785.9
7.5°	750.5	751.6	752.6	751.6	764.8	764.8	762.7	764.8	765.7	767.7	768.7
10°	701.0	702.1	704.0	707.1	723.2	725.3	726.3	728.3	731.3	733.4	739.4
12.5°	651.4	653.5	657.5	667.6	684.8	686.8	689.9	692.9	698.0	701.0	712.1
15°	610.0	611.0	615.0	626.1	651.4	656.5	658.5	662.6	672.7	672.7	684.8
17.5°	571.5	573.6	576.5	589.7	615.0	623.1	629.2	631.2	644.4	647.4	661.5
20°	542.2	543.2	544.2	556.4	579.6	591.8	596.8	604.9	615.0	623.1	635.3
22.5°	526.0	527.0	525.0	530.0	550.2	565.5	571.5	579.6	583.7	597.8	604.9
25°	527.0	528.0	522.9	520.0	530.0	546.3	551.3	559.3	557.3	577.6	577.6
27.5°	537.2	539.1	534.1	525.0	526.0	539.1	542.2	545.2	539.1	559.3	555.4
30°	557.3	559.3	553.3	546.3	535.1	543.2	543.2	543.2	532.0	549.2	542.2
32.5°	578.6	580.6	578.6	573.6	559.3	561.4	557.3	555.4	540.1	554.3	543.2
35°	610.0	611.0	611.9	611.9	591.8	595.8	584.6	578.6	564.5	575.5	560.4
37.5°	647.4	647.4	654.5	657.5	635.3	635.3	623.1	615.0	601.9	605.9	590.8
40°	680.8	683.8	700.0	709.1	688.9	680.8	670.6	663.6	653.5	653.5	638.3
42.5°	719.2	725.3	744.5	761.7	750.5	738.5	728.3	721.2	716.2	715.1	699.0
45°	766.7	773.9	795.0	811.2	814.3	805.2	797.1	790.0	785.9	783.9	769.8
47.5°	820.3	827.5	846.7	865.8	880.0	878.0	868.9	861.8	864.9	862.9	853.8
50°	880.0	884.0	896.2	918.5	950.8	957.9	955.8	950.8	956.9	956.9	948.8
52.5°	927.6	930.6	939.7	966.0	1019.6	1035.8	1048.9	1059.1	1069.2	1075.2	1070.2
55°	971.1	971.1	972.1	1005.5	1085.4	1111.6	1141.0	1162.3	1175.4	1199.7	1209.7
57.5°	1041.9	1036.9	1035.8	1071.2	1164.2	1191.5	1234.1	1264.4	1282.6	1332.2	1331.2
60°	1021.6	1023.7	1060.1	1164.2	1326.2	1350.4	1388.9	1421.2	1455.6	1492.0	1495.0
62.5°	881.1	886.1	940.7	1096.5	1429.3	1555.7	1674.1	1764.1	1814.7	1847.0	1802.5
65°	617.0	629.2	703.0	893.1	1316.0	1511.2	1698.4	1906.8	2066.6	2314.4	2386.2
67.5°	307.5	316.6	328.8	468.3	983.2	1257.3	1515.3	1799.5	2011.9	2376.1	2579.4
70°	220.5	224.5	233.6	263.0	440.0	658.5	962.0	1368.6	1618.4	2167.7	2455.0
72.5°	170.9	175.0	187.1	228.6	291.3	321.6	382.4	625.1	929.6	1497.1	1885.5
75°	132.5	138.6	155.8	206.3	280.2	297.4	300.4	322.6	368.2	664.6	1057.0
77.5°	93.1	94.1	111.3	178.0	272.1	305.5	300.4	300.4	306.5	338.9	452.1
80°	61.7	62.7	73.9	123.4	238.8	278.1	307.5	293.4	294.4	299.4	307.5
82.5°	32.3	34.4	43.5	74.9	139.6	188.1	255.9	267.1	263.0	268.0	266.1
85°	9.1	9.1	15.1	28.3	68.7	72.8	113.2	154.8	157.8	179.0	191.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.1	9.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	778.9	774.8	773.9	771.8	772.8	769.8	768.7	764.8	764.8	762.7	760.7
5°	783.9	779.9	783.9	776.8	777.9	774.8	769.8	769.8	765.7	762.7	756.6
