

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: STREETWORKS

Report Number: P141493

Luminaire Tested: **CEM-F04-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141493
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F04-LED-E-U-SLL-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7289.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

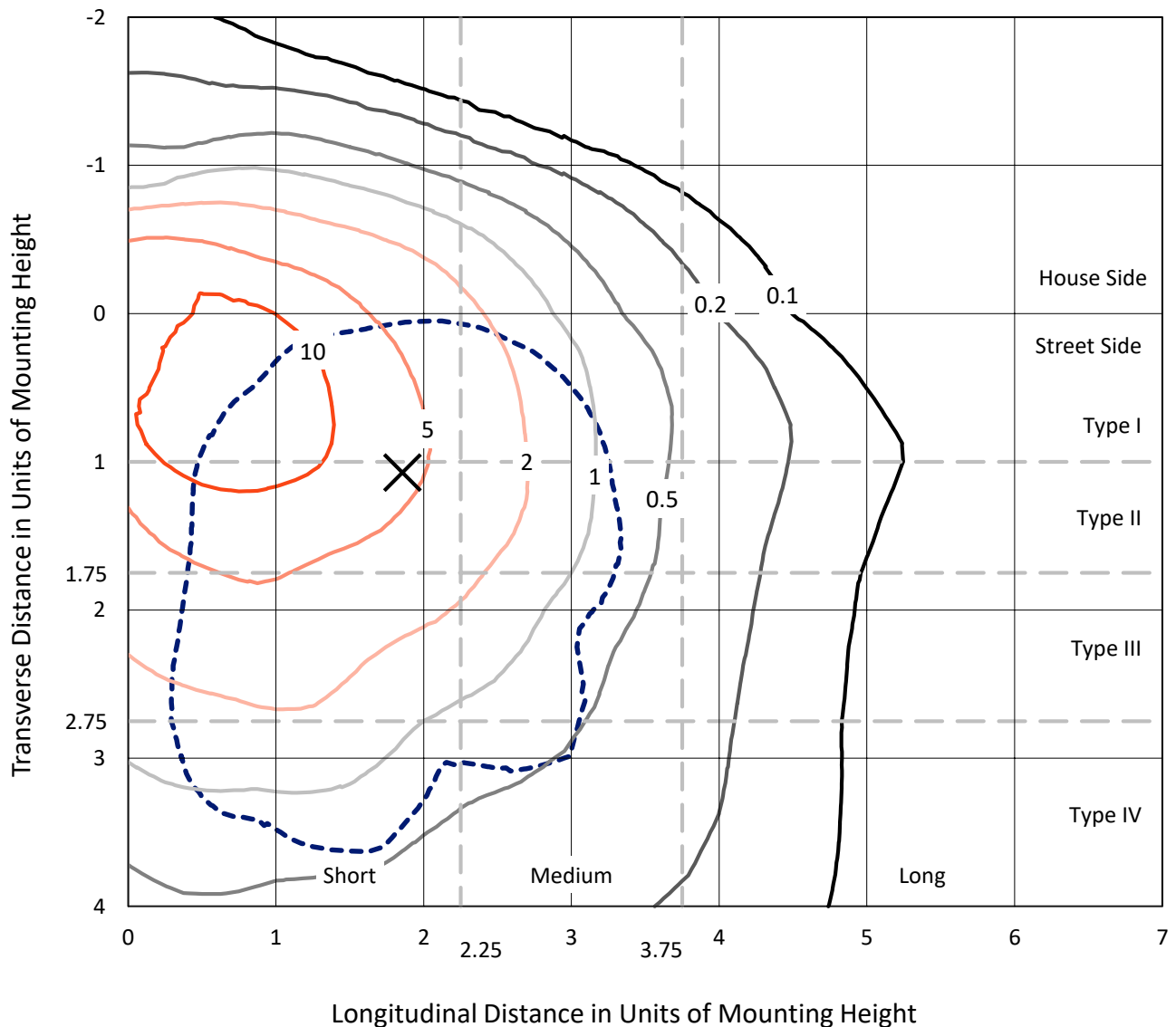
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P141493
 CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

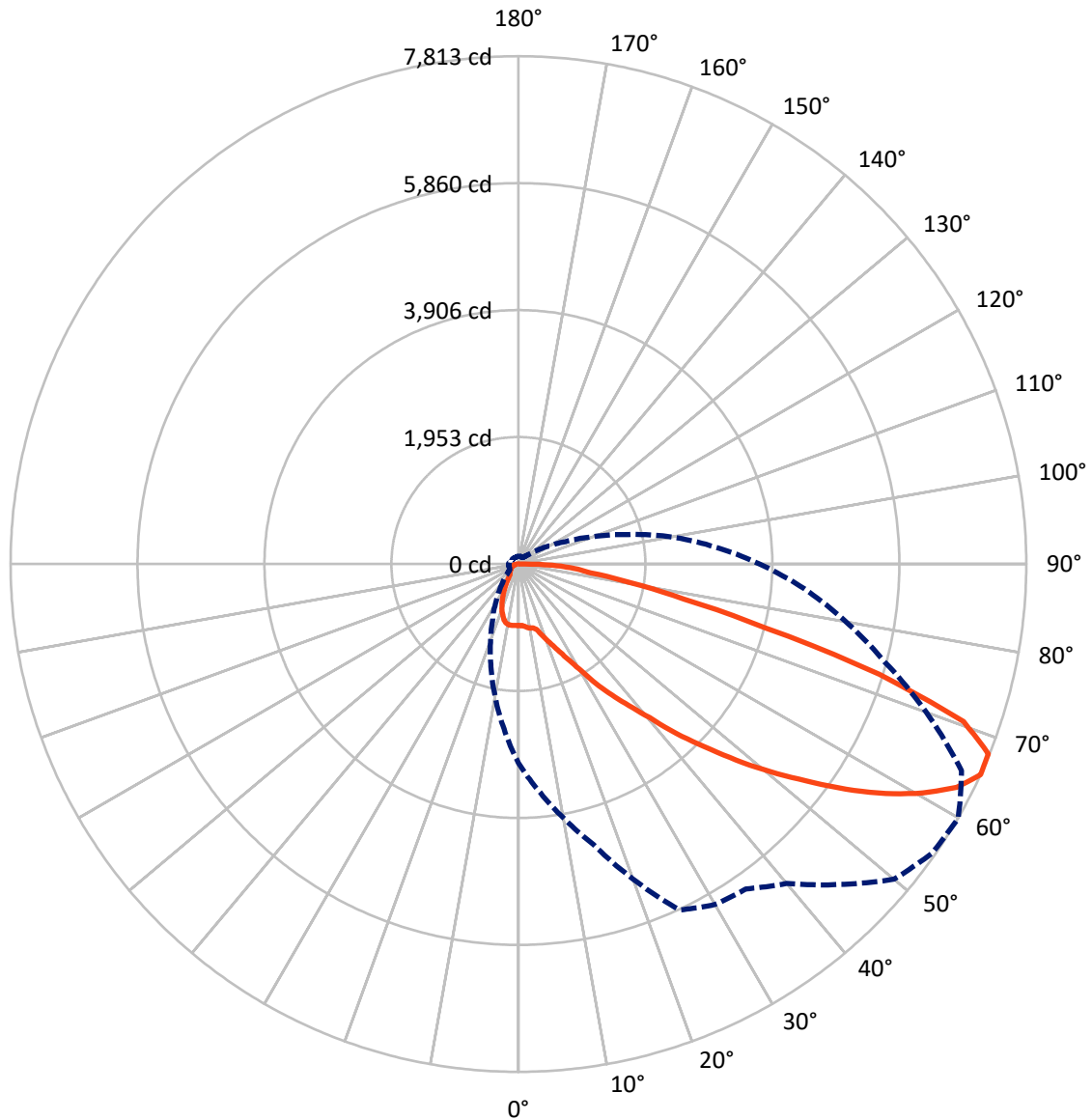
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P141493
CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1352.0	0.0	1352.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5937.3	0.0	5937.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	7289.3	0.0	7289.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.3
10°-20°	275.3	3.8
20°-30°	457.4	6.3
30°-40°	668.7	9.2
40°-50°	1017.2	14.0
50°-60°	1462.2	20.1
60°-70°	1797.7	24.7
70°-80°	1202.6	16.5
80°-90°	316.4	4.3
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°	7289.3	100.0
0°-180°	7289.3	100.0



REPORT NUMBER: P141493

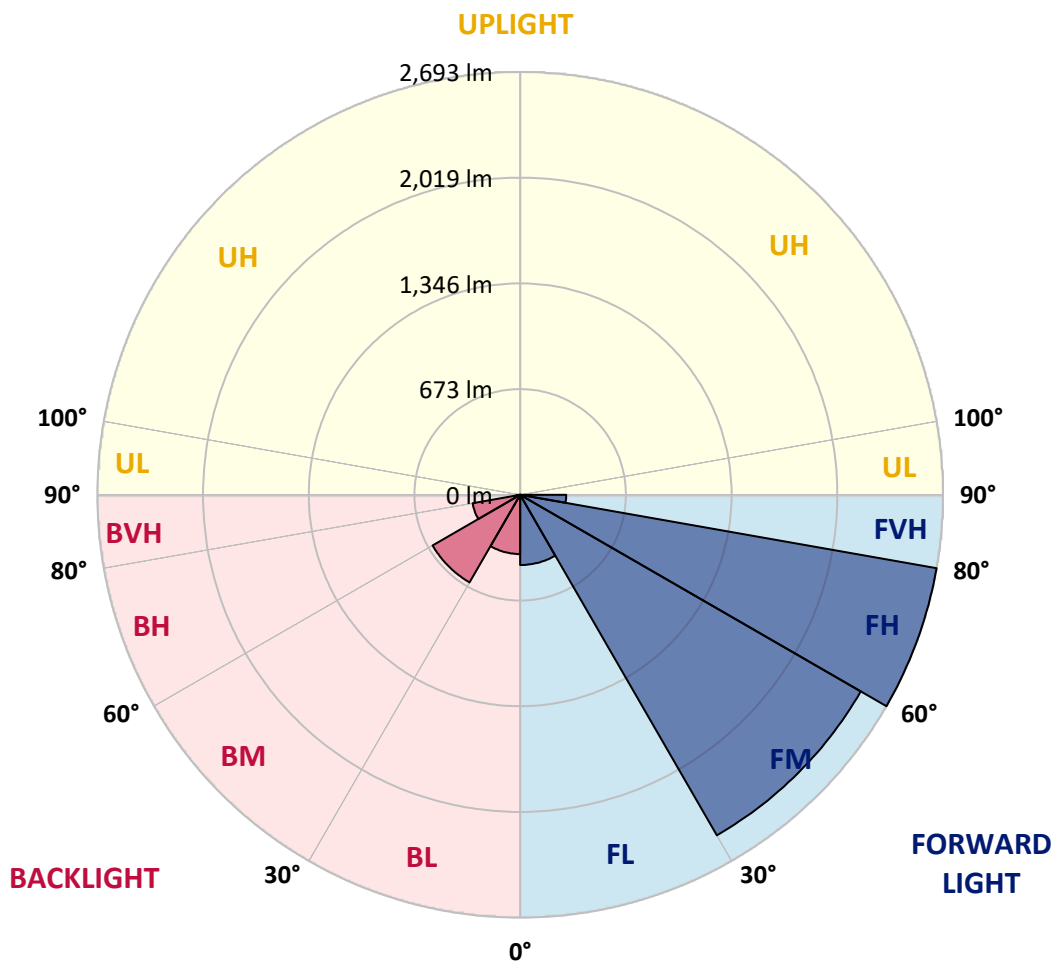
CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	447.1	6.1			
FM	(30°-60°)	2504.1	34.4			
FH	(60°-80°)	2692.7	36.9			G2/5000
FVH	(80°-90°)	293.4	4.0			G3/500
BL	(0°-30°)	377.3	5.2	B1/500		
BM	(30°-60°)	644.0	8.8	B1/1000		
BH	(60°-80°)	307.7	4.2	B1/500		G1/500
BVH	(80°-90°)	23.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	948.5	949.4	949.4	948.5	947.6	948.5	946.6	948.5	947.6	946.6	947.6
5°	936.4	937.3	939.2	939.2	941.1	944.8	945.7	950.3	953.1	954.1	957.8
7.5°	907.6	912.3	915.0	918.8	924.3	933.6	940.1	951.3	959.6	967.1	977.3
10°	890.0	895.5	901.1	909.5	917.8	929.9	941.1	955.0	966.1	977.3	989.4
12.5°	894.6	901.1	908.5	915.0	928.1	939.2	953.1	969.9	975.4	986.6	996.8
15°	932.7	938.3	943.8	951.3	963.4	976.4	994.9	1013.5	1017.2	1029.3	1040.5
17.5°	983.8	984.7	994.0	1007.0	1018.2	1039.5	1061.8	1086.9	1102.7	1110.1	1116.6
20°	1036.7	1039.5	1054.4	1066.5	1091.6	1119.4	1151.9	1189.1	1202.1	1234.6	1246.7
22.5°	1115.7	1114.8	1132.4	1149.1	1177.0	1206.7	1254.1	1305.2	1334.9	1360.0	1369.3
25°	1235.5	1238.3	1235.5	1259.7	1288.5	1336.8	1384.2	1435.3	1452.9	1496.6	1517.0
27.5°	1354.5	1375.8	1404.6	1412.1	1447.4	1503.1	1540.3	1595.1	1637.8	1649.9	1683.3
30°	1465.0	1509.6	1557.0	1596.9	1660.1	1727.9	1783.6	1845.9	1848.7	1871.0	1880.3
