

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: P181619

Luminaire Tested: **ICM-E01-LED-E1-T4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181619  
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-E01-LED-E1-T4  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2811.2 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

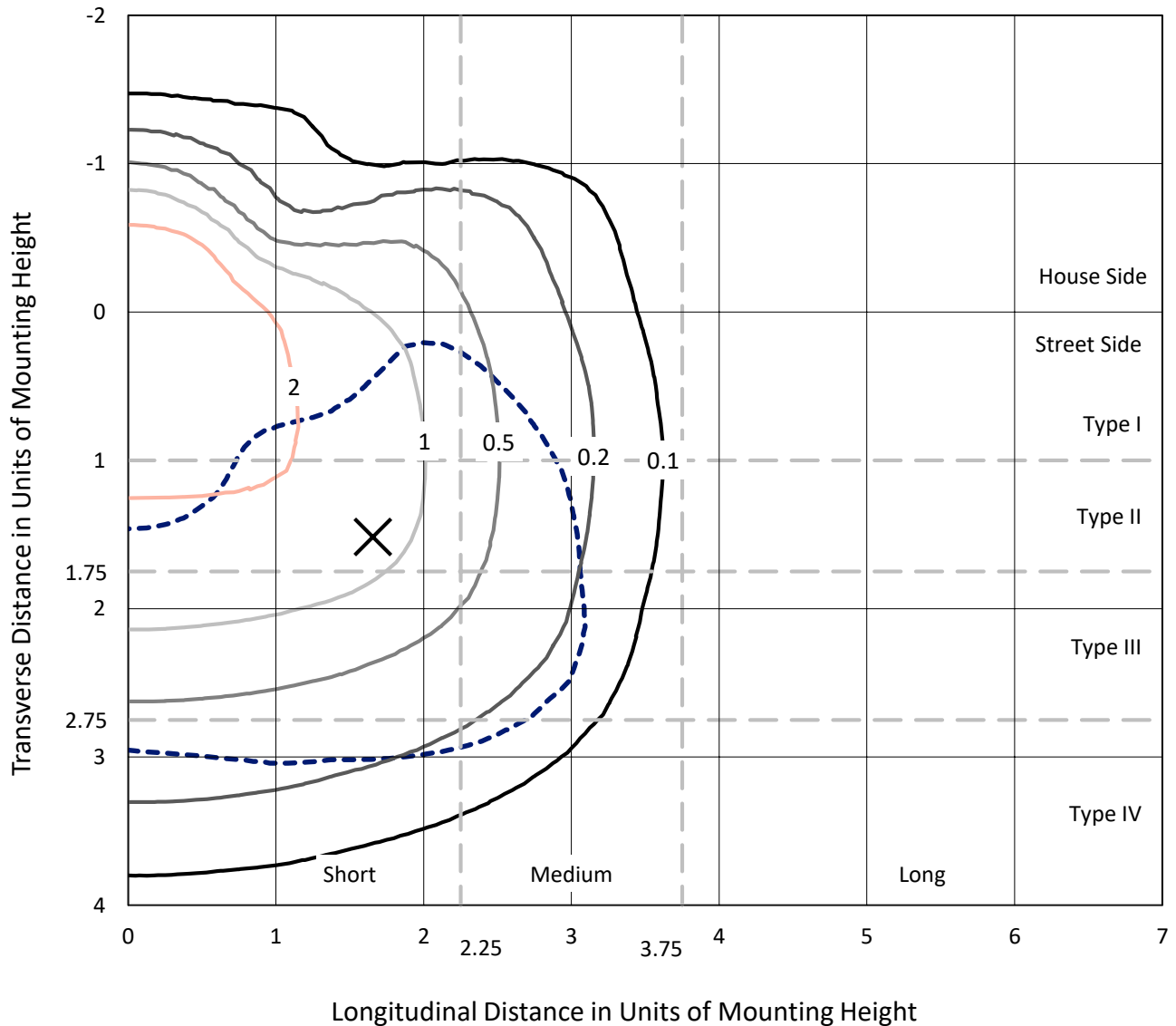
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

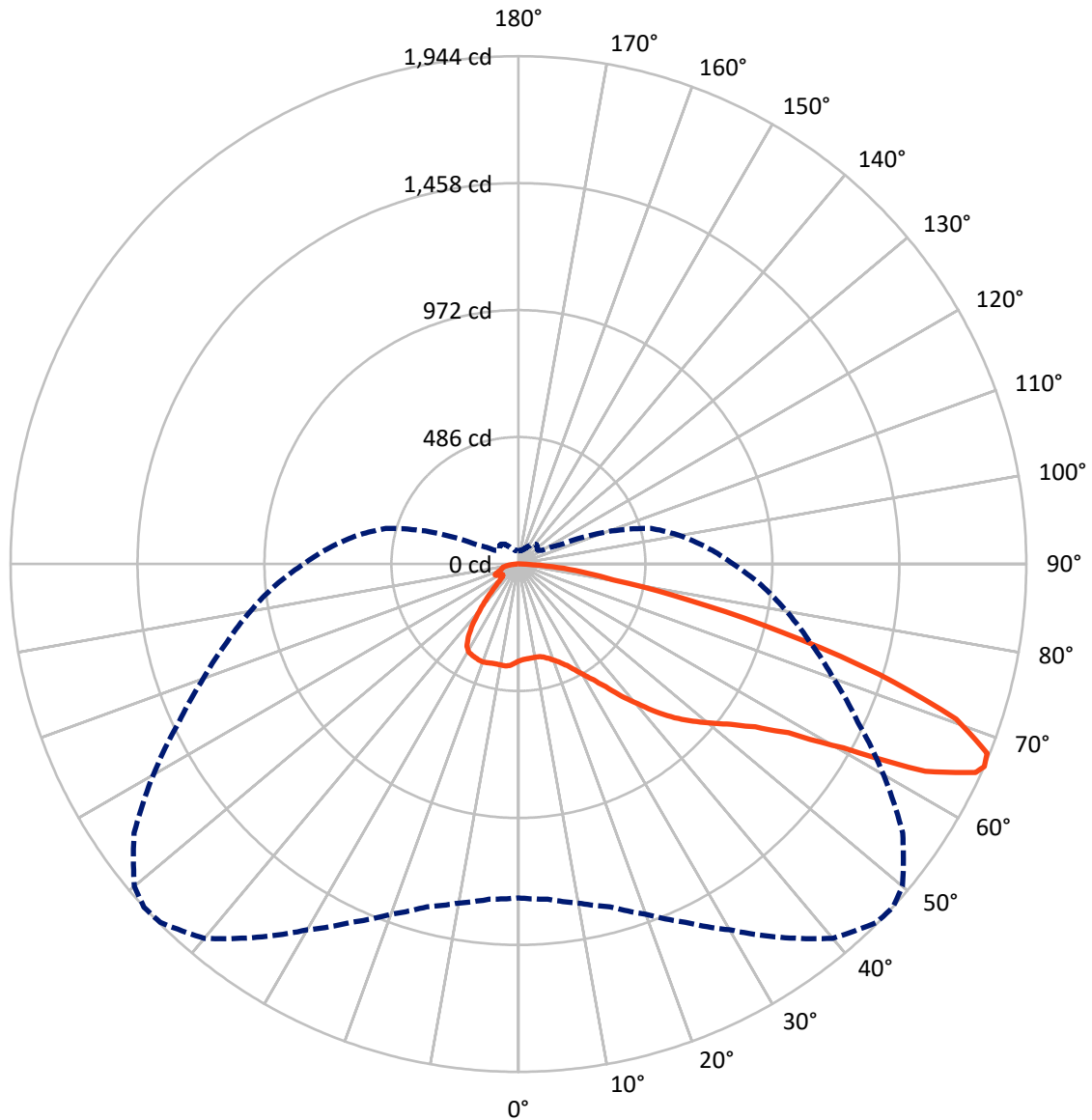
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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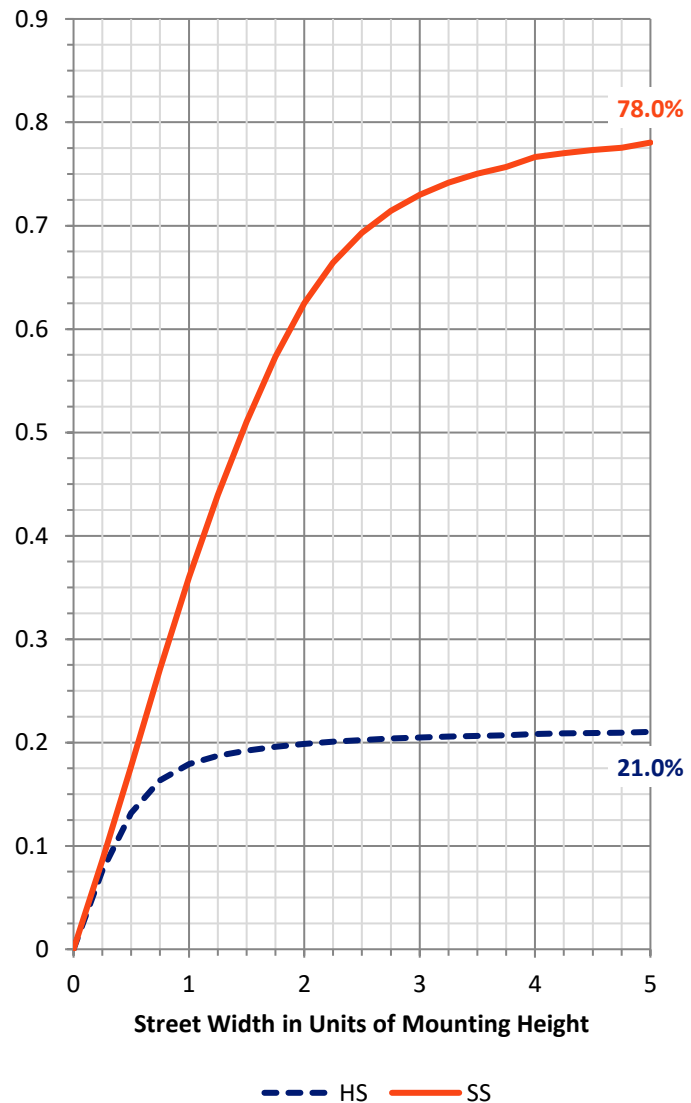
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.9	0.0	599.9
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	2211.4	0.0	2211.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	2811.2	0.0	2811.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.0	1.3
10°-20°	109.2	3.9
20°-30°	188.2	6.7
30°-40°	284.7	10.1
40°-50°	369.0	13.1
50°-60°	508.7	18.1
60°-70°	790.4	28.1
70°-80°	459.6	16.3
80°-90°	65.4	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°	2811.2	100.0
0°-180°	2811.2	100.0



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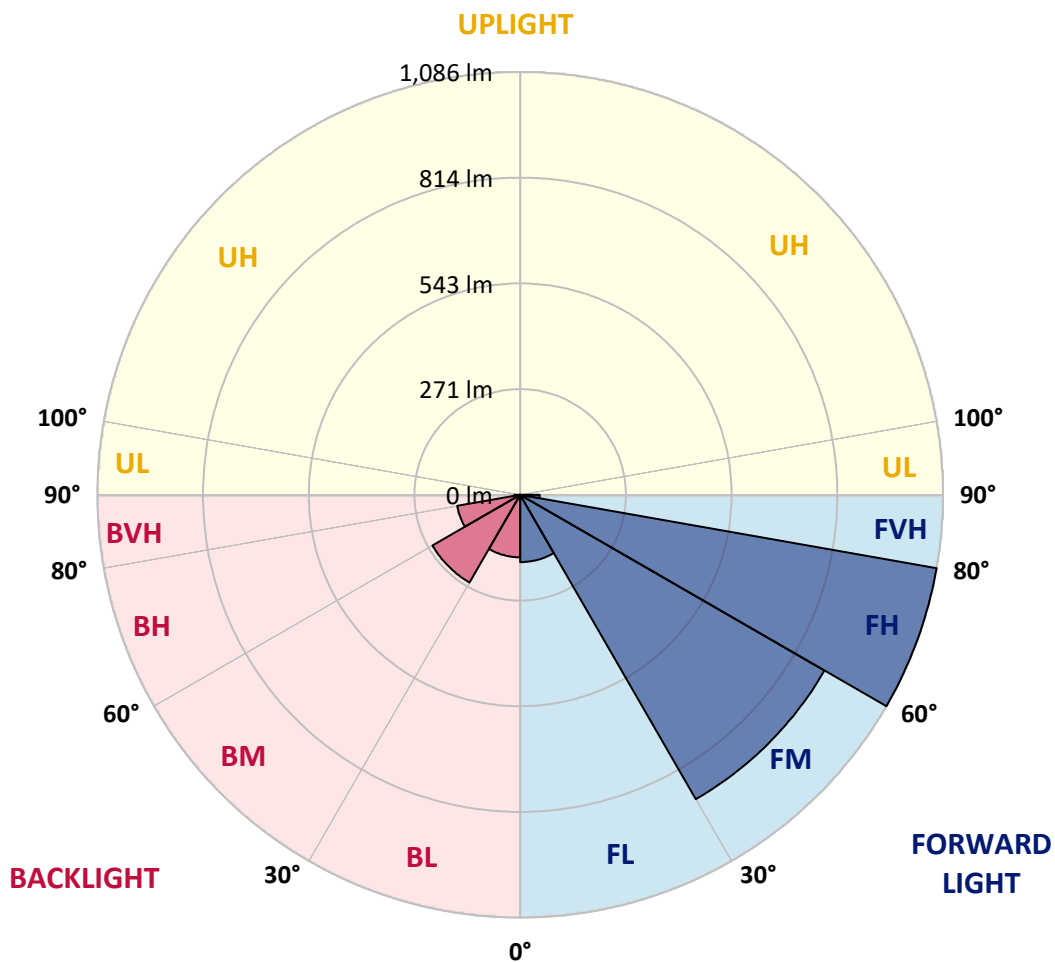
CATALOG NUMBER: ICM-E01-LED-E1-T4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.8	6.1			
FM	(30°-60°)	902.4	32.1			
FH	(60°-80°)	1086.0	38.6			G1/1800
FVH	(80°-90°)	50.2	1.8			G1/100
BL	(0°-30°)	160.6	5.7	B1/500		
BM	(30°-60°)	260.0	9.2	B1/1000		
BH	(60°-80°)	164.1	5.8	B1/500		G1/500
