

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: P141291

Luminaire Tested: **EMM-E04-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141291
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33692)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E04-LED-E1-SL4-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11588.7 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

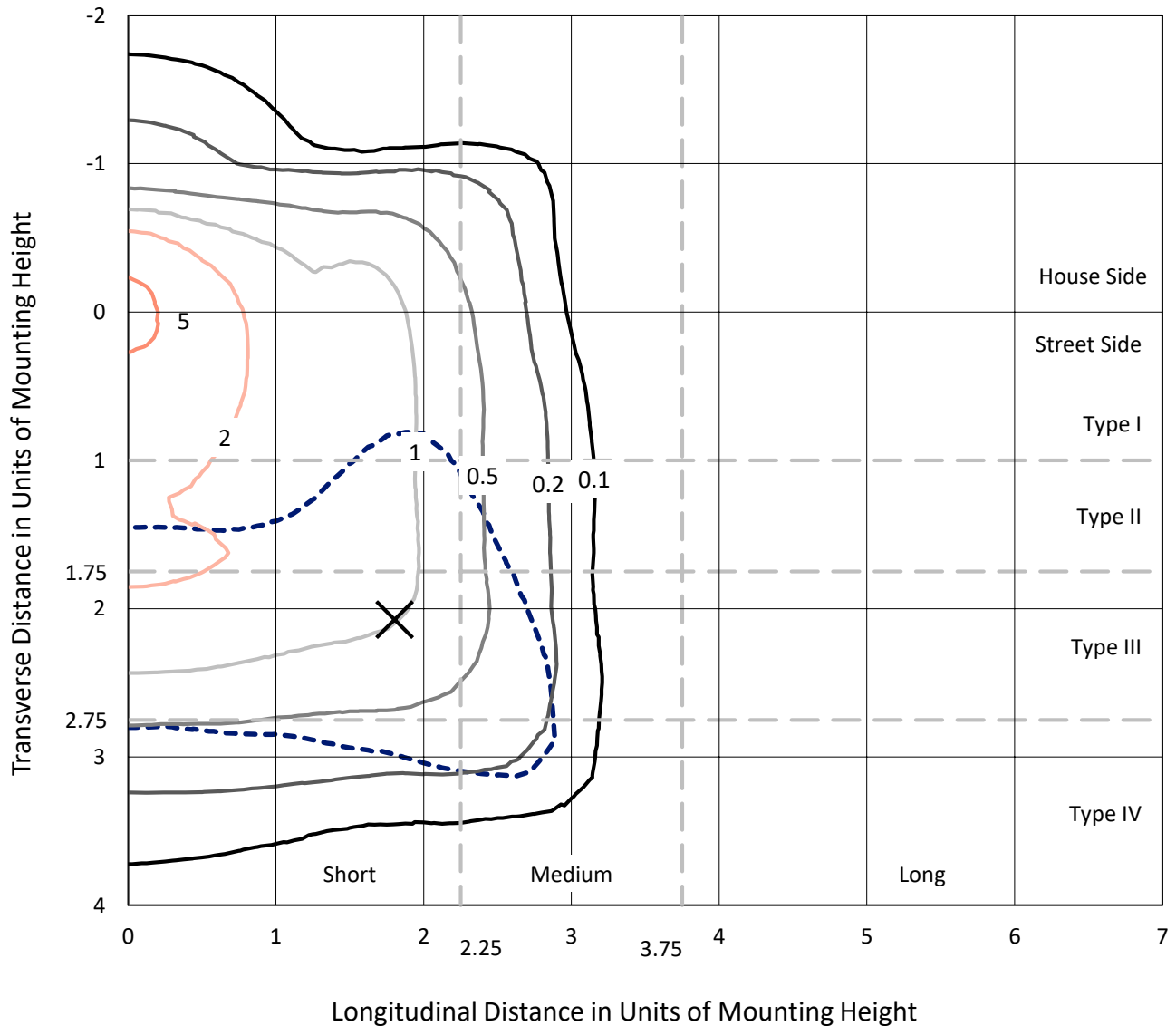
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

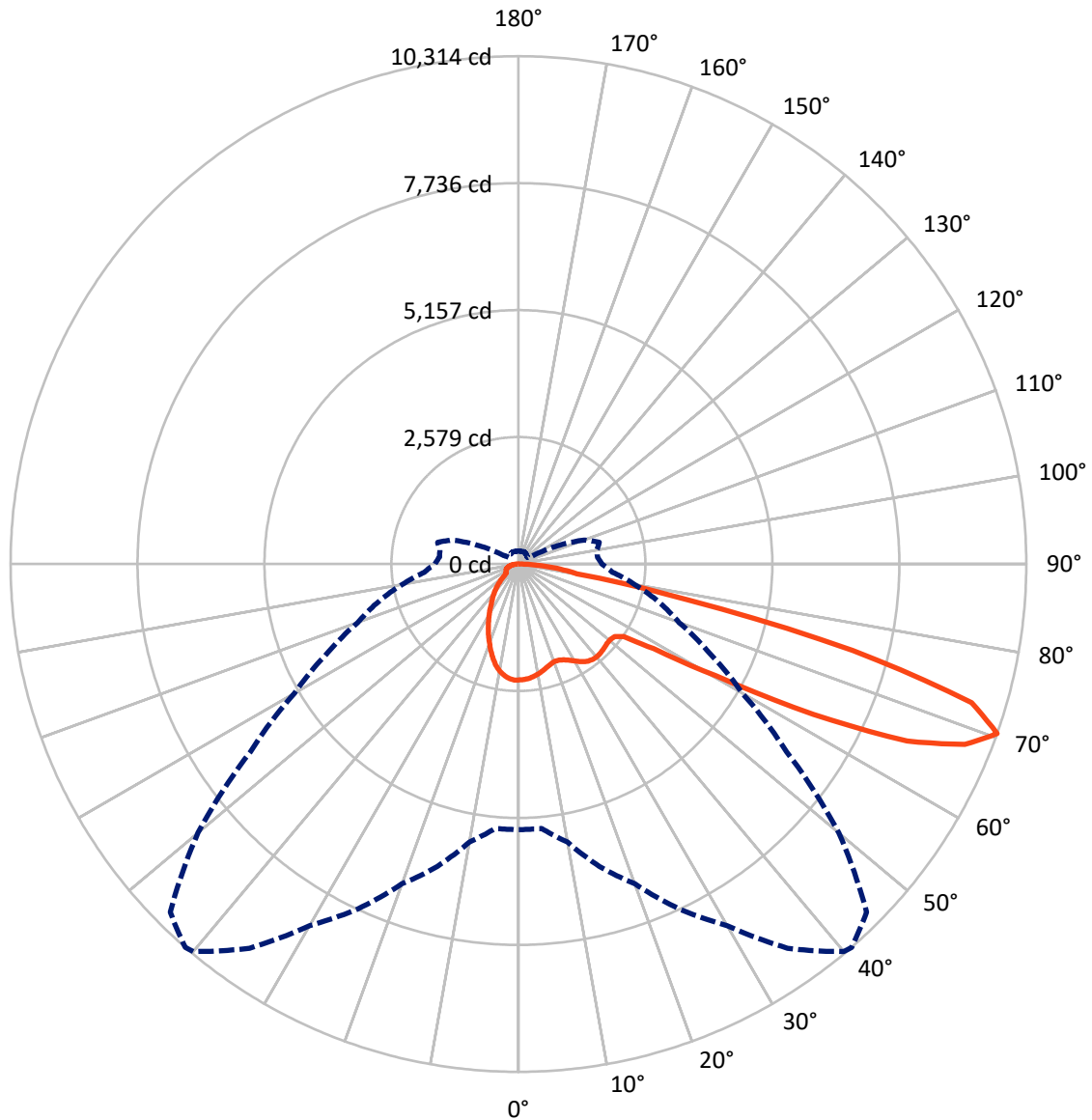
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2486.4 | 0.0 | 2486.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 9102.3 | 0.0 | 9102.3 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 11588.7 | 0.0 | 11588.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 219.1 | 1.9 |
| 10°-20° | 587.3 | 5.1 |
| 20°-30° | 849.1 | 7.3 |
| 30°-40° | 1080.7 | 9.3 |
| 40°-50° | 1273.5 | 11.0 |
| 50°-60° | 1948.5 | 16.8 |
| 60°-70° | 3621.6 | 31.3 |
| 70°-80° | 1747.9 | 15.1 |
| 80°-90° | 261.1 | 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° | 11588.7 | 100.0 |
| 0°-180° | 11588.7 | 100.0 |



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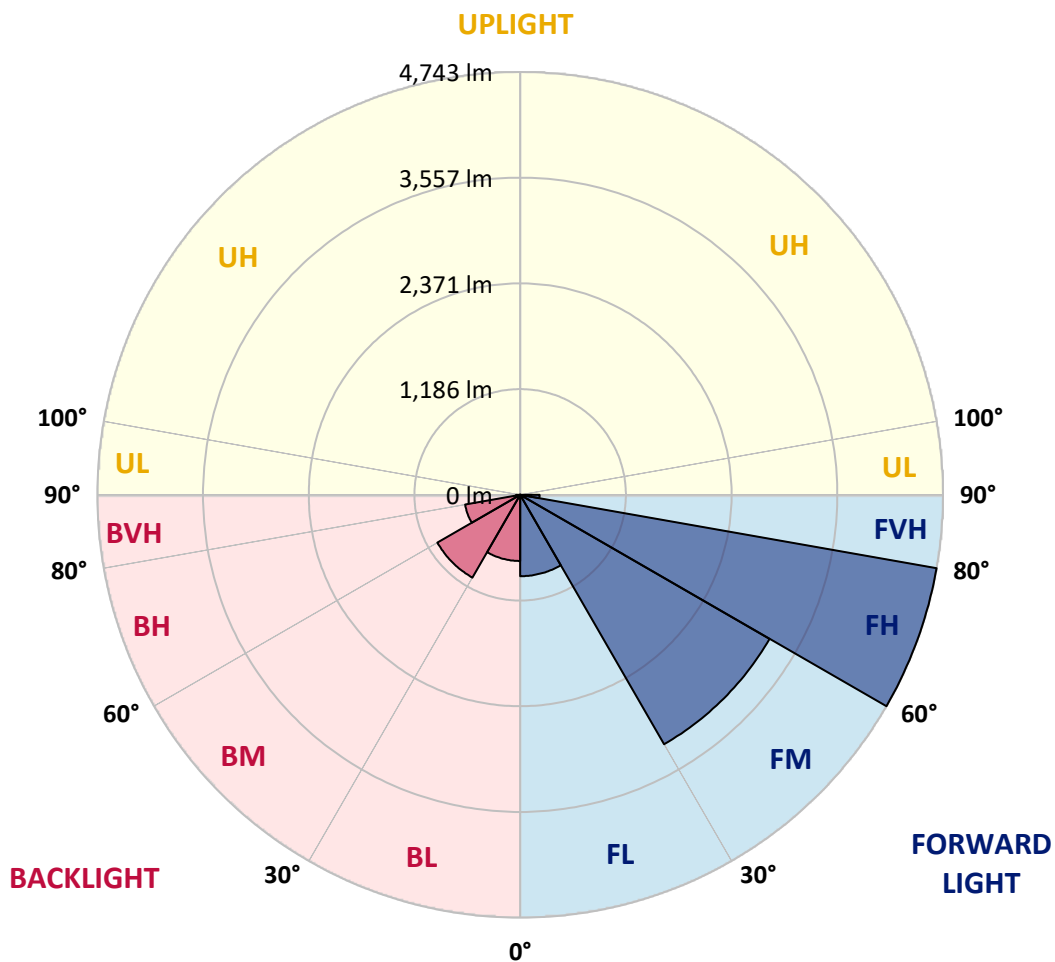
CATALOG NUMBER: EMM-E04-LED-E1-SL4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 912.7 | 7.9 | | | |
| FM (30°-60°) | 3230.0 | 27.9 | | | |
| FH (60°-80°) | 4742.6 | 40.9 | | | G2/5000 |
