

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: INVUE

Report Number: P181627

Luminaire Tested: **ICM-E02-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181627
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4745.3 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

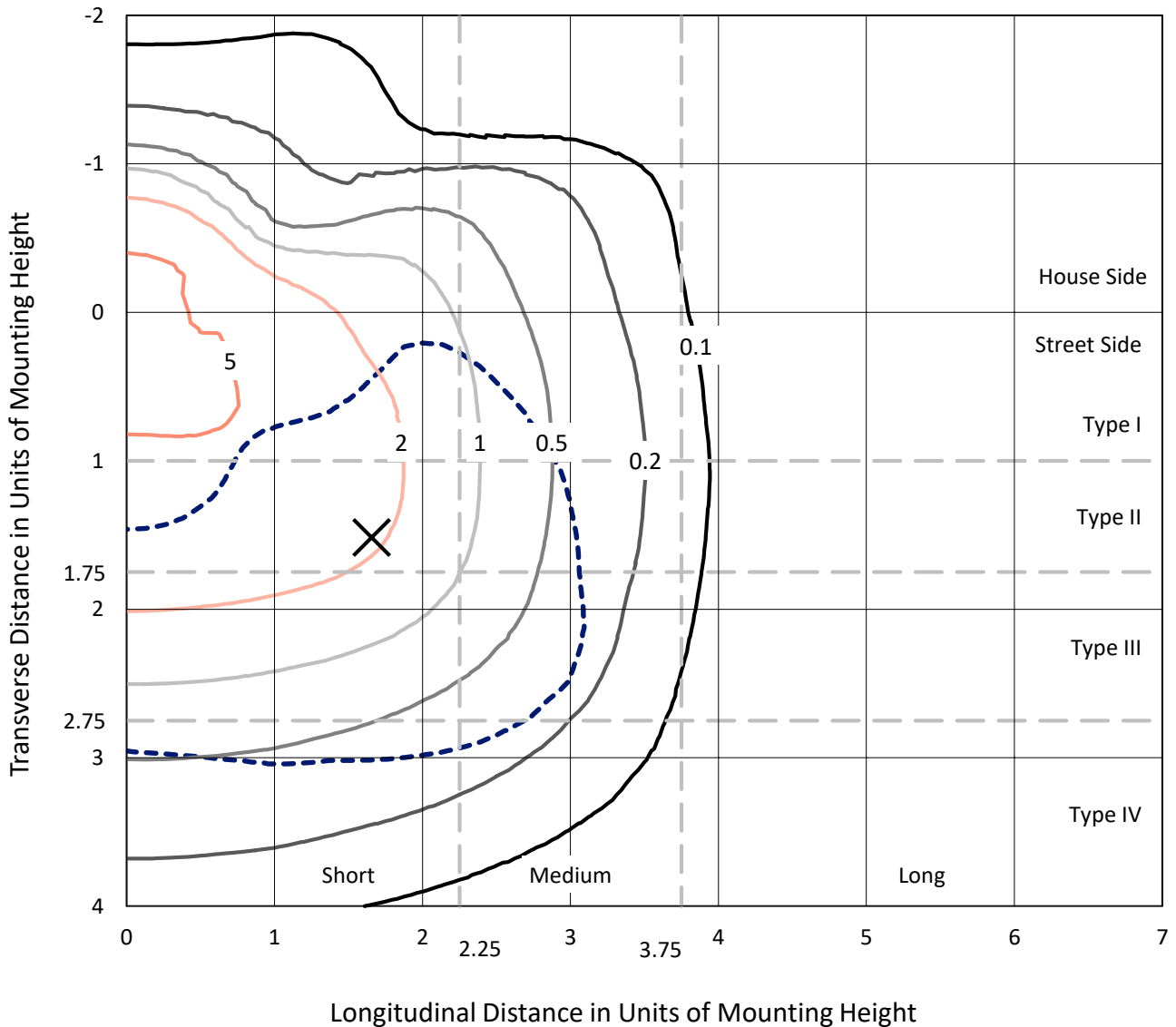


REPORT NUMBER: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

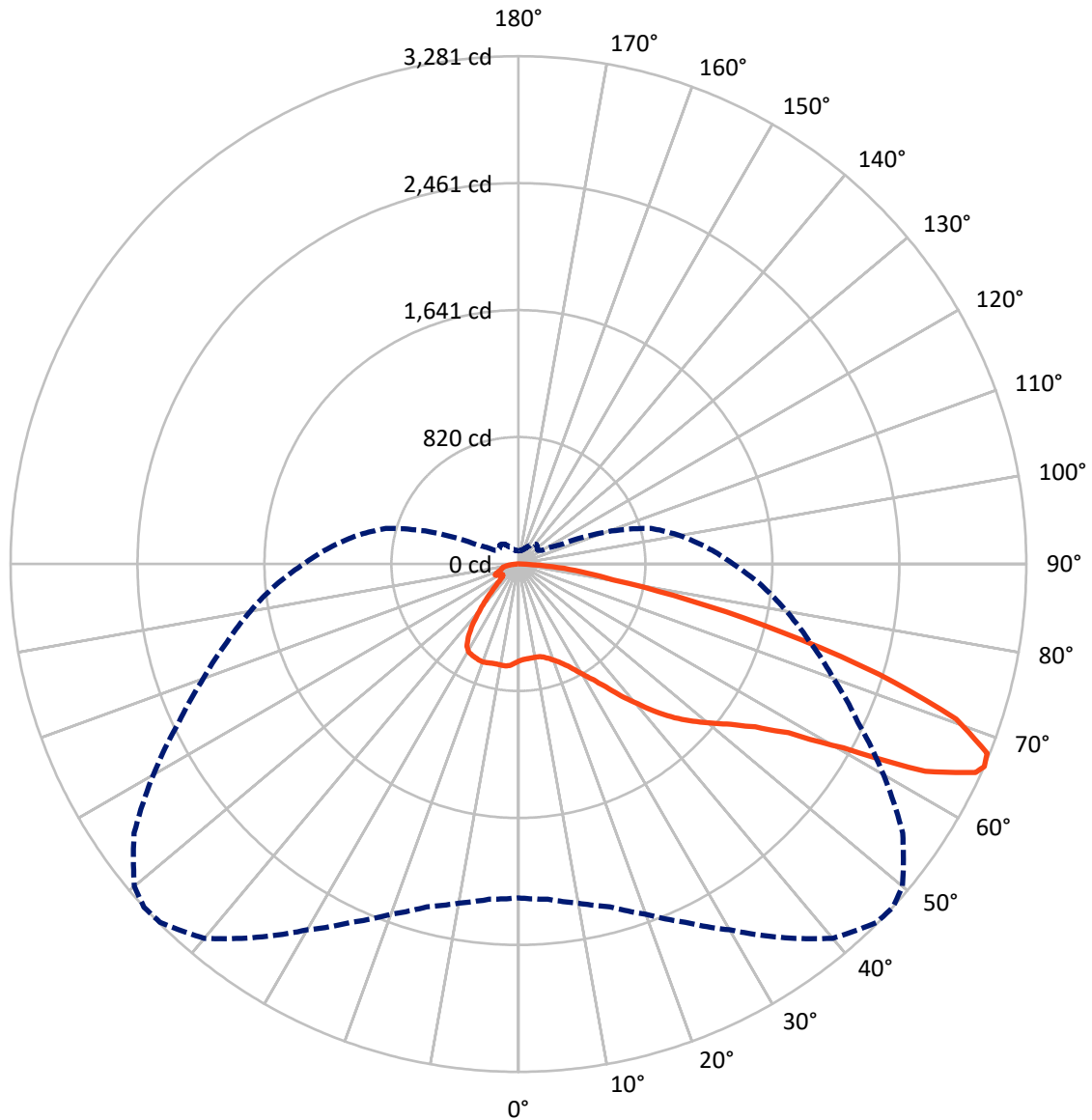


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

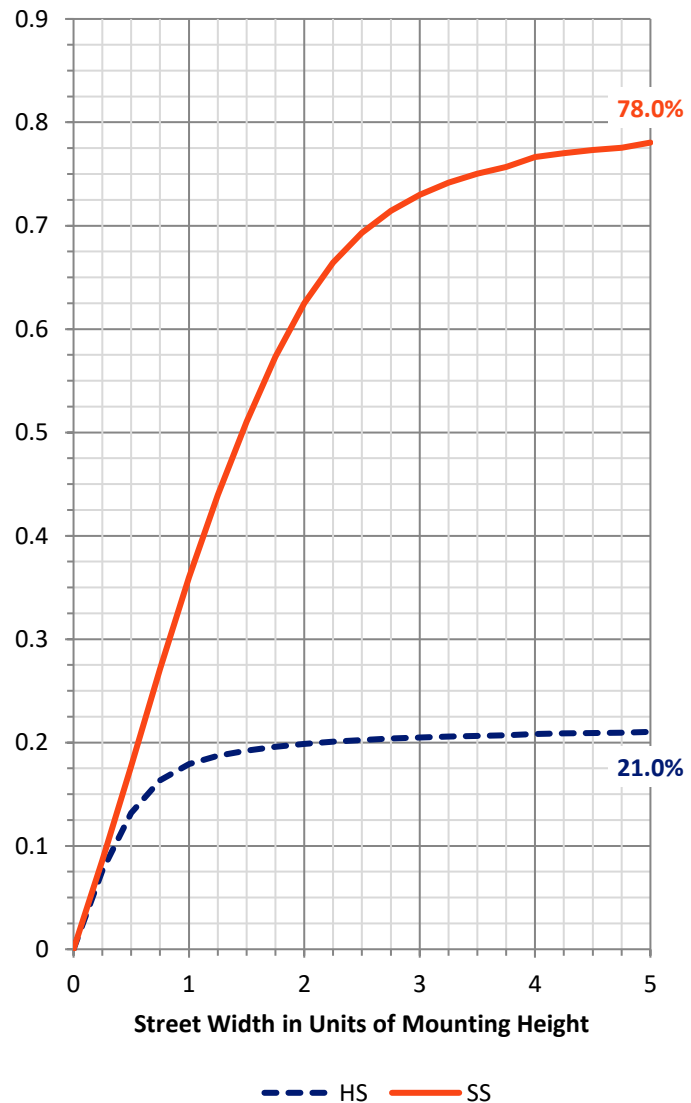
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.5	0.0	1012.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3732.8	0.0	3732.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	4745.3	0.0	4745.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.3
10°-20°	184.4	3.9
20°-30°	317.6	6.7
30°-40°	480.6	10.1
40°-50°	622.9	13.1
50°-60°	858.7	18.1
60°-70°	1334.2	28.1
70°-80°	775.8	16.3
80°-90°	110.3	2.3
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°	4745.3	100.0
0°-180°	4745.3	100.0

Coefficient of Utilization



REPORT NUMBER: P181627

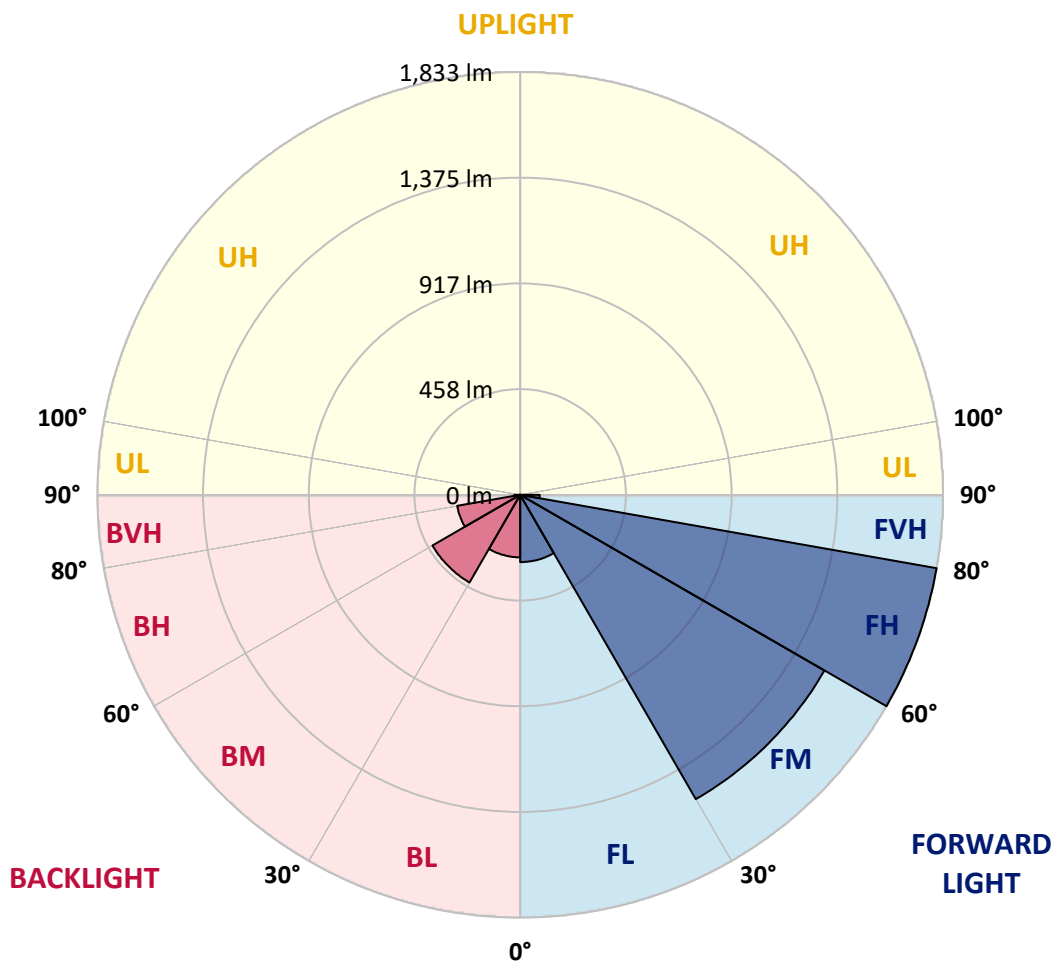
CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.7	6.1			
FM	(30°-60°)	1523.2	32.1			
FH	(60°-80°)	1833.1	38.6			G2/5000
FVH	(80°-90°)	84.7	1.8			G1/100
BL	(0°-30°)	271.0	5.7	B1/500		
BM	(30°-60°)	438.9	9.2	B1/1000		
BH	(60°-80°)	276.9	5.8	B1/500		G1/500