BVH	(80°-90°)	15.2	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	363.7	364.9	364.0	364.4	364.4	364.7	364.7	364.9	364.7	365.6	366.2
5°	357.2	357.9	357.5	358.1	358.8	360.0	359.7	361.2	361.6	362.5	364.0
7.5°	354.7	354.1	354.4	355.4	356.0	356.6	357.2	358.4	359.4	361.6	362.8
10°	357.2	356.9	357.2	357.9	357.9	358.1	357.5	358.8	359.4	361.2	362.5
12.5°	367.4	367.4	366.8	366.8	366.2	365.6	364.0	363.1	362.8	363.1	363.7
15°	383.9	383.3	382.0	381.1	379.8	377.7	375.5	373.7	372.4	370.5	370.0
17.5°	400.0	399.1	397.9	396.6	395.1	392.8	389.5	387.3	383.9	381.7	380.5
20°	418.6	416.7	415.2	413.7	410.5	410.0	406.5	402.8	398.8	393.8	393.2
22.5°	442.8	439.7	437.9	436.9	433.8	432.8	427.3	422.0	417.0	410.5	409.0
25°	467.3	464.2	463.3	462.0	459.8	458.6	453.3	447.4	440.9	431.9	430.0
27.5°	491.2	491.4	489.0	490.0	489.3	487.2	481.9	476.0	471.0	460.5	458.3
30°	520.9	519.1	517.9	519.7	517.5	517.9	513.2	510.0	502.0	495.8	491.4
32.5°	551.9	551.6	553.5	554.7	554.4	553.8	550.0	547.0	539.8	530.9	529.0
35°	594.4	596.3	597.9	603.4	603.4	607.4	603.7	600.0	591.6	580.7	577.0
37.5°	623.3	623.9	630.1	637.5	646.8	655.5	658.0	658.9	655.5	647.4	641.9
40°	649.6	650.9	660.7	672.3	685.9	703.0	713.2	717.9	718.8	715.1	703.0
42.5°	676.0	677.9	688.1	704.8	723.7	745.4	763.4	774.9	781.4	781.4	774.2
45°	706.7	709.1	720.3	738.6	760.7	787.9	812.7	834.7	845.3	845.9	839.1
47.5°	743.0	745.1	758.1	776.7	799.4	827.0	858.3	883.4	903.0	904.2	898.6
50°	789.8	792.8	803.7	820.5	843.7	871.6	903.0	938.0	958.4	963.4	957.5
52.5°	851.8	852.4	861.4	876.9	899.5	926.2	959.4	997.5	1024.5	1028.6	1018.9