7.5°	769.8	769.8	770.8	766.7	767.7	766.7	760.7	759.6	753.6	753.6	746.5
10°	743.5	743.5	747.5	744.5	745.5	744.5	741.4	740.4	738.5	738.5	727.3
12.5°	713.1	719.2	725.3	722.2	722.2	724.2	724.2	725.3	724.2	723.2	714.1
15°	687.8	696.9	703.0	702.1	703.0	708.1	710.1	711.2	714.1	713.1	705.0
17.5°	664.6	674.7	679.8	683.8	686.8	690.9	696.9	700.0	704.0	703.0	694.9
20°	643.3	652.4	661.5	666.6	667.6	675.7	682.8	691.9	693.9	695.9	685.8
22.5°	621.0	629.2	647.4	644.4	651.4	666.6	670.6	683.8	683.8	690.9	676.7
25°	601.9	602.8	631.2	626.1	632.2	659.5	662.6	685.8	679.8	689.9	673.7
27.5°	582.7	581.6	616.0	610.0	617.0	654.5	656.5	688.9	682.8	694.9	673.7
30°	568.5	565.5	604.9	592.8	602.8	649.4	650.4	691.9	686.8	703.0	680.8
32.5°	565.5	560.4	594.7	585.6	595.8	644.4	650.4	703.0	696.9	717.2	688.9
35°	578.6	570.5	599.9	591.8	599.9	646.4	655.5	720.3	713.1	736.4	708.1
37.5°	602.8	596.8	621.0	613.0	619.1	660.5	668.6	742.5	741.4	769.8	737.4
40°	645.4	639.2	658.5	647.4	652.4	690.9	694.9	773.9	776.8	811.2	778.9
42.5°	703.0	692.9	708.1	694.9	702.1	736.4	732.3	812.2	821.3	868.9	831.5
45°	776.8	763.7	772.8	758.6	763.7	793.0	781.9	863.9	873.0	931.6	898.3
47.5°	857.7	841.6	852.7	834.5	837.6	868.9	848.6	925.6	939.7	1013.5	981.2
50°	954.9	933.6	937.7	920.5	922.5	953.9	931.6	1001.4	1018.7	1100.6	1072.3
52.5°	1079.3	1048.9	1048.9	1025.7	1026.7	1058.0	1030.7	1091.5	1110.6	1193.6	1174.3
55°	1243.2	1218.8	1213.8	1189.6	1181.5	1187.5	1149.1	1191.5	1212.8	1290.8	1275.5
57.5°	1373.6	1370.7	1385.8	1351.4	1343.3	1345.4	1296.8	1299.9	1324.1	1384.8	1389.9
60°	1532.5	1537.5	1539.5	1511.2	1508.2	1479.9	1430.3	1422.2	1452.6	1494.0	1510.2
62.5°	1785.4	1780.3	1755.0	1733.8	1714.6	1638.7	1611.4	1566.9	1609.3	1632.6	1666.0
65°	2328.5	2276.0	2114.1	2128.2	2077.7	1912.8	1889.5	1799.5	1866.3	1867.3	1930.0
67.5°	2866.7	2969.8	2870.7	2872.8	2758.5	2460.0	2388.2	2209.2	2246.6	2203.1	2235.5
70°	2958.7	3103.3	3374.5	3325.9	3319.9	3090.2	2848.5	2550.1	2437.8	2344.7	2269.8
72.5°	2546.0	2690.7	3088.2	2977.9	3019.4	3089.2	2837.4	2613.8	2362.9	2244.6	2082.7
75°	1791.4	1999.8	2403.4	2345.7	2376.1	2491.4	2274.9	2248.7	1958.3	1879.5	1630.6
77.5°	959.9	1217.9	1670.1	1599.2	1612.4	1678.2	1452.6	1406.0	1125.9	1047.9	765.7
80°	431.9	598.8	937.7	858.8	835.5	798.1	587.7	463.3	283.3	188.1	130.5
82.5°	286.2	297.4	415.7	360.1	336.9	278.1	180.0	106.2	84.0	70.8	67.8
85°	192.2	176.0	175.0	154.8	143.6	113.2	84.0	52.6	43.5	36.4	33.3
87.5°	11.2	7.1	10.1	11.2	8.1	7.1	5.0	0.0	1.0	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	755.7	755.7	754.6	747.5	743.5	741.4	734.4	733.4	730.3	729.4	729.4
5°	754.6	750.5	745.5	735.4	725.3	716.2	713.1	706.0	701.0	694.9	694.9