BVH	(80°-90°)	25.7	0.5			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: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	614.0	616.1	614.5	615.0	615.0	615.5	615.5	616.1	615.5	617.1	618.1
5°	603.0	604.0	603.4	604.6	605.6	607.6	607.2	609.8	610.3	611.9	614.5
7.5°	598.8	597.8	598.2	599.8	600.8	602.0	603.0	605.0	606.6	610.3	612.4
10°	603.0	602.4	603.0	604.0	604.0	604.6	603.4	605.6	606.6	609.8	611.9
12.5°	620.3	620.3	619.2	619.2	618.1	617.1	614.5	612.9	612.4	612.9	614.0
15°	648.0	646.9	644.8	643.3	641.2	637.5	633.9	630.7	628.7	625.5	624.5
17.5°	675.2	673.6	671.5	669.4	666.8	663.2	657.4	653.8	648.0	644.3	642.2
20°	706.6	703.4	700.8	698.2	693.0	691.9	686.1	679.9	673.1	664.7	663.7
22.5°	747.4	742.2	739.1	737.5	732.3	730.7	721.2	712.4	704.0	693.0	690.3
25°	788.7	783.5	782.0	779.9	776.2	774.1	765.2	755.3	744.3	729.1	726.0
27.5°	829.1	829.6	825.4	827.0	826.0	822.2	813.4	803.4	795.1	777.3	773.6
30°	879.4	876.2	874.1	877.2	873.6	874.1	866.2	861.0	847.4	836.9	829.6
32.5°	931.6	931.2	934.2	936.4	935.8	934.8	928.6	923.3	911.3	896.1	892.9
35°	1003.4	1006.5	1009.1	1018.5	1018.5	1025.4	1019.1	1012.8	998.7	980.4	974.1
37.5°	1052.0	1053.1	1063.5	1076.1	1091.8	1106.5	1110.7	1112.3	1106.5	1092.8	1083.4
40°	1096.6	1098.6	1115.4	1134.7	1157.8	1186.6	1203.8	1211.7	1213.2	1207.0	1186.6
42.5°	1141.0	1144.2	1161.4	1189.7	1221.6	1258.2	1288.7	1308.0	1319.0	1319.0	1307.0
