

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: P141889

Luminaire Tested: **ECM-E04-LED-E1-T3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141889
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33683)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E04-LED-E1-T3-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10727.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2
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: 25 FT

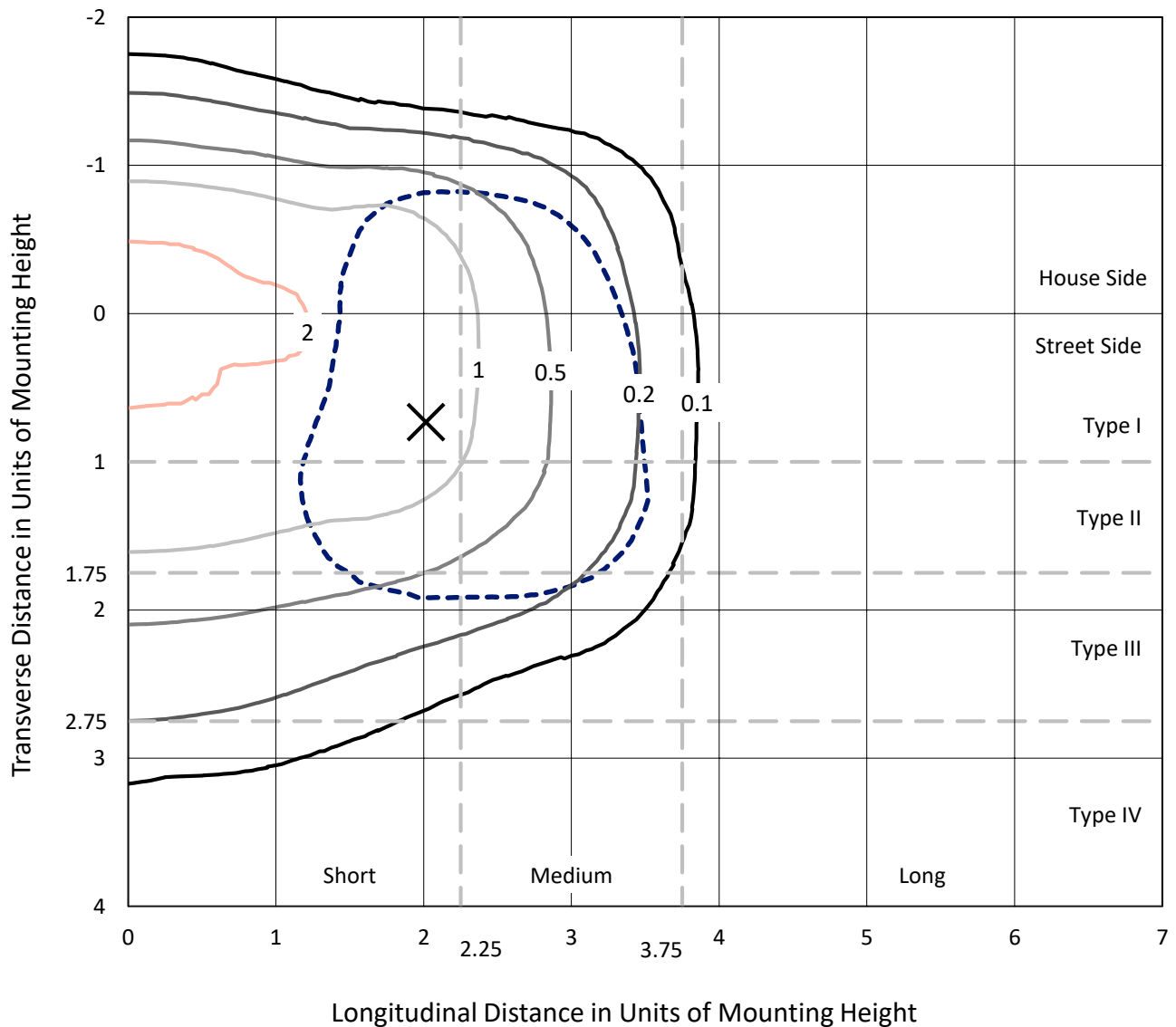


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

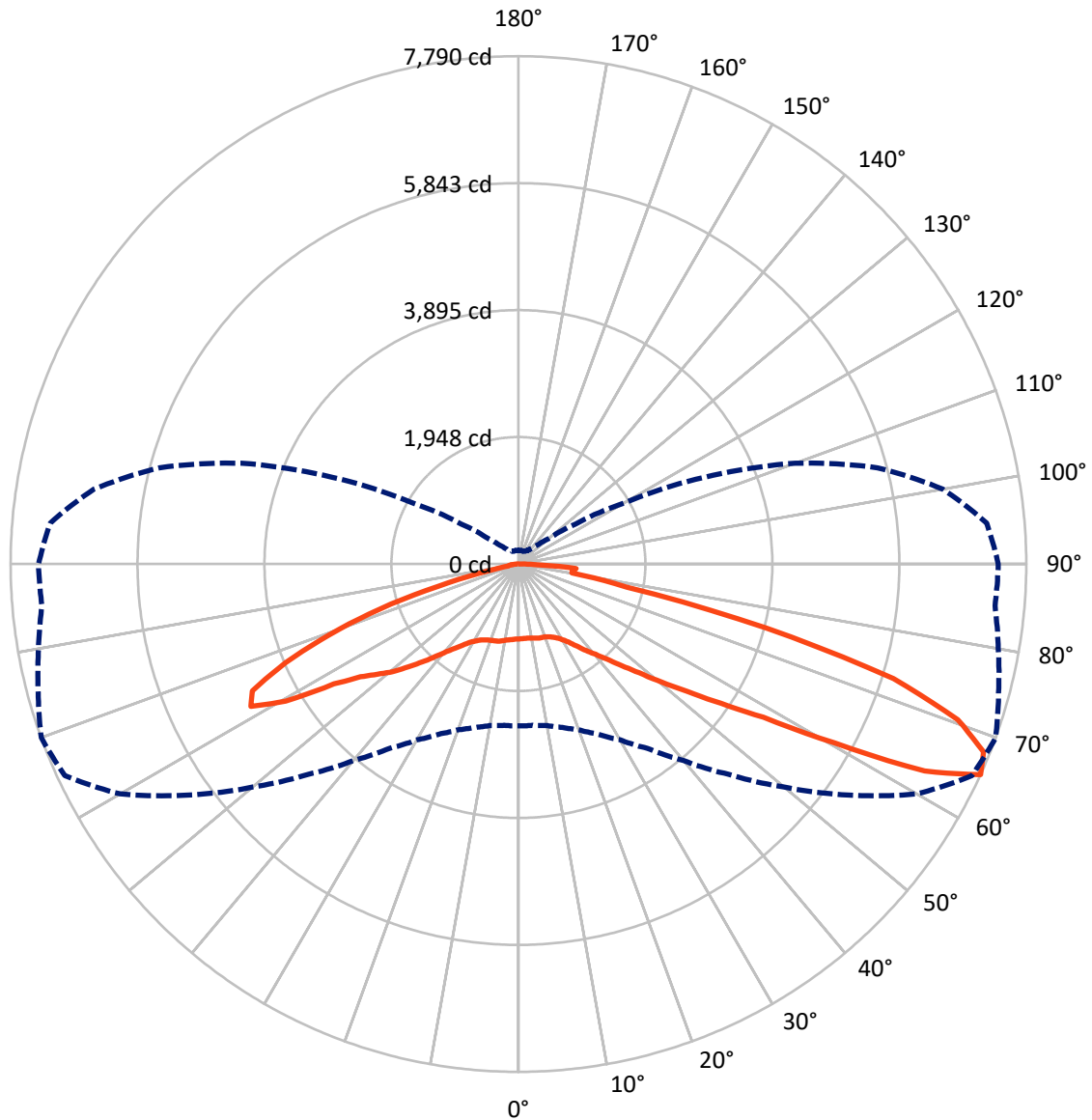


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3621.2 | 0.0 | 3621.2 |
| | % Fixture | 33.8 | 0.0 | 33.8 |
| Street Side | Lumens | 7106.1 | 0.0 | 7106.1 |
| | % Fixture | 66.2 | 0.0 | 66.2 |
| Total | Lumens | 10727.3 | 0.0 | 10727.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 110.7 | 1.0 |
| 10°-20° | 327.8 | 3.1 |
| 20°-30° | 563.5 | 5.3 |
| 30°-40° | 903.2 | 8.4 |
| 40°-50° | 1478.8 | 13.8 |
| 50°-60° | 2314.7 | 21.6 |
| 60°-70° | 3252.9 | 30.3 |
| 70°-80° | 1539.4 | 14.4 |
| 80°-90° | 236.5 | 2.2 |
| 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° | 10727.3 | 100.0 |
| 0°-180° | 10727.3 | 100.0 |



REPORT NUMBER: P141889

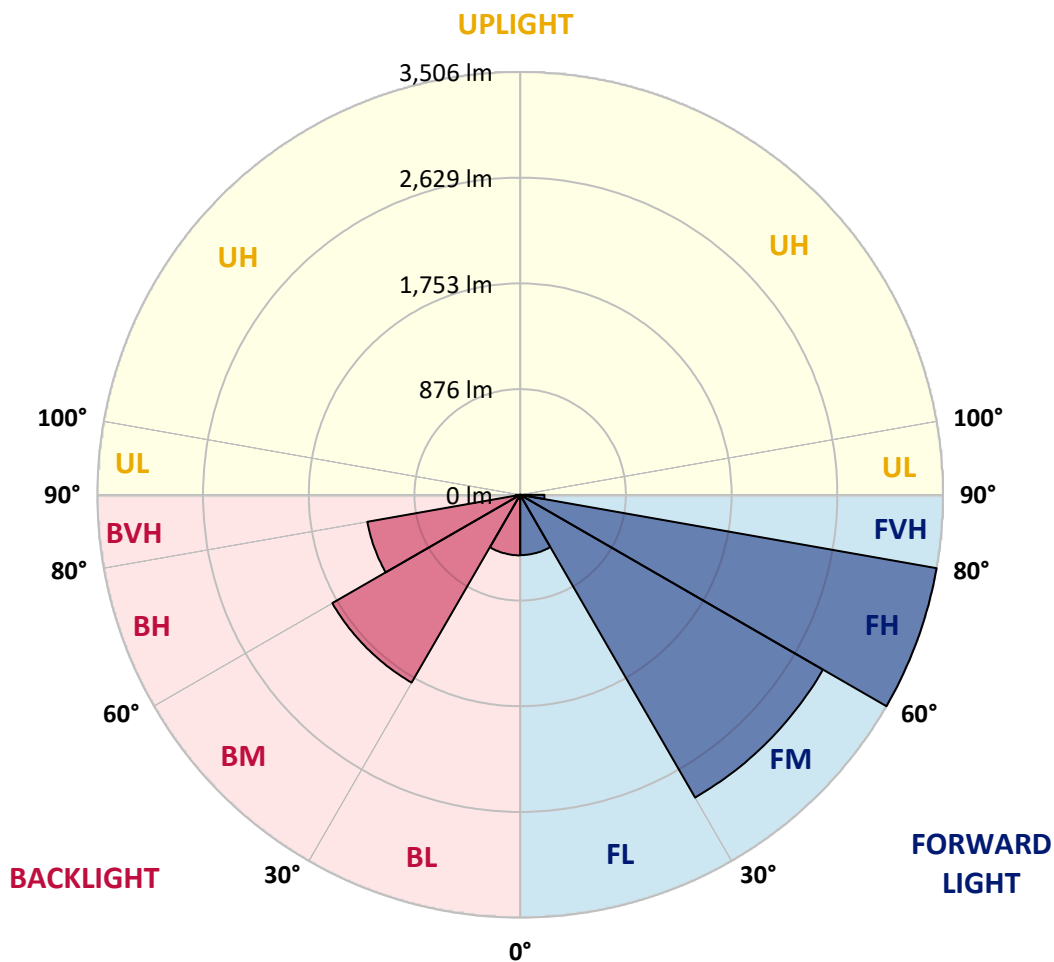
CATALOG NUMBER: ECM-E04-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 499.8 | 4.7 | | | |
| FM (30°-60°) | 2898.8 | 27.0 | | | |
| FH (60°-80°) | 3505.9 | 32.7 | | | G2/5000 |
| FVH (80°-90°) | 201.6 | 1.9 | | | G2/225 |
| BL (0°-30°) | 502.1 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 1797.9 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 1286.3 | 12.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 34.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P141889

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 |