| FVH (80°-90°) | 217.0 | 1.9 | | | G2/225 |
| BL (0°-30°) | 742.7 | 6.4 | B2/1000 | | |
| BM (30°-60°) | 1072.7 | 9.3 | B2/2500 | | |
| BH (60°-80°) | 627.0 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 41° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 |
| 2.5° | 2354.6 | 2357.3 | 2355.9 | 2353.2 | 2350.5 | 2351.8 | 2350.5 | 2349.1 | 2349.1 | 2347.7 | 2346.4 |
| 5° | 2343.6 | 2349.1 | 2345.0 | 2342.3 | 2338.2 | 2338.2 | 2336.8 | 2334.0 | 2331.3 | 2329.9 | 2327.2 |
| 7.5° | 2320.4 | 2325.8 | 2323.1 | 2320.4 | 2316.3 | 2313.5 | 2308.1 | 2305.3 | 2302.6 | 2301.2 | 2297.1 |
| 10° | 2288.9 | 2291.6 | 2288.9 | 2283.4 | 2280.7 | 2279.3 | 2276.6 | 2271.1 | 2265.6 | 2262.9 | 2258.8 |
| 12.5° | 2247.9 | 2249.2 | 2246.5 | 2243.8 | 2239.6 | 2239.6 | 2235.5 | 2231.4 | 2223.2 | 2220.5 | 2210.9 |
| 15° | 2212.3 | 2208.2 | 2205.4 | 2204.1 | 2202.7 | 2195.9 | 2197.2 | 2190.4 | 2176.7 | 2172.6 | 2161.7 |
| 17.5° | 2202.7 | 2198.6 | 2197.2 | 2193.1 | 2190.4 | 2182.2 | 2174.0 | 2160.3 | 2137.0 | 2132.9 | 2116.5 |
| 20° | 2230.1 | 2230.1 | 2226.0 | 2223.2 | 2219.1 | 2204.1 | 2186.3 | 2160.3 | 2117.9 | 2108.3 | 2087.8 |
| 22.5° | 2295.7 | 2288.9 | 2286.2 | 2286.2 | 2284.8 | 2262.9 | 2230.1 | 2189.0 | 2132.9 | 2120.6 | 2085.0 |
| 25° | 2398.4 | 2386.0 | 2390.1 | 2388.8 | 2386.0 | 2354.6 | 2306.7 | 2247.9 | 2171.2 | 2154.8 | 2108.3 |
| 27.5° | 2520.1 | 2522.9 | 2521.5 | 2516.0 | 2507.8 | 2473.6 | 2405.2 | 2325.8 | 2230.1 | 2213.7 | 2153.5 |