32.5°	1577.4	1647.1	1716.8	1767.9	1829.2	1919.3	2022.4	2123.6	2189.6	2257.4	2223.1
35°	1718.6	1827.3	1924.8	2003.8	2055.8	2139.4	2258.4	2422.8	2528.7	2609.5	2656.0
37.5°	1847.7	2012.2	2161.7	2274.1	2401.4	2460.9	2538.9	2657.8	2779.5	2854.8	2893.8
40°	1942.5	2167.3	2379.1	2541.7	2703.3	2845.5	2943.9	3040.6	3205.0	3298.8	3306.2
42.5°	2016.8	2302.9	2558.4	2791.6	3029.4	3228.2	3347.1	3469.7	3678.8	3787.5	3779.1
45°	2067.9	2404.2	2721.0	3008.0	3296.0	3555.2	3784.7	3966.7	4180.4	4387.6	4345.8
47.5°	2112.5	2487.8	2850.1	3174.3	3519.9	3843.2	4129.3	4385.7	4668.1	4947.8	4964.5
50°	2157.1	2555.6	2967.2	3340.6	3729.9	4135.8	4481.4	4811.2	5164.2	5520.0	5601.8
52.5°	2218.4	2631.8	3075.9	3492.0	3944.5	4372.7	4758.2	5168.8	5605.5	5949.2	6181.4
55°	2310.4	2737.7	3210.6	3643.5	4136.8	4608.7	5035.1	5508.9	5910.2	6334.7	6665.4
57.5°	2460.9	2878.9	3366.6	3808.8	4322.5	4822.3	5265.5	5762.5	6145.2	6616.2	7031.5
60°	2651.3	3071.2	3543.1	4004.8	4540.9	5122.4	5569.2	5937.1	6320.8	6797.4	7297.1
62.5°	2867.8	3288.6	3758.7	4235.2	4844.6	5474.5	5858.2	6068.1	6402.5	6921.8	7469.0
65°	3058.2	3492.0	3961.2	4466.5	5155.8	5872.1	6048.6	6101.5	6414.6	6972.0	7543.3
67.5°	3214.3	3713.1	4150.7	4654.2	5483.8	6124.8	6052.3	5946.4	6250.2	6850.3	7401.2
70°	3296.0	3811.6	4240.8	4670.9	5553.4	6160.1	5906.5	5618.5	5756.9	6344.0	6804.8
72.5°	3205.9	3734.5	4073.6	4341.1	5136.3	5725.3	5402.0	4858.6	4984.9	5553.4	5672.4
75°	2852.9	3491.1	3689.0	3679.7	4108.0	4412.7	4178.6	3832.0	4154.4	4391.3	4269.6
77.5°	2130.2	2859.4	2970.0	2766.5	2857.5	3113.9	2892.8	3162.3	3553.4	3660.2	3429.8
80°	1339.6	2095.8	2107.9	1854.2	1805.9	1906.3	2191.5	2764.6	3138.1	3115.8	2811.1
82.5°	746.0	1359.1	1488.2	1256.0	1196.5	1442.7	1951.8	2256.5	2207.3	2188.7	1792.0
85°	510.0	928.1	1134.3	1087.8	1203.0	1439.0	1600.6	1430.6	1377.7	1173.3	952.2
87.5°	207.2	418.0	703.2	808.2	857.4	1052.5	921.5	750.6	577.8	548.1	471.0
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: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	944.8	946.6	946.6	947.6	948.5	949.4	949.4	949.4	950.3	951.3	950.3
5°	958.7	961.5	963.4	963.4	965.2	967.1	968.9	968.0	970.8	972.6	973.6
7.5°	981.0	986.6	991.2	994.9	996.8	996.8	996.8	994.0	996.8	997.7	998.7
10°	996.8	1003.3	1004.2	1007.9	1007.0	1006.1	1004.2	1002.4	1003.3	1005.2	1007.9
12.5°	1001.4	1007.9	1009.8	1012.6	1011.7	1010.7	1007.0	1007.0	1006.1	1008.9	1011.7
15°	1039.5	1045.1	1054.4	1046.0	1047.0	1039.5	1033.0	1029.3	1027.5	1029.3	1031.2