| 2.5° | 1143.5 | 1144.7 | 1144.7 | 1142.3 | 1142.3 | 1143.5 | 1143.5 | 1144.7 | 1144.7 | 1144.7 | 1146.0 |
| 5° | 1143.5 | 1144.7 | 1144.7 | 1143.5 | 1142.3 | 1144.7 | 1143.5 | 1144.7 | 1144.7 | 1144.7 | 1144.7 |
| 7.5° | 1141.1 | 1142.3 | 1142.3 | 1141.1 | 1142.3 | 1143.5 | 1143.5 | 1146.0 | 1147.2 | 1147.2 | 1148.4 |
| 10° | 1128.9 | 1130.1 | 1131.3 | 1131.3 | 1133.8 | 1137.4 | 1138.6 | 1143.5 | 1144.7 | 1148.4 | 1150.8 |
| 12.5° | 1107.0 | 1107.0 | 1109.4 | 1111.9 | 1115.5 | 1122.8 | 1126.5 | 1133.8 | 1139.9 | 1144.7 | 1153.3 |
| 15° | 1087.5 | 1087.5 | 1089.9 | 1091.1 | 1098.5 | 1103.3 | 1110.6 | 1119.2 | 1130.1 | 1139.9 | 1153.3 |
| 17.5° | 1097.2 | 1097.2 | 1096.0 | 1094.8 | 1096.0 | 1096.0 | 1102.1 | 1110.6 | 1120.4 | 1133.8 | 1150.8 |
| 20° | 1135.0 | 1133.8 | 1128.9 | 1126.5 | 1125.2 | 1120.4 | 1116.7 | 1115.5 | 1120.4 | 1130.1 | 1147.2 |
| 22.5° | 1167.9 | 1165.4 | 1164.2 | 1161.8 | 1165.4 | 1163.0 | 1158.1 | 1152.0 | 1144.7 | 1141.1 | 1150.8 |
| 25° | 1187.4 | 1188.6 | 1188.6 | 1188.6 | 1195.9 | 1198.3 | 1200.8 | 1193.4 | 1184.9 | 1172.7 | 1174.0 |
| 27.5° | 1214.1 | 1215.4 | 1212.9 | 1217.8 | 1226.3 | 1232.4 | 1238.5 | 1243.4 | 1238.5 | 1231.2 | 1222.7 |
| 30° | 1271.4 | 1271.4 | 1267.7 | 1271.4 | 1278.7 | 1284.8 | 1293.3 | 1301.8 | 1301.8 | 1294.5 | 1286.0 |
| 32.5° | 1331.1 | 1332.3 | 1332.3 | 1334.7 | 1345.7 | 1350.5 | 1362.7 | 1371.2 | 1377.3 | 1372.5 | 1377.3 |
| 35° | 1402.9 | 1401.7 | 1405.3 | 1406.6 | 1423.6 | 1429.7 | 1454.1 | 1460.1 | 1469.9 | 1472.3 | 1476.0 |
| 37.5° | 1522.3 | 1524.7 | 1517.4 | 1512.5 | 1527.1 | 1527.1 | 1558.8 | 1575.8 | 1573.4 | 1590.4 | 1602.6 |
| 40° | 1714.7 | 1703.7 | 1700.0 | 1697.6 | 1706.1 | 1704.9 | 1703.7 | 1726.8 | 1737.8 | 1740.2 | 1746.3 |
| 42.5° | 1927.8 | 1931.4 | 1927.8 | 1936.3 | 1936.3 | 1930.2 | 1925.3 | 1921.7 | 1942.4 | 1955.8 | 1958.2 |