55°	937.4	936.5	942.3	959.1	976.1	996.9	1031.4	1074.1	1104.2	1110.4	1100.5
57.5°	1053.7	1052.8	1057.7	1061.7	1093.7	1113.8	1147.6	1188.6	1217.7	1235.6	1218.6
60°	1233.8	1232.8	1240.9	1264.5	1288.4	1317.9	1350.7	1399.7	1440.7	1445.9	1429.1
62.5°	1364.4	1369.0	1386.7	1414.2	1462.6	1520.3	1580.5	1644.9	1729.0	1755.6	1747.6
65°	1318.8	1328.1	1352.6	1394.4	1458.9	1538.6	1632.8	1749.8	1862.3	1925.3	1923.5
66°	1277.9	1288.1	1318.1	1358.4	1426.7	1513.8	1616.8	1744.2	1870.1	1939.5	1943.9
67.5°	1203.4	1214.9	1244.4	1292.1	1358.4	1451.2	1561.9	1700.5	1842.8	1923.7	1935.2
70°	1058.6	1071.6	1093.0	1132.4	1197.9	1280.7	1397.2	1521.2	1670.4	1763.1	1777.0
72.5°	884.9	896.5	920.3	952.6	1006.2	1058.3	1149.8	1241.2	1347.9	1453.7	1443.5
75°	635.4	640.3	654.6	689.6	718.4	765.3	838.8	913.8	986.7	1035.1	1041.9
77.5°	330.2	343.3	363.4	402.1	433.5	475.6	523.4	579.8	633.2	677.5	665.4
80°	216.1	221.7	239.7	259.5	282.5	309.5	341.4	362.5	369.3	366.5	369.3
82.5°	124.7	134.9	158.8	174.0	191.0	200.3	225.8	250.0	263.5	246.5	240.3
85°	15.8	20.5	64.5	81.2	93.0	107.0	114.7	129.3	120.7	107.9	131.4
87.5°	3.4	3.1	4.4	9.3	9.6	8.1	15.2	16.1	10.0	4.9	6.2
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	366.8	367.2	367.7	368.7	369.3	370.0	370.5	371.4	372.1	372.7	374.0
5°	365.3	366.5	367.7	369.0	370.5	373.0	374.6	375.8	377.0	379.5	380.5
7.5°	364.4	366.5	368.4	370.5	373.0	375.2	378.0	379.5	381.4	383.0	384.8
10°	363.7	366.8	368.7	371.8	374.6	376.7	379.8	381.7	383.9	385.8	386.7
12.5°	364.9	366.5	368.4	371.4	374.9	378.0	381.4	383.0	384.8	386.3	386.7