17.5°	1126.9	1136.1	1132.4	1119.4	1118.5	1102.7	1099.9	1081.3	1081.3	1081.3	1075.8
20°	1246.7	1245.8	1239.3	1226.3	1198.4	1192.8	1172.4	1157.5	1143.6	1140.8	1134.3
22.5°	1377.7	1363.7	1360.0	1333.1	1315.4	1282.0	1251.3	1240.2	1227.2	1224.4	1223.5
25°	1504.9	1510.5	1483.6	1470.6	1426.0	1396.3	1378.6	1350.7	1350.7	1347.0	1342.4
27.5°	1664.7	1683.3	1653.6	1635.0	1593.2	1551.4	1520.7	1504.0	1486.4	1474.3	1440.8
30°	1890.5	1902.6	1882.1	1844.0	1792.0	1717.7	1675.9	1657.3	1624.8	1583.9	1529.1
32.5°	2208.2	2191.5	2121.8	2054.9	1987.1	1916.5	1866.3	1832.9	1782.7	1701.0	1596.9
35°	2619.7	2475.7	2388.4	2296.4	2218.4	2139.4	2101.4	2041.0	1926.7	1793.9	1654.5
37.5°	2822.2	2758.1	2657.8	2589.1	2496.2	2417.2	2330.8	2227.7	2080.0	1889.5	1696.3
40°	3228.2	3107.4	3029.4	2951.4	2837.1	2729.3	2612.3	2446.0	2208.2	1971.3	1728.8
42.5°	3654.6	3565.4	3424.2	3320.2	3234.7	3056.3	2870.6	2638.3	2339.2	2045.6	1758.6
45°	4210.1	4005.8	3831.1	3742.9	3574.7	3357.3	3140.9	2809.2	2459.9	2123.6	1792.0
47.5°	4768.5	4505.6	4325.3	4160.9	3981.6	3689.9	3352.7	2957.9	2552.8	2188.7	1819.9
50°	5367.7	5021.1	4813.0	4616.1	4320.7	3967.7	3538.5	3080.5	2649.5	2250.0	1845.0
52.5°	5977.1	5539.5	5242.2	5012.8	4646.8	4210.1	3706.6	3207.8	2752.6	2309.4	1865.4
55°	6525.2	6114.6	5730.9	5376.9	4936.6	4429.4	3860.8	3322.0	2845.5	2371.7	1878.4
57.5°	7022.2	6664.5	6206.5	5731.8	5203.2	4632.8	4003.0	3445.6	2932.8	2417.2	1877.5
60°	7363.1	7154.1	6678.4	6099.7	5481.9	4819.6	4173.9	3583.1	3009.9	2449.7	1870.0
62.5°	7608.4	7566.5	7151.3	6453.6	5709.5	4987.7	4339.3	3697.3	3065.6	2453.4	1838.5
65°	7761.6	7812.7	7521.0	6678.4	5836.8	5115.9	4421.0	3707.6	3025.7	2392.1	1754.8
67.5°	7665.0	7796.9	7519.2	6580.9	5715.1	4996.1	4301.2	3536.6	2813.0	2201.7	1567.2
70°	7065.8	7263.7	6989.7	5934.3	5119.6	4533.4	3859.9	3037.8	2420.0	1813.4	1238.3
72.5°	5542.3	5803.3	5563.7	4840.0	4238.0	3747.5	3247.7	2385.6	1845.0	1332.2	832.4
75°	3823.7	3924.0	3781.0	3281.2	3096.3	2904.9	2437.6	1603.4	1218.8	822.1	489.6
77.5°	2966.2	2603.0	2329.0	2124.6	2120.9	2085.6	1595.1	959.6	729.2	452.4	272.2
80°	2230.5	1751.1	1445.5	1264.3	1314.5	1469.6	929.9	492.4	377.2	249.9	167.2
82.5°	1467.8	1117.6	891.8	789.6	798.0	921.5	467.3	271.3	185.8	142.1	108.7
85°	894.6	868.6	774.8	703.2	648.4	633.6	363.2	208.1	103.1	73.4	55.7
87.5°	436.6	517.4	631.7	640.1	550.0	466.3	188.6	59.5	43.7	23.2	16.7
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: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	951.3	955.9	954.1	953.1	953.1	957.8	957.8	955.9	955.9	956.9	956.9