| 45° | 2177.4 | 2182.3 | 2175.0 | 2168.9 | 2184.7 | 2193.3 | 2193.3 | 2203.0 | 2220.1 | 2226.1 | 2222.5 |
| 47.5° | 2377.1 | 2390.5 | 2384.5 | 2393.0 | 2418.6 | 2447.8 | 2486.7 | 2512.3 | 2530.6 | 2547.6 | 2574.4 |
| 50° | 2557.4 | 2563.5 | 2578.1 | 2606.1 | 2643.8 | 2690.1 | 2753.4 | 2816.8 | 2853.3 | 2895.9 | 2927.6 |
| 52.5° | 2667.0 | 2685.2 | 2707.2 | 2753.4 | 2816.8 | 2881.3 | 2978.7 | 3082.3 | 3174.8 | 3222.3 | 3260.1 |
| 55° | 2732.7 | 2746.1 | 2775.4 | 2838.7 | 2927.6 | 3023.8 | 3145.6 | 3288.1 | 3411.1 | 3515.8 | 3597.4 |
| 57.5° | 2730.3 | 2741.3 | 2781.5 | 2850.9 | 2956.8 | 3077.4 | 3229.6 | 3407.4 | 3588.9 | 3763.0 | 3916.4 |
| 60° | 2677.9 | 2687.7 | 2727.9 | 2802.2 | 2917.8 | 3061.6 | 3244.2 | 3462.2 | 3708.2 | 3970.0 | 4239.2 |
| 62.5° | 2597.6 | 2604.9 | 2640.2 | 2714.5 | 2831.4 | 2984.8 | 3199.2 | 3485.3 | 3834.9 | 4247.7 | 4770.1 |
| 65° | 2484.3 | 2484.3 | 2517.2 | 2593.9 | 2706.0 | 2877.7 | 3113.9 | 3450.0 | 3933.5 | 4561.9 | 5321.8 |
| 67.5° | 2317.5 | 2317.5 | 2344.3 | 2407.6 | 2495.3 | 2614.6 | 2850.9 | 3200.4 | 3710.6 | 4463.2 | 5352.2 |
| 70° | 2002.1 | 2006.9 | 2006.9 | 2045.9 | 2084.9 | 2138.5 | 2250.5 | 2518.4 | 2997.0 | 3732.6 | 4606.9 |
| 72.5° | 1467.4 | 1378.6 | 1448.0 | 1511.3 | 1555.1 | 1584.4 | 1648.9 | 1732.9 | 1974.1 | 2525.7 | 3317.3 |
| 75° | 924.3 | 947.4 | 999.8 | 1071.7 | 1180.0 | 1292.1 | 1415.1 | 1467.4 | 1445.5 | 1511.3 | 2043.5 |
| 77.5° | 560.2 | 540.7 | 591.9 | 699.0 | 820.8 | 973.0 | 1203.2 | 1402.9 | 1517.4 | 1510.1 | 1446.7 |
| 80° | 242.3 | 236.3 | 270.4 | 321.5 | 381.2 | 518.8 | 729.5 | 1003.5 | 1307.9 | 1484.5 | 1457.7 |
| 82.5° | 86.5 | 87.7 | 110.8 | 131.5 | 158.3 | 203.4 | 288.6 | 461.5 | 731.9 | 1042.4 | 1288.4 |
| 85° | 25.6 | 28.0 | 39.0 | 54.8 | 62.1 | 70.6 | 97.4 | 144.9 | 247.2 | 394.6 | 701.5 |
| 87.5° | 7.3 | 8.5 | 11.0 | 19.5 | 18.3 | 17.0 | 19.5 | 30.4 | 23.1 | 19.5 | 97.4 |