| 30° | 2647.4 | 2650.1 | 2658.3 | 2654.2 | 2648.7 | 2596.7 | 2511.9 | 2425.7 | 2309.4 | 2287.5 | 2213.7 |
| 32.5° | 2795.1 | 2804.7 | 2811.5 | 2812.9 | 2791.0 | 2719.9 | 2620.0 | 2510.5 | 2387.4 | 2365.5 | 2273.8 |
| 35° | 2966.1 | 2960.7 | 2973.0 | 2967.5 | 2929.2 | 2832.1 | 2708.9 | 2578.9 | 2453.1 | 2424.3 | 2325.8 |
| 37.5° | 3138.5 | 3145.4 | 3133.0 | 3109.8 | 3049.6 | 2922.3 | 2770.5 | 2624.1 | 2484.5 | 2457.2 | 2354.6 |
| 40° | 3305.4 | 3301.3 | 3272.6 | 3232.9 | 3142.6 | 2979.8 | 2804.7 | 2644.6 | 2495.5 | 2466.8 | 2361.4 |
| 42.5° | 3429.9 | 3419.0 | 3375.2 | 3310.9 | 3194.6 | 3007.2 | 2814.3 | 2644.6 | 2488.6 | 2458.5 | 2351.8 |
| 45° | 3484.7 | 3473.7 | 3431.3 | 3349.2 | 3211.0 | 3001.7 | 2797.8 | 2621.4 | 2465.4 | 2439.4 | 2332.7 |
| 47.5° | 3484.7 | 3480.5 | 3434.0 | 3354.7 | 3206.9 | 2986.7 | 2773.2 | 2592.6 | 2442.1 | 2416.1 | 2316.3 |
| 50° | 3457.3 | 3454.6 | 3413.5 | 3335.5 | 3193.2 | 2978.4 | 2766.4 | 2587.2 | 2440.8 | 2414.8 | 2323.1 |
| 52.5° | 3549.0 | 3531.2 | 3488.8 | 3398.5 | 3243.9 | 3012.6 | 2800.6 | 2614.5 | 2473.6 | 2447.6 | 2353.2 |
| 55° | 4664.0 | 4648.9 | 4434.1 | 4056.5 | 3661.1 | 3300.0 | 2990.8 | 2777.3 | 2635.0 | 2595.4 | 2527.0 |
| 57.5° | 6467.2 | 6445.3 | 6225.0 | 5881.6 | 5201.7 | 4428.7 | 3822.6 | 3466.9 | 3267.1 | 3238.4 | 3197.3 |
| 60° | 7199.2 | 7190.9 | 7097.9 | 6958.4 | 6701.2 | 6301.7 | 5738.0 | 5146.9 | 4687.2 | 4613.4 | 4618.8 |