45°	1192.8	1197.0	1215.9	1246.8	1283.9	1330.0	1371.8	1409.0	1426.8	1427.8	1416.4
47.5°	1254.1	1257.8	1279.7	1311.2	1349.3	1395.9	1448.8	1491.2	1524.2	1526.2	1516.8
50°	1333.1	1338.3	1356.7	1384.9	1424.2	1471.3	1524.2	1583.3	1617.9	1626.2	1616.3
52.5°	1437.8	1438.9	1454.1	1480.2	1518.4	1563.5	1619.5	1683.8	1729.3	1736.1	1719.9
55°	1582.2	1580.7	1590.6	1618.9	1647.7	1682.8	1740.8	1813.1	1863.8	1874.3	1857.6
57.5°	1778.5	1776.9	1785.3	1792.1	1846.1	1880.1	1937.1	2006.2	2055.5	2085.8	2057.0
60°	2082.6	2081.0	2094.7	2134.4	2174.8	2224.5	2279.9	2362.7	2431.7	2440.7	2412.4
62.5°	2303.0	2310.8	2340.7	2387.3	2468.9	2566.2	2667.8	2776.7	2918.5	2963.6	2950.0
65°	2226.1	2241.8	2283.1	2353.8	2462.6	2597.1	2756.3	2953.6	3143.6	3249.9	3246.7
66°	2156.9	2174.2	2225.0	2293.0	2408.2	2555.3	2729.0	2944.2	3156.7	3273.9	3281.2
67.5°	2031.4	2050.7	2100.5	2181.0	2293.0	2449.6	2636.4	2870.3	3110.6	3247.2	3266.6
70°	1786.9	1808.9	1845.0	1911.5	2022.0	2161.7	2358.4	2567.8	2819.6	2976.1	2999.6
72.5°	1493.8	1513.2	1553.5	1607.9	1698.4	1786.4	1940.8	2095.2	2275.3	2453.8	2436.5
75°	1072.5	1080.8	1104.9	1164.1	1212.8	1291.7	1415.8	1542.5	1665.5	1747.2	1758.6
77.5°	557.4	579.4	613.4	678.9	731.7	802.9	883.5	978.8	1068.8	1143.6	1123.3
80°	364.8	374.2	404.6	438.0	476.8	522.3	576.3	611.9	623.4	618.7	623.4
82.5°	210.4	227.7	268.0	293.7	322.4	338.1	381.0	421.9	444.9	416.1	405.7