| 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: P141889

CATALOG NUMBER: ECM-E04-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 |
| 2.5° | 1144.7 | 1144.7 | 1144.7 | 1146.0 | 1144.7 | 1144.7 | 1146.0 | 1146.0 | 1147.2 | 1148.4 | 1150.8 |
| 5° | 1143.5 | 1143.5 | 1144.7 | 1144.7 | 1144.7 | 1146.0 | 1147.2 | 1148.4 | 1150.8 | 1154.5 | 1158.1 |
| 7.5° | 1147.2 | 1147.2 | 1146.0 | 1147.2 | 1147.2 | 1148.4 | 1150.8 | 1152.0 | 1156.9 | 1160.6 | 1166.7 |
| 10° | 1150.8 | 1150.8 | 1152.0 | 1153.3 | 1153.3 | 1155.7 | 1159.3 | 1160.6 | 1165.4 | 1172.7 | 1178.8 |
| 12.5° | 1155.7 | 1159.3 | 1164.2 | 1166.7 | 1169.1 | 1171.5 | 1175.2 | 1177.6 | 1183.7 | 1193.4 | 1200.8 |
| 15° | 1159.3 | 1167.9 | 1172.7 | 1178.8 | 1182.5 | 1183.7 | 1187.4 | 1192.2 | 1198.3 | 1208.1 | 1216.6 |
| 17.5° | 1159.3 | 1170.3 | 1177.6 | 1183.7 | 1189.8 | 1193.4 | 1197.1 | 1202.0 | 1210.5 | 1220.2 | 1228.8 |
| 20° | 1158.1 | 1174.0 | 1183.7 | 1193.4 | 1204.4 | 1208.1 | 1214.1 | 1219.0 | 1228.8 | 1240.9 | 1247.0 |
| 22.5° | 1164.2 | 1182.5 | 1195.9 | 1212.9 | 1225.1 | 1234.8 | 1242.2 | 1250.7 | 1258.0 | 1266.5 | 1268.9 |
| 25° | 1182.5 | 1200.8 | 1222.7 | 1243.4 | 1260.4 | 1275.0 | 1284.8 | 1292.1 | 1300.6 | 1304.3 | 1299.4 |
| 27.5° | 1212.9 | 1226.3 | 1256.8 | 1287.2 | 1314.0 | 1332.3 | 1343.2 | 1353.0 | 1355.4 | 1362.7 | 1344.5 |
| 30° | 1267.7 | 1273.8 | 1305.5 | 1349.3 | 1379.8 | 1410.2 | 1424.8 | 1434.6 | 1435.8 | 1430.9 | 1399.3 |
| 32.5° | 1357.8 | 1346.9 | 1374.9 | 1433.4 | 1479.6 | 1505.2 | 1528.3 | 1534.4 | 1530.8 | 1514.9 | 1463.8 |
| 35° | 1467.4 | 1450.4 | 1463.8 | 1549.0 | 1600.2 | 1637.9 | 1659.9 | 1666.0 | 1657.4 | 1629.4 | 1558.8 |
| 37.5° | 1602.6 | 1596.5 | 1602.6 | 1684.2 | 1773.1 | 1808.4 | 1818.2 | 1825.5 | 1804.8 | 1753.6 | 1661.1 |
| 40° | 1752.4 | 1753.6 | 1746.3 | 1820.6 | 1932.6 | 1983.8 | 2006.9 | 1991.1 | 1965.5 | 1892.5 | 1790.2 |