15°	370.2	370.2	370.5	373.0	376.5	378.9	381.7	383.3	384.2	385.1	385.1
17.5°	379.8	377.7	376.1	376.5	378.6	380.2	381.7	381.7	381.1	380.7	380.2
20°	391.0	388.2	385.1	383.0	382.3	381.1	380.2	377.0	374.6	372.4	370.9
22.5°	407.2	402.8	398.4	394.4	390.7	386.0	380.7	374.6	368.7	364.7	362.1
25°	427.0	423.5	418.3	412.1	407.4	398.8	391.9	383.0	375.5	370.2	365.9
27.5°	455.2	451.2	446.2	440.7	433.8	424.2	415.8	405.3	396.3	388.6	383.0
30°	490.2	484.9	481.2	474.4	469.8	458.9	450.5	437.5	420.2	407.7	400.0
32.5°	526.2	520.3	517.2	511.9	506.7	500.2	487.4	467.3	444.9	424.8	411.4
35°	574.2	568.1	562.5	557.9	550.0	538.0	526.8	502.6	471.9	443.7	421.4
37.5°	634.7	624.5	610.5	598.8	585.1	567.7	550.7	525.9	490.9	454.2	424.5
40°	699.3	681.2	661.4	639.4	615.8	590.7	571.2	546.0	506.7	463.3	422.3
42.5°	766.5	738.0	710.4	679.4	646.5	616.7	591.4	563.7	518.4	465.8	413.7
45°	833.2	801.2	759.4	718.8	677.2	640.3	611.8	580.7	529.3	466.7	402.1
47.5°	888.4	855.5	807.7	756.9	707.6	665.8	632.3	598.8	543.9	473.2	399.4
50°	946.7	906.7	853.7	793.5	737.7	690.9	655.2	620.5	564.4	490.0	408.4
52.5°	1010.2	964.4	902.3	835.1	774.0	721.6	682.8	647.2	590.4	513.5	425.4
55°	1087.7	1031.6	964.4	888.4	823.0	764.9	722.1	680.0	621.4	541.4	446.8
57.5°	1206.2	1137.4	1061.7	975.2	902.6	834.1	783.0	734.2	669.5	583.0	476.0
60°	1420.5	1347.0	1248.7	1143.9	1058.6	978.6	903.5	843.1	763.4	664.8	540.5
62.5°	1727.5	1629.8	1498.6	1351.9	1240.3	1124.9	1040.3	950.4	851.4	745.1	616.5
65°	1898.0	1779.5	1604.0	1433.8	1290.2	1164.9	1057.4	953.2	843.4	741.7	634.1