5°	973.6	978.2	976.4	977.3	979.1	980.1	982.9	980.1	978.2	980.1	979.1
7.5°	999.6	1004.2	1003.3	1005.2	1007.0	1008.9	1010.7	1009.8	1007.9	1007.9	1007.0
10°	1010.7	1020.0	1023.7	1027.5	1032.1	1034.0	1036.7	1036.7	1033.0	1033.0	1028.4
12.5°	1018.2	1025.6	1034.9	1040.5	1048.8	1055.3	1058.1	1059.0	1056.3	1052.5	1047.9
15°	1034.0	1039.5	1048.8	1054.4	1064.6	1073.0	1078.5	1077.6	1073.9	1063.7	1049.7
17.5°	1073.0	1072.0	1075.8	1079.5	1082.3	1086.9	1085.0	1076.7	1059.0	1040.5	1020.9
20°	1131.5	1130.6	1125.0	1116.6	1106.4	1093.4	1073.0	1047.9	1018.2	984.7	955.0
22.5°	1214.2	1205.8	1198.4	1176.1	1140.8	1097.1	1044.2	994.9	959.6	927.1	894.6
25°	1323.8	1303.4	1267.1	1215.1	1159.4	1094.3	1017.2	951.3	906.7	868.6	836.1
27.5°	1392.5	1345.2	1284.8	1213.2	1138.9	1055.3	969.9	904.8	854.7	812.9	775.7
30°	1451.1	1365.6	1281.1	1190.0	1096.2	1009.8	919.7	850.0	791.5	745.0	700.5
32.5°	1483.6	1369.3	1263.4	1154.7	1052.5	954.1	856.5	781.3	725.5	667.9	606.6
35°	1504.0	1358.2	1230.0	1107.3	994.9	892.8	790.6	707.9	634.5	563.9	502.6
37.5°	1509.6	1339.6	1186.3	1054.4	926.2	814.7	718.1	621.5	548.1	471.9	401.3
40°	1506.8	1304.3	1131.5	971.7	837.0	729.2	635.4	547.2	466.3	398.5	330.7
42.5°	1495.7	1264.3	1066.5	903.9	768.3	665.2	578.8	489.6	417.1	344.7	287.1
45°	1491.9	1225.3	1017.2	851.9	721.8	620.6	536.0	449.6	373.5	304.7	247.1
47.5°	1483.6	1190.0	971.7	811.9	683.7	586.2	498.9	414.3	335.4	273.1	217.4
50°	1465.0	1151.9	938.3	781.3	652.1	551.8	462.6	371.6	294.5	233.2	190.4
52.5°	1445.5	1127.8	916.9	750.6	618.7	510.9	422.7	330.7	258.3	200.7	168.1
55°	1426.0	1109.2	888.1	714.4	575.0	469.1	380.0	295.4	227.6	178.4	155.1
57.5°	1404.6	1084.1	852.8	667.9	525.8	422.7	333.5	253.6	197.9	160.7	144.9
60°	1387.0	1048.8	791.5	602.9	459.8	357.7	276.8	211.8	168.1	144.9	138.4
62.5°	1340.5	981.0	703.2	507.2	373.5	279.6	210.9	165.4	141.2	130.1	131.0
65°	1228.1	829.6	558.3	395.7	262.0	187.7	150.5	126.3	115.2	115.2	118.0
67.5°	1034.9	631.7	395.7	251.8	171.9	135.6	115.2	105.0	103.1	105.0	109.6
70°	733.0	409.7	248.0	164.4	129.1	109.6	99.4	95.7	93.8	95.7	97.5
72.5°	451.5	241.5	157.9	128.2	110.5	98.5	92.0	89.2	88.3	88.3	87.3
75°	246.2	161.6	126.3	111.5	100.3	91.0	84.5	79.9	79.0	79.9	78.0
77.5°	157.0	126.3	112.4	103.1	92.9	80.8	75.2	71.5	71.5	70.6	68.7
80°	122.6	112.4	103.1	93.8	78.0	68.7	63.2	62.2	61.3	60.4	60.4
82.5°	92.0	89.2	84.5	76.2	62.2	54.8	52.0	52.0	51.1	48.3	48.3