7.5°	740.4	736.4	725.3	710.1	696.9	683.8	676.7	666.6	658.5	650.4	648.3
10°	724.2	718.2	703.0	682.8	665.6	642.3	633.2	620.1	611.0	598.8	586.7
12.5°	707.1	703.0	684.8	661.5	635.3	605.9	591.8	573.6	561.4	547.3	529.1
15°	700.0	691.9	668.6	639.2	606.9	571.5	551.3	532.0	513.8	497.7	473.4
17.5°	690.9	680.8	654.5	620.1	579.6	537.2	510.9	489.6	465.3	448.2	420.8
20°	680.8	665.6	637.3	595.8	550.2	499.7	466.4	445.1	412.7	395.5	363.1
22.5°	672.7	653.5	619.1	572.5	517.9	461.2	421.8	397.5	361.1	340.8	300.4
25°	670.6	647.4	605.9	553.3	490.6	423.8	376.2	352.0	306.5	283.3	235.7
27.5°	671.7	644.4	597.8	537.2	466.4	390.5	333.8	305.5	247.9	223.5	168.9
30°	672.7	645.4	589.7	522.9	444.1	356.1	289.3	255.9	187.1	165.9	117.3
32.5°	682.8	649.4	587.7	511.9	423.8	321.6	238.8	208.4	132.5	120.4	87.0
35°	694.9	662.6	591.8	509.8	408.7	287.2	187.1	155.8	95.1	92.1	70.8
37.5°	720.3	682.8	607.9	514.9	399.6	251.9	139.6	119.4	74.9	76.9	61.7
40°	758.6	717.2	634.2	530.0	398.5	216.5	103.2	93.1	64.8	66.8	56.7
42.5°	810.3	764.8	674.7	562.4	403.6	183.1	83.0	79.9	59.6	61.7	54.6
45°	878.0	831.5	731.3	603.8	417.8	155.8	72.8	72.8	57.7	59.6	53.6
47.5°	964.0	912.4	801.2	659.5	440.0	140.6	68.7	69.8	56.7	59.6	53.6
50°	1061.1	1004.4	890.2	731.3	474.4	136.6	69.8	69.8	57.7	59.6	53.6
52.5°	1162.3	1109.7	986.2	813.2	521.9	145.7	71.8	70.8	57.7	59.6	52.6
55°	1265.4	1217.9	1092.4	909.4	587.7	178.0	76.9	73.9	57.7	59.6	53.6
57.5°	1368.6	1335.3	1203.7	1012.5	669.6	236.7	97.1	86.0	63.7	64.8	54.6
60°	1484.9	1460.7	1329.1	1148.1	785.9	327.8	142.6	108.2	75.9	71.8	58.7
62.5°	1635.6	1629.6	1525.4	1343.3	973.1	459.2	202.3	131.4	81.9	74.9	62.7
65°	1901.7	1917.8	1818.7	1572.0	1097.5	462.3	197.2	115.3	76.9	70.8	61.7
67.5°	2168.8	2121.2	1866.3	1537.5	990.3	307.5	125.4	90.0	67.8	65.8	57.7
70°	2158.6	2029.1	1692.3	1344.4	781.9	166.9	91.0	74.9	60.7	60.7	54.6
72.5°	1936.0	1743.9	1383.7	1064.2	521.9	106.2	76.9	65.8	55.6	54.6	50.5
75°	1457.6	1231.0	889.1	613.0	232.6	68.7	58.7	53.6	48.6	48.6	44.5
77.5°	685.8	386.4	214.4	142.6	77.8	46.5	40.5	40.5	39.5	40.5	36.4
80°	93.1	84.0	71.8	62.7	47.6	32.3	29.4	30.4	29.4	30.4	27.3
82.5°	56.7	50.5	41.4	39.5	29.4	22.3	21.3	22.3	20.3	21.3	16.2
85°	27.3	24.2	19.2	18.2	15.1	13.2	11.2	13.2	10.1	11.2	7.1
87.5°	0.0	2.0	1.0	2.0	2.0	2.0	0.0	2.0	0.0	2.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISC-AF-450-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	724.2	721.2	720.3	716.2	715.1	711.2	710.1	706.0	699.0	695.9	690.9
5°	685.8	680.8	676.7	674.7	666.6	662.6	656.5	648.3	633.2	626.1	614.0
7.5°	632.2	631.2	619.1	615.0	604.9	597.8	588.7	575.5	553.3	540.1	521.0
10°	573.6	569.5	555.4	547.3	534.1	524.0	511.9	492.7	458.2	430.9	401.6