66°	1919.1	1795.6	1613.3	1434.1	1283.4	1154.7	1041.6	933.7	821.4	724.4	626.7
67.5°	1910.4	1784.2	1596.3	1407.2	1254.0	1115.6	998.8	886.8	774.9	684.4	601.9
70°	1768.1	1648.4	1463.9	1280.7	1135.2	998.8	887.2	777.0	674.4	596.9	536.1
72.5°	1468.2	1365.9	1205.6	1061.7	947.6	835.1	740.5	635.4	548.6	491.2	455.2
75°	1059.8	997.9	851.8	769.3	669.1	594.4	502.6	440.3	378.0	350.0	343.9
77.5°	669.5	586.1	493.3	406.2	334.0	276.9	215.5	183.0	152.6	149.5	180.5
80°	338.9	305.1	235.1	187.3	157.5	127.4	100.7	76.3	53.3	64.2	76.9
82.5°	222.0	185.1	145.1	119.3	103.9	86.2	67.0	46.5	34.1	38.4	52.7
85°	120.0	102.3	82.5	65.1	52.7	47.2	31.6	22.3	22.0	23.5	30.0
87.5°	8.7	8.7	6.8	6.2	7.4	6.2	5.6	5.6	5.3	5.6	7.4
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	374.6	375.5	375.8	377.4	378.3	378.9	379.5	379.5	379.8	380.7	381.1
5°	381.7	383.3	385.1	386.3	387.0	388.8	389.5	389.5	390.0	391.4	392.3
7.5°	386.0	388.2	390.0	390.7	391.9	392.6	393.5	394.1	394.1	395.4	396.0
10°	387.6	388.8	390.7	390.7	391.9	391.9	392.8	393.2	393.2	394.4	395.4
12.5°	387.6	388.2	389.8	389.8	390.7	391.0	392.3	393.2	393.5	395.1	396.3
15°	385.8	386.3	387.6	387.9	390.0	391.4	394.1	396.0	396.0	397.5	398.1
17.5°	380.5	382.0	384.5	387.0	391.0	393.8	397.2	398.8	397.5	396.6	395.6
20°	371.8	374.6	380.5	386.7	393.8	397.5	399.4	397.9	393.5	389.1	386.3
22.5°	363.1	368.7	378.6	387.9	396.0	398.4	397.5	391.9	384.8	379.5	375.8
25°	367.2	373.7	383.3	391.6	396.9	396.3	392.6	384.8	377.0	370.2	364.0
27.5°	383.9	391.0	396.3	399.1	398.4	394.1	388.2	379.5	370.2	361.2	352.6