85°	53.0	52.0	55.7	49.2	41.8	36.2	36.2	37.2	38.1	37.2	34.4
87.5°	17.7	14.9	15.8	15.8	13.0	10.2	13.9	16.7	15.8	13.9	16.7
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: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	954.1	955.9	959.6	955.9	954.1	954.1	952.2	953.1	950.3	947.6	948.5
5°	977.3	975.4	977.3	974.5	968.9	968.0	964.3	964.3	960.6	956.9	955.0
7.5°	1003.3	1000.5	1001.4	995.9	989.4	984.7	980.1	978.2	973.6	968.0	964.3
10°	1023.7	1020.9	1019.1	1012.6	1004.2	999.6	993.1	989.4	984.7	977.3	973.6
12.5°	1036.7	1030.2	1026.5	1015.4	1007.9	1003.3	995.9	994.0	988.4	981.9	979.1
15°	1034.0	1019.1	1007.9	994.9	984.7	978.2	971.7	969.9	967.1	964.3	958.7
17.5°	988.4	969.9	957.8	930.8	916.0	909.5	908.5	907.6	905.8	905.8	899.3
20°	925.3	903.9	885.3	859.3	839.8	833.3	815.6	811.0	805.4	811.0	805.4
22.5°	868.6	841.7	820.3	798.9	775.7	757.1	733.9	722.7	707.0	703.2	705.1
25°	808.2	774.8	747.8	722.7	697.7	671.7	650.3	634.5	624.3	610.3	597.3
27.5°	734.8	707.0	670.7	650.3	620.6	591.8	569.5	552.7	534.2	523.0	504.4
30°	660.5	617.8	581.5	552.7	520.2	506.3	484.9	467.3	450.6	438.5	422.7
32.5°	563.9	519.3	481.2	447.8	425.5	406.0	393.0	378.1	369.7	359.5	349.3
35°	461.7	406.0	360.4	345.6	320.5	321.4	314.9	307.5	301.0	291.7	290.8
37.5°	348.4	304.7	275.0	256.4	252.7	247.1	248.0	247.1	245.3	242.5	242.5
40°	275.9	236.9	217.4	213.7	213.7	212.7	211.8	211.8	211.8	209.9	209.0
42.5°	236.0	208.1	201.6	199.7	197.9	196.9	195.1	192.3	192.3	190.4	187.7
45°	208.1	192.3	190.4	188.6	188.6	185.8	183.0	181.2	180.2	179.3	177.4
47.5°	190.4	182.1	180.2	178.4	177.4	175.6	172.8	170.0	169.1	168.1	168.1
50°	170.9	165.4	165.4	165.4	162.6	160.7	157.9	156.1	156.1	155.1	154.2
52.5°	157.0	154.2	153.3	152.4	150.5	147.7	145.8	144.9	144.0	144.9	144.0
55°	150.5	148.6	147.7	145.8	144.0	141.2	139.3	136.6	135.6	137.5	137.5
57.5°	143.1	142.1	141.2	139.3	137.5	133.8	131.0	129.1	129.1	131.9	131.0
60°	140.3	139.3	138.4	137.5	134.7	130.1	125.4	123.6	123.6	126.3	126.3
62.5°	133.8	132.8	131.9	131.0	127.3	123.6	118.9	117.1	118.0	119.8	122.6
65°	121.7	122.6	121.7	121.7	118.9	116.1	113.3	111.5	110.5	111.5	114.3
67.5°	110.5	111.5	111.5	111.5	110.5	107.8	105.9	103.1	101.3	102.2	103.1
70°	100.3	101.3	102.2	102.2	100.3	97.5	94.8	92.0	91.0	92.0	92.0
72.5°	89.2	89.2	89.2	90.1	89.2	88.3	84.5	80.8	80.8	79.9	80.8
75°	78.0	78.0	78.0	78.0	76.2	76.2	74.3	70.6	69.7	70.6	71.5
77.5°	68.7	66.9	66.0	66.0	66.0	64.1	63.2	63.2	62.2	62.2	62.2
80°	56.7	54.8	53.0	52.0	53.0	53.0	54.8	54.8	53.9	53.9	53.9