| 62.5° | 7619.2 | 7598.7 | 7553.5 | 7519.3 | 7431.7 | 7268.9 | 7163.6 | 6998.0 | 6775.0 | 6724.4 | 6404.3 |
| 65° | 7854.5 | 7851.8 | 7876.4 | 7905.1 | 7899.6 | 7948.9 | 8002.3 | 8318.3 | 8689.1 | 8672.6 | 8334.7 |
| 67.5° | 7504.3 | 7527.5 | 7656.1 | 7853.1 | 8059.7 | 8278.6 | 8686.3 | 9319.8 | 9778.1 | 9778.1 | 9481.2 |
| 70° | 5394.6 | 5390.5 | 5732.5 | 6356.4 | 6911.8 | 7730.0 | 8481.1 | 9525.0 | 10274.7 | 10314.4 | 9999.7 |
| 72.5° | 3232.9 | 3308.2 | 3518.9 | 3802.1 | 4274.1 | 5264.6 | 6661.5 | 8537.2 | 9583.8 | 9626.2 | 9250.0 |
| 75° | 2271.1 | 2215.0 | 2206.8 | 2223.2 | 2303.9 | 2547.5 | 3316.4 | 5240.0 | 6947.4 | 7013.1 | 6649.2 |
| 77.5° | 1453.0 | 1440.7 | 1446.1 | 1463.9 | 1468.0 | 1491.3 | 1528.2 | 1796.4 | 3220.6 | 3535.3 | 3518.9 |
| 80° | 1253.2 | 1249.1 | 1250.5 | 1230.0 | 1190.3 | 1175.2 | 1221.7 | 1184.8 | 1150.6 | 1198.5 | 1132.8 |
| 82.5° | 840.0 | 855.1 | 879.7 | 912.5 | 991.9 | 1019.3 | 1004.2 | 997.4 | 889.3 | 864.7 | 767.5 |
| 85° | 622.5 | 614.3 | 623.9 | 623.9 | 603.4 | 582.8 | 597.9 | 582.8 | 515.8 | 483.0 | 426.9 |
| 87.5° | 336.6 | 337.9 | 365.3 | 376.2 | 374.9 | 320.1 | 264.1 | 228.5 | 206.6 | 191.5 | 161.4 |
| 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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CATALOG NUMBER: EMM-E04-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 |
| 2.5° | 2347.7 | 2343.6 | 2345.0 | 2345.0 | 2343.6 | 2346.4 | 2342.3 | 2340.9 | 2342.3 | 2342.3 | 2342.3 |