30°	399.7	403.4	404.7	402.5	397.5	390.4	383.0	373.0	360.7	349.5	339.5
32.5°	406.8	403.1	397.2	391.4	383.3	377.0	366.8	356.0	340.5	327.2	317.2
35°	406.8	391.9	377.0	364.7	352.6	344.8	333.0	318.4	304.2	293.0	285.3
37.5°	397.9	369.3	344.8	324.7	309.5	301.1	283.4	270.4	258.3	254.6	249.6
40°	381.4	339.3	303.9	277.5	258.3	245.9	228.2	219.3	214.6	212.7	211.8
42.5°	359.4	305.8	258.6	226.0	205.3	191.4	179.5	174.0	173.7	173.3	173.3
45°	335.8	269.8	214.6	175.8	157.5	145.1	139.5	137.4	139.3	138.9	139.3
47.5°	321.2	242.5	174.2	133.0	119.1	111.0	108.2	109.1	110.7	110.0	110.0
50°	319.4	228.6	147.3	103.5	93.0	89.0	88.4	88.4	89.3	88.7	88.4
52.5°	326.2	226.3	133.3	89.0	80.7	77.2	76.6	76.3	76.0	74.1	72.6
55°	338.0	231.4	129.3	85.3	76.6	72.8	71.9	71.3	70.0	67.6	64.8
57.5°	361.6	246.8	133.0	87.2	77.9	74.7	73.8	73.8	71.3	67.3	63.3
60°	418.3	286.2	148.2	94.2	83.7	80.7	81.2	80.9	77.2	71.3	65.1
62.5°	491.4	337.7	168.1	104.2	91.2	90.5	93.7	93.0	86.8	77.9	68.8
65°	525.3	361.9	173.7	106.3	92.7	95.5	101.7	101.1	93.3	80.9	69.5
66°	525.9	361.9	171.2	104.5	90.5	94.0	100.2	99.8	92.1	79.7	68.2
67.5°	513.2	351.9	164.0	100.7	86.2	88.7	94.2	94.0	86.8	76.6	65.8
70°	465.4	315.1	145.8	94.2	80.3	79.1	80.9	79.7	75.1	67.9	60.5
72.5°	398.8	264.5	127.2	89.3	76.3	71.3	70.0	69.1	65.4	61.4	56.7
75°	314.1	209.3	111.6	85.6	72.6	66.0	63.9	62.6	60.2	57.4	53.7
77.5°	193.8	149.8	97.4	80.7	69.8	63.3	61.7	59.8	56.1	52.7	50.0
80°	86.5	92.7	80.0	70.4	62.3	56.5	54.0	51.2	47.4	45.3	43.7
82.5°	57.7	59.8	58.0	52.7	47.2	42.5	38.8	38.8	38.1	36.3	35.6