82.5°	44.6	40.9	39.9	39.9	38.1	39.9	43.7	48.3	46.4	47.4	47.4
85°	32.5	28.8	26.9	26.9	25.1	28.8	33.4	37.2	35.3	37.2	36.2
87.5°	14.9	13.9	11.1	9.3	11.1	16.7	19.5	20.4	17.7	21.4	21.4
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: P141493

CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6
2.5°	952.2	948.5	947.6	948.5	946.6	949.4	949.4	948.5	948.5	947.6	949.4
5°	957.8	953.1	950.3	950.3	948.5	951.3	949.4	948.5	947.6	947.6	947.6
7.5°	966.1	959.6	955.0	952.2	948.5	948.5	945.7	942.9	941.1	940.1	940.1
10°	973.6	964.3	956.9	950.3	944.8	940.1	935.5	929.0	927.1	925.3	926.2
12.5°	972.6	962.4	951.3	941.1	928.1	922.5	910.4	903.0	903.0	898.3	901.1
15°	952.2	934.6	918.8	902.0	886.2	875.1	860.2	851.9	847.2	846.3	852.8
17.5°	890.9	874.2	859.3	840.7	820.3	812.9	802.6	798.9	796.1	800.8	805.4
20°	808.2	786.8	772.9	761.8	761.8	759.9	755.3	748.8	743.2	742.3	747.8
22.5°	691.2	682.8	685.6	678.2	678.2	674.4	681.9	669.8	676.3	670.7	673.5
25°	593.6	589.9	588.0	587.1	587.1	593.6	592.7	594.5	588.0	591.8	590.8
27.5°	505.4	500.7	494.2	497.9	501.6	506.3	508.2	509.1	514.7	504.4	508.2
30°	420.8	413.4	418.0	414.3	416.2	415.3	415.3	415.3	419.0	426.4	420.8
32.5°	344.7	340.9	345.6	339.1	340.0	340.0	338.1	335.4	337.2	328.9	335.4
35°	285.2	280.6	284.3	281.5	278.7	271.3	268.5	263.8	264.8	262.9	262.0
37.5°	238.7	237.8	235.0	235.0	233.2	232.2	227.6	228.5	229.5	231.3	231.3
40°	206.2	205.3	204.4	206.2	207.2	208.1	209.9	211.8	214.6	217.4	220.2
42.5°	187.7	187.7	187.7	191.4	194.2	198.8	201.6	205.3	209.0	213.7	217.4
45°	176.5	175.6	177.4	180.2	184.9	189.5	194.2	199.7	205.3	209.9	212.7
47.5°	167.2	166.3	168.1	170.9	175.6	183.0	189.5	196.0	202.5	207.2	209.0
50°	155.1	155.1	156.1	158.9	163.5	170.0	176.5	183.9	190.4	194.2	196.0
52.5°	145.8	146.8	146.8	149.6	154.2	159.8	166.3	172.8	177.4	180.2	183.9
55°	136.6	138.4	138.4	141.2	145.8	152.4	160.7	166.3	171.9	175.6	178.4
57.5°	130.1	131.0	131.0	134.7	140.3	145.8	154.2	161.6	168.1	172.8	176.5
60°	124.5	125.4	124.5	129.1	133.8	140.3	147.7	156.1	165.4	171.9	174.6
62.5°	119.8	119.8	118.9	122.6	125.4	129.1	135.6	144.9	153.3	158.9	161.6
65°	114.3	114.3	112.4	116.1	116.1	121.7	126.3	134.7	141.2	147.7	149.6
67.5°	103.1	105.0	104.0	106.8	110.5	114.3	119.8	126.3	132.8	137.5	140.3
70°	92.0	92.9	95.7	97.5	101.3	103.1	107.8	112.4	118.9	121.7	124.5
72.5°	81.8	82.7	84.5	86.4	90.1	92.0	95.7	99.4	105.0	107.8	110.5
75°	71.5	72.5	73.4	75.2	77.1	79.0	80.8	84.5	88.3	92.0	94.8