85°	26.7	34.5	108.8	137.1	157.0	180.6	193.7	218.2	203.6	182.1	222.0
87.5°	5.8	5.2	7.3	15.7	16.2	13.6	25.7	27.3	16.7	8.4	10.5
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: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	619.2	619.7	620.7	622.3	623.4	624.5	625.5	627.1	628.1	629.1	631.3
5°	616.6	618.7	620.7	622.9	625.5	629.7	632.3	634.3	636.5	640.7	642.2
7.5°	615.0	618.7	621.8	625.5	629.7	633.3	638.1	640.7	643.8	646.4	649.6
10°	614.0	619.2	622.3	627.5	632.3	635.9	641.2	644.3	648.0	651.1	652.7
12.5°	616.1	618.7	621.8	627.1	632.8	638.1	643.8	646.4	649.6	652.2	652.7
15°	624.9	624.9	625.5	629.7	635.4	639.6	644.3	646.9	648.5	650.1	650.1
17.5°	641.2	637.5	634.9	635.4	639.1	641.7	644.3	644.3	643.3	642.7	641.7
20°	660.0	655.4	650.1	646.4	645.4	643.3	641.7	636.5	632.3	628.7	626.0
22.5°	687.3	679.9	672.6	665.8	659.5	651.6	642.7	632.3	622.3	615.5	611.4
25°	720.7	715.0	706.1	695.6	687.7	673.1	661.6	646.4	633.9	624.9	617.6
27.5°	768.4	761.6	753.2	743.7	732.3	716.0	701.9	684.1	668.9	655.8	646.4
30°	827.5	818.6	812.3	800.8	792.9	774.6	760.5	738.5	709.2	688.3	675.2
32.5°	888.2	878.2	873.0	864.2	855.3	844.3	822.8	788.7	751.1	717.0	694.6
35°	969.3	958.9	949.5	941.6	928.6	908.1	889.3	848.5	796.7	749.0	711.4
37.5°	1071.4	1054.1	1030.6	1010.7	987.6	958.3	929.6	887.7	828.6	766.8	716.6
40°	1180.3	1150.0	1116.5	1079.3	1039.4	997.1	964.1	921.7	855.3	782.0	712.8
42.5°	1293.9	1245.7	1199.2	1146.8	1091.3	1041.0	998.1	951.5	875.2	786.1	698.2