85°	36.9	37.2	36.0	32.6	30.4	27.6	26.0	26.3	27.6	27.3	27.0
87.5°	8.4	8.4	10.0	9.3	10.9	11.4	12.4	13.3	15.2	15.2	16.1
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: P181619

CATALOG NUMBER: ICM-E01-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	370.5	370.5	370.5	370.5	370.5
2.5°	381.4	382.0	382.6	381.7	382.0
5°	392.3	391.9	393.5	392.6	393.2
7.5°	395.6	396.0	397.2	397.2	397.5
10°	396.0	396.6	398.1	399.1	399.7
12.5°	397.5	398.8	401.2	401.9	401.9
15°	398.8	399.4	400.9	401.6	402.1
17.5°	394.4	393.2	393.8	394.1	393.8
20°	383.5	382.3	382.0	380.7	381.4
22.5°	371.8	368.4	366.2	363.7	363.7
25°	357.5	352.3	347.9	343.5	344.5
27.5°	344.2	337.4	333.0	330.2	329.6
30°	331.2	324.0	320.0	316.6	316.6
32.5°	309.5	304.5	299.3	297.0	296.7
35°	279.4	276.3	271.9	271.0	269.5
37.5°	245.6	244.7	240.9	240.7	239.1
40°	210.2	210.9	209.6	209.0	208.1
42.5°	174.9	178.0	177.4	177.0	176.5
45°	141.1	143.3	143.5	144.5	146.0
47.5°	111.0	111.6	112.3	111.9	112.3
50°	86.8	85.3	84.9	84.0	84.9
52.5°	70.0	67.6	66.3	65.1	64.5
55°	61.7	59.3	58.0	57.4	56.7
57.5°	59.5	57.0	55.2	54.0	53.7
60°	60.2	56.5	54.0	52.4	52.1
62.5°	61.7	56.7	53.3	51.8	51.4
65°	61.4	56.1	53.0	51.2	50.9
66°	60.5	55.5	52.4	50.9	50.5
67.5°	58.9	54.6	51.8	50.5	50.0
70°	56.1	53.3	51.2	49.6	49.0
72.5°	53.7	51.4	49.6	48.1	47.7
75°	50.9	49.0	47.2	45.9	45.6
77.5°	47.4	45.6	44.4	43.4	43.1
80°	41.9	40.7	39.3	38.1	38.1
82.5°	34.7	33.8	32.6	31.6	31.3
85°	26.7	26.7	25.8	24.8	24.5
87.5°	15.8	15.5	15.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

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