| 42.5° | 1959.4 | 1952.1 | 1926.6 | 1993.5 | 2137.2 | 2189.6 | 2210.3 | 2198.1 | 2172.6 | 2080.0 | 1960.7 |
| 45° | 2233.4 | 2209.1 | 2184.7 | 2220.1 | 2358.9 | 2427.1 | 2457.5 | 2449.0 | 2403.9 | 2291.9 | 2179.9 |
| 47.5° | 2568.3 | 2542.8 | 2497.7 | 2491.6 | 2631.7 | 2712.0 | 2723.0 | 2709.6 | 2675.5 | 2563.5 | 2425.9 |
| 50° | 2920.3 | 2913.0 | 2892.3 | 2843.6 | 2969.0 | 3049.4 | 3042.1 | 3032.3 | 2994.6 | 2852.1 | 2710.8 |
| 52.5° | 3284.4 | 3299.0 | 3285.6 | 3251.5 | 3385.5 | 3418.4 | 3420.8 | 3391.6 | 3347.7 | 3216.2 | 3023.8 |
| 55° | 3666.8 | 3721.6 | 3742.3 | 3769.1 | 3875.0 | 3870.2 | 3842.2 | 3772.7 | 3783.7 | 3633.9 | 3367.2 |
| 57.5° | 4072.3 | 4240.4 | 4373.1 | 4432.8 | 4533.9 | 4563.1 | 4492.5 | 4515.6 | 4505.9 | 4351.2 | 3931.1 |
| 60° | 4606.9 | 5008.8 | 5354.7 | 5567.8 | 5704.2 | 5651.8 | 5750.5 | 5755.3 | 5922.2 | 5582.4 | 4927.2 |
| 62.5° | 5459.4 | 6197.4 | 6811.2 | 6995.0 | 7030.4 | 7018.2 | 6901.3 | 7018.2 | 6986.5 | 6572.5 | 5723.7 |
| 65° | 6176.7 | 7054.7 | 7678.2 | 7790.3 | 7625.9 | 7474.9 | 7338.5 | 7361.6 | 7210.6 | 6611.4 | 5700.5 |
| 67.5° | 6274.1 | 7148.5 | 7726.9 | 7695.3 | 7336.0 | 7055.9 | 6829.4 | 6651.6 | 6343.5 | 5801.6 | 5007.6 |
| 70° | 5503.2 | 6430.0 | 7175.3 | 7150.9 | 6651.6 | 6277.8 | 5910.0 | 5642.1 | 5327.9 | 4909.0 | 4157.6 |
| 72.5° | 4280.6 | 5106.2 | 5828.4 | 6015.9 | 5523.9 | 5111.1 | 4773.8 | 4432.8 | 4108.9 | 3710.6 | 3236.9 |
| 75° | 2914.2 | 3535.3 | 3871.4 | 3922.5 | 3471.9 | 3162.6 | 3032.3 | 2753.4 | 2410.0 | 2324.8 | 1974.1 |
| 77.5° | 1692.7 | 1931.4 | 1829.1 | 1692.7 | 1362.7 | 1001.0 | 764.8 | 654.0 | 656.4 | 753.8 | 722.2 |
| 80° | 1376.1 | 1310.4 | 1033.9 | 829.3 | 563.8 | 287.4 | 192.4 | 165.6 | 166.8 | 193.6 | 187.5 |
| 82.5° | 1418.7 | 1456.5 | 1197.1 | 837.8 | 577.2 | 304.5 | 146.1 | 108.4 | 126.7 | 137.6 | 135.2 |