77.5°	61.3	62.2	65.0	64.1	66.0	66.9	69.7	71.5	73.4	77.1	80.8
80°	53.9	53.0	54.8	55.7	57.6	57.6	59.5	59.5	62.2	62.2	63.2
82.5°	45.5	44.6	46.4	49.2	50.2	50.2	52.0	48.3	47.4	48.3	51.1
85°	34.4	35.3	36.2	39.9	40.9	40.9	42.7	39.9	36.2	36.2	38.1
87.5°	19.5	14.9	21.4	25.1	25.1	26.0	27.9	26.9	26.0	20.4	21.4
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: P141493
 CATALOG NUMBER: CEM-F04-LED-E-U-SLL-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	947.6	0°
2.5°	948.5	949.4	950.3	951.3	952.2	951.3	953.1	951.3	952.2	950.3	949.4	2.5°
5°	947.6	948.5	948.5	950.3	951.3	948.5	950.3	947.6	947.6	945.7	942.9	5°
7.5°	941.1	942.9	942.9	944.8	944.8	942.0	942.0	936.4	934.6	928.1	923.4	7.5°
10°	928.1	930.8	932.7	936.4	938.3	933.6	930.8	924.3	916.9	909.5	902.0	10°
12.5°	905.8	906.7	913.2	918.8	921.5	924.3	922.5	921.5	914.1	909.5	906.7	12.5°
15°	854.7	862.1	868.6	881.6	890.9	901.1	908.5	916.9	920.6	925.3	927.1	15°
17.5°	810.1	818.4	823.1	834.2	843.5	859.3	878.8	900.2	915.0	933.6	951.3	17.5°
20°	747.8	761.8	765.5	783.1	795.2	815.6	837.0	864.0	893.7	922.5	954.1	20°
22.5°	678.2	684.7	692.1	710.7	725.5	751.5	784.1	821.2	855.6	895.5	941.1	22.5°
25°	593.6	602.0	609.4	629.8	651.2	675.4	714.4	759.9	803.6	856.5	916.0	25°
27.5°	510.0	516.5	529.5	544.4	568.5	594.5	642.9	693.0	743.2	807.3	877.9	27.5°
30°	422.7	429.2	435.7	453.3	478.4	509.1	552.7	612.2	671.7	740.4	824.0	30°
32.5°	339.1	340.9	353.9	366.9	388.3	414.3	461.7	519.3	583.4	667.0	749.7	32.5°
35°	264.8	275.9	281.5	299.1	312.1	339.1	379.0	432.0	498.9	583.4	672.6	35°
37.5°	235.0	238.7	246.2	259.2	276.8	301.0	328.9	369.7	427.3	498.9	582.5	37.5°
40°	223.9	227.6	233.2	243.4	260.1	282.4	305.6	338.1	382.7	439.4	514.7	40°
42.5°	220.2	221.1	223.0	232.2	249.0	274.0	301.9	332.6	366.9	412.5	471.9	42.5°
45°	215.5	215.5	216.5	223.0	237.8	263.8	299.1	338.1	377.2	418.0	468.2	45°
47.5°	211.8	212.7	211.8	214.6	225.7	250.8	289.8	337.2	389.2	442.2	497.0	47.5°
50°	196.9	196.9	197.9	198.8	207.2	231.3	269.4	321.4	385.5	457.1	532.3	50°
52.5°	184.9	186.7	186.7	188.6	194.2	213.7	251.8	306.6	376.2	459.8	561.1	52.5°
55°	181.2	183.0	183.9	183.9	187.7	204.4	240.6	292.6	366.0	457.1	572.3	55°
57.5°	178.4	180.2	181.2	180.2	183.0	196.9	230.4	281.5	354.9	450.6	576.9	57.5°
60°	175.6	176.5	174.6	172.8	173.7	185.8	215.5	265.7	341.9	441.3	575.0	60°
62.5°	162.6	163.5	161.6	159.8	157.9	167.2	194.2	243.4	314.9	419.9	560.2	62.5°
65°	151.4	151.4	151.4	149.6	147.7	153.3	172.8	214.6	276.8	381.8	525.8	65°