12.5°	518.9	506.8	490.6	478.4	462.3	448.2	433.9	404.6	350.0	305.5	265.0
15°	462.3	444.1	426.9	406.6	389.4	367.1	351.0	312.6	240.7	186.1	160.8
17.5°	404.6	379.3	360.1	332.8	313.5	283.3	266.1	219.5	157.8	133.5	125.4
20°	343.9	310.6	289.3	255.9	236.7	198.2	185.2	151.7	121.4	112.3	110.3
22.5°	279.2	238.8	215.4	179.0	165.9	142.6	132.5	116.3	102.2	98.1	100.1
25°	211.4	167.9	152.7	126.4	121.4	109.3	105.2	97.1	90.0	90.0	93.1
27.5°	150.7	117.3	113.2	97.1	96.1	90.0	87.0	83.0	80.9	83.0	87.0
30°	110.3	89.0	89.0	79.9	79.9	75.9	74.9	72.8	72.8	76.9	80.9
32.5°	87.0	72.8	74.9	67.8	68.7	65.8	66.8	65.8	66.8	69.8	72.8
35°	72.8	62.7	65.8	59.6	61.7	58.7	60.7	60.7	62.7	63.7	64.8
37.5°	64.8	57.7	59.6	55.6	57.7	54.6	57.7	57.7	58.7	58.7	58.7
40°	59.6	53.6	56.7	52.6	55.6	52.6	55.6	55.6	54.6	53.6	54.6
42.5°	56.7	52.6	55.6	51.6	54.6	51.6	53.6	52.6	50.5	50.5	50.5
45°	55.6	51.6	53.6	50.5	52.6	49.6	51.6	50.5	47.6	46.5	48.6
47.5°	55.6	50.5	53.6	49.6	51.6	48.6	50.5	47.6	44.5	44.5	47.6
50°	55.6	50.5	53.6	49.6	51.6	47.6	48.6	45.5	41.4	42.5	46.5
52.5°	56.7	52.6	54.6	50.5	51.6	45.5	47.6	43.5	40.5	41.4	44.5
55°	57.7	52.6	54.6	48.6	49.6	45.5	45.5	43.5	40.5	40.5	43.5
57.5°	57.7	51.6	52.6	47.6	48.6	43.5	44.5	42.5	39.5	38.5	40.5
60°	59.6	53.6	53.6	46.5	47.6	42.5	43.5	41.4	38.5	36.4	37.4
62.5°	61.7	54.6	55.6	48.6	48.6	43.5	44.5	40.5	36.4	34.4	35.4
65°	61.7	54.6	55.6	49.6	49.6	44.5	44.5	40.5	34.4	32.3	32.3
67.5°	58.7	53.6	54.6	49.6	49.6	44.5	44.5	39.5	33.3	30.4	29.4
70°	56.7	51.6	52.6	46.5	47.6	42.5	42.5	37.4	31.4	28.3	26.3
72.5°	51.6	47.6	47.6	43.5	42.5	37.4	37.4	34.4	29.4	25.3	23.2
75°	44.5	40.5	39.5	35.4	35.4	32.3	31.4	28.3	24.2	21.3	20.3
77.5°	36.4	31.4	31.4	26.3	26.3	23.2	24.2	21.3	18.2	17.2	16.2
80°	26.3	21.3	21.3	17.2	17.2	14.1	15.1	14.1	13.2	13.2	12.2
82.5°	16.2	11.2	12.2	9.1	11.2	8.1	9.1	8.1	8.1	7.1	7.1
85°	8.1	4.1	6.0	3.1	5.0	1.0	3.1	2.0	2.0	2.0	2.0
87.5°	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P228305

CATALOG NUMBER: ISC-AF-450-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	754.6	754.6
2.5°	685.8	688.9
5°	610.0	611.0
7.5°	517.9	515.9
10°	395.5	390.5
12.5°	254.9	247.9
15°	153.7	151.7
17.5°	123.4	123.4
20°	110.3	110.3
22.5°	102.2	102.2
25°	96.1	97.1
27.5°	91.0	91.0
30°	85.0	85.0
32.5°	74.9	74.9
35°	66.8	65.8
37.5°	59.6	60.7
40°	54.6	55.6
42.5°	52.6	52.6
45°	50.5	50.5
47.5°	50.5	50.5
50°	49.6	50.5
52.5°	48.6	48.6
55°	45.5	46.5
57.5°	42.5	43.5
60°	39.5	39.5
62.5°	35.4	35.4
65°	32.3	32.3
67.5°	28.3	28.3
70°	25.3	25.3
72.5°	22.3	22.3
75°	19.2	19.2
77.5°	16.2	15.1
80°	12.2	12.2
82.5°	7.1	7.1
85°	2.0	2.0
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)