| 85° | 1051.0 | 1377.3 | 1234.8 | 889.0 | 619.9 | 323.9 | 95.0 | 59.7 | 84.0 | 102.3 | 109.6 |
| 87.5° | 294.7 | 462.8 | 359.3 | 237.5 | 172.9 | 58.5 | 37.8 | 31.7 | 39.0 | 53.6 | 53.6 |
| 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: ECM-E04-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 | 1149.6 |
| 2.5° | 1152.0 | 1156.9 | 1155.7 | 1158.1 | 1159.3 | 1163.0 | 1165.4 | 1164.2 | 1164.2 | 1166.7 | 1169.1 |
| 5° | 1161.8 | 1167.9 | 1167.9 | 1171.5 | 1175.2 | 1180.0 | 1183.7 | 1181.3 | 1182.5 | 1184.9 | 1187.4 |
| 7.5° | 1171.5 | 1178.8 | 1180.0 | 1183.7 | 1186.1 | 1188.6 | 1191.0 | 1187.4 | 1186.1 | 1186.1 | 1184.9 |
| 10° | 1183.7 | 1191.0 | 1189.8 | 1189.8 | 1188.6 | 1186.1 | 1181.3 | 1172.7 | 1166.7 | 1163.0 | 1160.6 |
| 12.5° | 1204.4 | 1209.3 | 1202.0 | 1194.7 | 1182.5 | 1174.0 | 1163.0 | 1153.3 | 1146.0 | 1139.9 | 1137.4 |
| 15° | 1222.7 | 1220.2 | 1211.7 | 1198.3 | 1181.3 | 1167.9 | 1156.9 | 1143.5 | 1135.0 | 1127.7 | 1124.0 |
| 17.5° | 1232.4 | 1223.9 | 1211.7 | 1199.5 | 1184.9 | 1172.7 | 1159.3 | 1143.5 | 1130.1 | 1120.4 | 1115.5 |
| 20° | 1242.2 | 1228.8 | 1212.9 | 1200.8 | 1189.8 | 1180.0 | 1170.3 | 1150.8 | 1133.8 | 1119.2 | 1111.9 |
| 22.5° | 1256.8 | 1238.5 | 1222.7 | 1211.7 | 1200.8 | 1191.0 | 1181.3 | 1163.0 | 1144.7 | 1125.2 | 1114.3 |
| 25° | 1277.5 | 1253.1 | 1242.2 | 1231.2 | 1219.0 | 1209.3 | 1195.9 | 1178.8 | 1159.3 | 1136.2 | 1120.4 |
| 27.5° | 1310.4 | 1288.4 | 1276.3 | 1265.3 | 1250.7 | 1234.8 | 1220.2 | 1197.1 | 1178.8 | 1152.0 | 1131.3 |
| 30° | 1357.8 | 1334.7 | 1323.7 | 1312.8 | 1295.7 | 1275.0 | 1254.3 | 1225.1 | 1199.5 | 1169.1 | 1142.3 |
| 32.5° | 1417.5 | 1405.3 | 1391.9 | 1373.7 | 1350.5 | 1325.0 | 1294.5 | 1255.6 | 1219.0 | 1181.3 | 1147.2 |
| 35° | 1510.1 | 1489.4 | 1467.4 | 1449.2 | 1415.1 | 1379.8 | 1333.5 | 1276.3 | 1227.5 | 1181.3 | 1139.9 |
| 37.5° | 1616.0 | 1594.1 | 1564.9 | 1532.0 | 1480.8 | 1424.8 | 1360.3 | 1288.4 | 1223.9 | 1167.9 | 1121.6 |