67.5°	142.1	141.2	141.2	140.3	138.4	140.3	152.4	181.2	229.5	321.4	463.6	67.5°
70°	127.3	126.3	127.3	126.3	124.5	124.5	130.1	145.8	178.4	236.0	360.4	70°
72.5°	112.4	113.3	115.2	115.2	115.2	116.1	116.1	120.8	138.4	169.1	245.3	72.5°
75°	96.6	97.5	100.3	104.0	102.2	103.1	103.1	105.9	115.2	133.8	171.9	75°
77.5°	81.8	84.5	88.3	89.2	86.4	86.4	88.3	92.9	101.3	112.4	131.0	77.5°
80°	66.9	70.6	71.5	73.4	74.3	74.3	76.2	79.9	88.3	102.2	117.1	80°
82.5°	53.0	55.7	58.5	61.3	63.2	66.0	66.9	68.7	77.1	91.0	107.8	82.5°
85°	39.9	42.7	46.4	49.2	51.1	53.9	53.0	53.9	58.5	69.7	81.8	85°
87.5°	24.2	24.2	26.9	27.9	28.8	28.8	30.7	26.9	28.8	37.2	44.6	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P141493

NUMBER: CEM-F04-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
947.6	947.6	947.6	947.6	947.6	947.6	947.6
950.3	949.4	948.5	949.4	951.3	951.3	948.5
943.8	941.1	939.2	939.2	939.2	938.3	936.4
921.5	916.9	914.1	912.3	911.3	911.3	907.6
897.4	894.6	889.0	887.2	888.1	890.9	890.0
903.0	894.6	891.8	891.8	890.9	895.5	894.6
933.6	933.6	929.9	929.0	927.1	932.7	932.7
966.1	974.5	978.2	974.5	975.4	976.4	983.8
983.8	1007.9	1020.9	1031.2	1032.1	1037.7	1036.7
986.6	1030.2	1064.6	1086.9	1107.3	1117.6	1115.7
972.6	1033.0	1093.4	1150.1	1192.8	1216.0	1235.5
954.1	1025.6	1103.6	1183.5	1253.2	1315.4	1354.5
910.4	1001.4	1101.8	1204.0	1303.4	1392.5	1465.0
849.1	954.1	1073.9	1208.6	1348.0	1471.5	1577.4
767.3	879.7	1025.6	1191.0	1374.9	1558.8	1718.6
679.1	802.6	962.4	1161.2	1388.8	1628.5	1847.7
602.0	723.7	898.3	1123.1	1387.0	1674.0	1942.5
551.8	666.1	842.6	1086.9	1377.7	1700.0	2016.8
535.1	638.2	805.4	1058.1	1372.1	1718.6	2067.9
557.4	646.6	797.1	1045.1	1370.2	1740.0	2112.5
609.4	693.0	828.7	1066.5	1387.0	1761.3	2157.1
658.6	758.0	897.4	1127.8	1449.2	1823.6	2218.4
698.6	828.7	971.7	1208.6	1538.4	1920.2	2310.4
720.9	883.5	1068.3	1321.0	1660.1	2062.3	2460.9
730.2	921.5	1151.0	1439.0	1813.4	2224.9	2651.3
726.5	939.2	1210.5	1546.8	1951.8	2403.3	2867.8
703.2	939.2	1247.6	1633.1	2067.9	2545.4	3058.2
647.5	906.7	1251.3	1683.3	2157.1	2665.2	3214.3
545.3	812.9	1189.1	1677.7	2185.0	2703.3	3296.0
381.8	606.6	992.2	1516.1	2066.1	2613.2	3205.9
236.9	378.1	710.7	1172.4	1719.5	2217.5	2852.9
166.3	229.5	406.9	742.3	1183.5	1652.7	2130.2
138.4	169.1	232.2	408.8	711.6	1018.2	1339.6
119.8	136.6	161.6	233.2	362.3	542.5	746.0
89.2	99.4	111.5	153.3	228.5	335.4	510.0
36.2	40.9	45.5	61.3	140.3	193.2	207.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)