45°	1406.4	1352.5	1281.9	1213.2	1143.2	1080.8	1032.7	980.4	893.5	787.7	678.9
47.5°	1499.5	1444.1	1363.5	1277.7	1194.4	1123.7	1067.3	1010.7	918.1	798.7	674.1
50°	1598.0	1530.4	1440.9	1339.4	1245.2	1166.1	1106.0	1047.4	952.6	827.0	689.3
52.5°	1705.2	1627.8	1523.1	1409.5	1306.4	1218.0	1152.6	1092.4	996.6	866.8	718.1
55°	1836.1	1741.4	1627.8	1499.5	1389.1	1291.3	1219.0	1147.8	1048.9	913.9	754.2
57.5°	2036.0	1919.8	1792.1	1646.1	1523.6	1408.0	1321.6	1239.4	1130.1	984.0	803.4
60°	2397.7	2273.7	2107.7	1930.9	1786.9	1651.9	1525.2	1423.2	1288.7	1122.1	912.3
62.5°	2915.9	2751.0	2529.6	2282.1	2093.6	1898.9	1756.0	1604.3	1437.3	1257.8	1040.6
65°	3203.7	3003.8	2707.6	2420.2	2177.9	1966.4	1784.8	1608.9	1423.6	1252.0	1070.3
66°	3239.4	3031.1	2723.3	2420.8	2166.4	1949.1	1758.2	1576.0	1386.5	1222.7	1057.8
67.5°	3224.8	3011.6	2694.5	2375.3	2116.7	1883.3	1685.9	1496.9	1308.0	1155.2	1015.9
70°	2984.5	2782.4	2471.0	2161.7	1916.2	1685.9	1497.5	1311.6	1138.4	1007.5	904.9
72.5°	2478.3	2305.6	2035.0	1792.1	1599.5	1409.5	1249.9	1072.5	925.9	829.1	768.4
75°	1789.0	1684.3	1437.8	1298.6	1129.5	1003.4	848.5	743.3	638.1	590.9	580.5
77.5°	1130.1	989.2	832.7	685.7	563.7	467.4	363.7	308.8	257.5	252.3	304.7
80°	572.1	515.1	396.7	316.1	265.9	215.2	170.1	128.7	90.0	108.4	129.8
82.5°	374.8	312.5	244.9	201.5	175.3	145.5	113.0	78.5	57.6	64.9	89.0