| 40° | 1743.9 | 1715.9 | 1676.9 | 1614.8 | 1539.3 | 1455.3 | 1368.8 | 1278.7 | 1203.2 | 1138.6 | 1085.1 |
| 42.5° | 1913.2 | 1855.9 | 1780.4 | 1689.1 | 1581.9 | 1467.4 | 1357.8 | 1253.1 | 1167.9 | 1097.2 | 1043.7 |
| 45° | 2104.4 | 2013.0 | 1891.2 | 1754.9 | 1606.3 | 1462.6 | 1333.5 | 1211.7 | 1115.5 | 1037.6 | 981.5 |
| 47.5° | 2310.2 | 2167.7 | 1988.7 | 1796.3 | 1608.7 | 1435.8 | 1286.0 | 1149.6 | 1041.2 | 958.4 | 889.0 |
| 50° | 2542.8 | 2307.7 | 2056.9 | 1817.0 | 1592.9 | 1388.3 | 1217.8 | 1060.7 | 948.7 | 850.0 | 786.7 |
| 52.5° | 2742.5 | 2430.7 | 2104.4 | 1808.4 | 1536.9 | 1305.5 | 1105.8 | 953.5 | 822.0 | 734.3 | 672.2 |
| 55° | 2978.7 | 2550.1 | 2129.9 | 1765.8 | 1446.7 | 1176.4 | 985.2 | 815.9 | 691.7 | 613.8 | 560.2 |
| 57.5° | 3377.0 | 2752.2 | 2151.9 | 1679.3 | 1298.2 | 1014.4 | 818.4 | 660.0 | 562.6 | 494.4 | 456.7 |
| 60° | 4145.4 | 3144.4 | 2242.0 | 1550.3 | 1109.4 | 819.6 | 632.0 | 516.3 | 432.3 | 387.3 | 360.5 |
| 62.5° | 4648.3 | 3411.1 | 2201.8 | 1351.8 | 867.1 | 613.8 | 462.8 | 372.6 | 323.9 | 291.1 | 278.9 |
| 65° | 4520.5 | 3141.9 | 1868.1 | 1071.7 | 604.0 | 408.0 | 310.5 | 255.7 | 233.8 | 216.8 | 209.5 |
| 67.5° | 3882.3 | 2534.2 | 1354.2 | 692.9 | 382.4 | 248.4 | 203.4 | 181.5 | 171.7 | 164.4 | 163.2 |
| 70° | 3093.2 | 1786.5 | 805.0 | 367.8 | 211.9 | 164.4 | 144.9 | 136.4 | 132.7 | 132.7 | 132.7 |
| 72.5° | 2244.4 | 1029.0 | 395.8 | 198.5 | 142.5 | 125.4 | 116.9 | 114.5 | 113.3 | 113.3 | 114.5 |
| 75° | 1282.3 | 445.7 | 203.4 | 136.4 | 116.9 | 108.4 | 103.5 | 103.5 | 103.5 | 103.5 | 104.7 |
| 77.5° | 446.9 | 203.4 | 143.7 | 114.5 | 101.1 | 96.2 | 93.8 | 96.2 | 97.4 | 97.4 | 97.4 |
| 80° | 163.2 | 143.7 | 123.0 | 99.9 | 90.1 | 85.2 | 85.2 | 88.9 | 91.3 | 88.9 | 87.7 |
| 82.5° | 129.1 | 113.3 | 99.9 | 86.5 | 79.2 | 76.7 | 77.9 | 80.4 | 79.2 | 77.9 | 74.3 |
| 85° | 98.6 | 74.3 | 69.4 | 64.5 | 63.3 | 63.3 | 68.2 | 69.4 | 64.5 | 62.1 | 58.5 |
| 87.5° | 48.7 | 39.0 | 35.3 | 41.4 | 40.2 | 36.5 | 37.8 | 37.8 | 31.7 | 29.2 | 30.4 |
| 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: P141889

CATALOG NUMBER: ECM-E04-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1149.6 | 1149.6 | 1149.6 | 1149.6 |
| 2.5° | 1169.1 | 1170.3 | 1174.0 | 1172.7 |
| 5° | 1186.1 | 1187.4 | 1189.8 | 1189.8 |
| 7.5° | 1182.5 | 1183.7 | 1183.7 | 1183.7 |
| 10° | 1154.5 | 1154.5 | 1156.9 | 1156.9 |
| 12.5° | 1132.6 | 1131.3 | 1131.3 | 1128.9 |
| 15° | 1119.2 | 1116.7 | 1117.9 | 1114.3 |
| 17.5° | 1109.4 | 1108.2 | 1108.2 | 1105.8 |
| 20° | 1105.8 | 1103.3 | 1102.1 | 1099.7 |
| 22.5° | 1103.3 | 1102.1 | 1099.7 | 1097.2 |
| 25° | 1109.4 | 1103.3 | 1102.1 | 1099.7 |
| 27.5° | 1115.5 | 1109.4 | 1104.5 | 1103.3 |
| 30° | 1121.6 | 1110.6 | 1104.5 | 1102.1 |
| 32.5° | 1120.4 | 1105.8 | 1097.2 | 1093.6 |
| 35° | 1107.0 | 1088.7 | 1077.8 | 1074.1 |
| 37.5° | 1081.4 | 1060.7 | 1043.7 | 1037.6 |
| 40° | 1044.9 | 1018.1 | 1002.2 | 993.7 |
| 42.5° | 1001.0 | 970.6 | 957.2 | 949.9 |
| 45° | 929.2 | 904.8 | 889.0 | 882.9 |
| 47.5° | 848.8 | 815.9 | 801.3 | 795.2 |
| 50° | 745.3 | 718.5 | 706.3 | 697.8 |
| 52.5° | 635.7 | 611.3 | 600.4 | 595.5 |
| 55° | 529.7 | 517.6 | 500.5 | 496.9 |
| 57.5° | 429.9 | 426.2 | 414.1 | 412.8 |
| 60° | 349.5 | 343.4 | 334.9 | 334.9 |
| 62.5° | 275.2 | 269.1 | 265.5 | 265.5 |
| 65° | 211.9 | 210.7 | 208.2 | 207.0 |
| 67.5° | 163.2 | 166.8 | 168.1 | 165.6 |
| 70° | 136.4 | 137.6 | 137.6 | 137.6 |
| 72.5° | 118.1 | 118.1 | 118.1 | 116.9 |
| 75° | 107.2 | 107.2 | 104.7 | 103.5 |
| 77.5° | 98.6 | 97.4 | 98.6 | 97.4 |
| 80° | 86.5 | 85.2 | 82.8 | 80.4 |
| 82.5° | 71.9 | 70.6 | 64.5 | 64.5 |
| 85° | 56.0 | 52.4 | 47.5 | 42.6 |
| 87.5° | 31.7 | 28.0 | 20.7 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)