85°	202.5	172.7	139.3	110.0	89.0	79.5	53.4	37.7	37.1	39.8	50.8
87.5°	14.7	14.7	11.5	10.5	12.6	10.5	9.4	9.4	8.9	9.4	12.6
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: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	632.3	633.9	634.3	637.0	638.5	639.6	640.7	640.7	641.2	642.7	643.3
5°	644.3	646.9	650.1	652.2	653.2	656.4	657.4	657.4	658.4	660.6	662.1
7.5°	651.6	655.4	658.4	659.5	661.6	662.6	664.2	665.2	665.2	667.4	668.4
10°	654.2	656.4	659.5	659.5	661.6	661.6	663.2	663.7	663.7	665.8	667.4
12.5°	654.2	655.4	658.0	658.0	659.5	660.0	662.1	663.7	664.2	666.8	668.9
15°	651.1	652.2	654.2	654.8	658.4	660.6	665.2	668.4	668.4	671.0	672.1
17.5°	642.2	644.8	649.0	653.2	660.0	664.7	670.5	673.1	671.0	669.4	667.9
20°	627.5	632.3	642.2	652.7	664.7	671.0	674.1	671.5	664.2	656.8	652.2
22.5°	612.9	622.3	639.1	654.8	668.4	672.6	671.0	661.6	649.6	640.7	634.3
25°	619.7	630.7	646.9	661.0	670.0	668.9	662.6	649.6	636.5	624.9	614.5
27.5°	648.0	660.0	668.9	673.6	672.6	665.2	655.4	640.7	624.9	609.8	595.1
30°	674.7	680.9	683.1	679.4	671.0	659.0	646.4	629.7	608.7	589.9	573.1
32.5°	686.7	680.5	670.5	660.6	646.9	636.5	619.2	600.8	574.7	552.2	535.4
35°	686.7	661.6	636.5	615.5	595.1	582.1	562.1	537.6	513.5	494.6	481.5
37.5°	671.5	623.4	582.1	548.0	522.3	508.2	478.4	456.4	436.0	429.7	421.3
40°	643.8	572.7	512.9	468.5	436.0	415.1	385.2	370.0	362.2	359.1	357.5
42.5°	606.6	516.1	436.6	381.6	346.5	323.0	303.1	293.7	293.1	292.6	292.6
45°	566.9	455.4	362.2	296.7	265.9	244.9	235.5	231.9	235.0	234.5	235.0
47.5°	542.2	409.3	294.1	224.6	201.0	187.3	182.7	184.3	186.9	185.8	185.8
50°	539.1	385.8	248.7	174.8	157.0	150.2	149.2	149.2	150.7	149.7	149.2
52.5°	550.6	382.0	225.0	150.2	136.1	130.3	129.3	128.7	128.3	125.1	122.5
55°	570.5	390.4	218.2	143.9	129.3	123.0	121.4	120.4	118.3	114.1	109.4
57.5°	610.3	416.7	224.6	147.1	131.3	126.1	124.6	124.6	120.4	113.6	106.8
60°	706.1	483.1	250.2	159.1	141.3	136.1	137.1	136.7	130.3	120.4	110.0
62.5°	829.6	570.0	283.7	175.9	153.9	152.8	158.0	157.0	146.5	131.3	116.2
65°	886.6	610.8	293.1	179.5	156.5	161.2	171.7	170.6	157.6	136.7	117.2
66°	887.7	610.8	288.9	176.4	152.8	158.6	169.0	168.6	155.4	134.5	115.2
67.5°	866.2	594.1	276.8	170.1	145.5	149.7	159.1	158.6	146.5	129.3	111.0
70°	785.7	531.8	246.0	159.1	135.5	133.5	136.7	134.5	126.7	114.6	102.0
72.5°	673.1	446.4	214.6	150.7	128.7	120.4	118.3	116.7	110.4	103.6	95.8
75°	530.2	353.3	188.5	144.5	122.5	111.4	107.8	105.8	101.6	96.8	90.5
77.5°	327.2	252.8	164.4	136.1	117.8	106.8	104.2	101.0	94.7	89.0	84.3
80°	146.0	156.5	135.1	118.8	105.2	95.3	91.1	86.3	80.1	76.4	73.8
82.5°	97.4	101.0	97.9	89.0	79.5	71.7	65.4	65.4	64.4	61.2	60.2
85°	62.3	62.8	60.7	55.0	51.3	46.6	44.0	44.5	46.6	46.0	45.6
87.5°	14.1	14.1	16.7	15.7	18.3	19.3	20.9	22.5	25.7	25.7	27.3
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: P181627

CATALOG NUMBER: ICM-E02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	625.5	625.5	625.5	625.5	625.5
2.5°	643.8	644.8	645.9	644.3	644.8
5°	662.1	661.6	664.2	662.6	663.7
7.5°	667.9	668.4	670.5	670.5	671.0
10°	668.4	669.4	672.1	673.6	674.7
12.5°	671.0	673.1	677.3	678.3	678.3
15°	673.1	674.1	676.7	677.8	678.9
17.5°	665.8	663.7	664.7	665.2	664.7
20°	647.4	645.4	644.8	642.7	643.8
22.5°	627.5	621.8	618.1	614.0	614.0
25°	603.4	594.6	587.3	579.9	581.5
27.5°	581.0	569.5	562.1	557.4	556.4
30°	559.0	547.0	540.2	534.4	534.4
32.5°	522.3	514.0	505.1	501.4	500.9
35°	471.6	466.3	459.1	457.5	454.9
37.5°	414.5	412.9	406.7	406.1	403.5
40°	354.9	355.9	353.9	352.7	351.2
42.5°	295.2	300.5	299.4	298.9	297.9
45°	238.1	241.8	242.3	243.9	246.5
47.5°	187.3	188.5	189.5	188.9	189.5
50°	146.5	143.9	143.4	141.9	143.4
52.5°	118.3	114.1	112.0	110.0	108.8
55°	104.2	100.0	97.9	96.8	95.8
57.5°	100.5	96.3	93.2	91.1	90.5
60°	101.6	95.3	91.1	88.5	87.9
62.5°	104.2	95.8	90.0	87.4	86.9
65°	103.6	94.7	89.5	86.3	85.9
66°	102.0	93.7	88.5	85.9	85.3
67.5°	99.4	92.1	87.4	85.3	84.3
70°	94.7	90.0	86.3	83.7	82.7
72.5°	90.5	86.9	83.7	81.1	80.6
75°	85.9	82.7	79.5	77.5	76.9
77.5°	80.1	76.9	74.9	73.3	72.7
80°	70.7	68.6	66.5	64.4	64.4
82.5°	58.6	57.0	55.0	53.4	52.8
85°	45.0	45.0	43.4	41.9	41.4
87.5°	26.7	26.1	26.1	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

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