| 5° | 2324.5 | 2319.0 | 2319.0 | 2317.6 | 2314.9 | 2314.9 | 2309.4 | 2308.1 | 2305.3 | 2309.4 | 2306.7 |
| 7.5° | 2291.6 | 2283.4 | 2276.6 | 2271.1 | 2268.4 | 2264.3 | 2257.4 | 2254.7 | 2252.0 | 2250.6 | 2247.9 |
| 10° | 2252.0 | 2242.4 | 2228.7 | 2217.8 | 2212.3 | 2201.3 | 2193.1 | 2182.2 | 2182.2 | 2176.7 | 2171.2 |
| 12.5° | 2204.1 | 2190.4 | 2176.7 | 2161.7 | 2152.1 | 2137.0 | 2123.4 | 2111.0 | 2101.5 | 2089.2 | 2080.9 |
| 15° | 2156.2 | 2135.7 | 2120.6 | 2105.6 | 2087.8 | 2067.3 | 2050.8 | 2031.7 | 2013.9 | 1994.7 | 1989.3 |
| 17.5° | 2104.2 | 2087.8 | 2074.1 | 2056.3 | 2037.2 | 2012.5 | 1990.6 | 1959.2 | 1937.3 | 1914.0 | 1896.2 |
| 20° | 2070.0 | 2050.8 | 2035.8 | 2019.4 | 1998.9 | 1970.1 | 1941.4 | 1905.8 | 1873.0 | 1838.8 | 1812.8 |
| 22.5° | 2052.2 | 2020.7 | 2007.1 | 1992.0 | 1971.5 | 1940.0 | 1907.2 | 1863.4 | 1822.4 | 1777.2 | 1736.2 |
| 25° | 2059.1 | 2016.6 | 1989.3 | 1972.9 | 1955.1 | 1923.6 | 1881.2 | 1831.9 | 1785.4 | 1728.0 | 1681.4 |
| 27.5° | 2089.2 | 2031.7 | 1989.3 | 1961.9 | 1942.8 | 1909.9 | 1866.1 | 1810.0 | 1754.0 | 1693.8 | 1637.7 |
| 30° | 2128.8 | 2056.3 | 2001.6 | 1961.9 | 1933.2 | 1897.6 | 1849.7 | 1789.5 | 1728.0 | 1660.9 | 1596.6 |
| 32.5° | 2174.0 | 2085.0 | 2019.4 | 1964.6 | 1918.1 | 1873.0 | 1823.7 | 1760.8 | 1696.5 | 1625.4 | 1562.4 |
| 35° | 2209.5 | 2106.9 | 2031.7 | 1959.2 | 1897.6 | 1841.5 | 1784.1 | 1725.2 | 1660.9 | 1593.9 | 1526.8 |
| 37.5° | 2230.1 | 2120.6 | 2031.7 | 1940.0 | 1864.8 | 1805.9 | 1745.7 | 1688.3 | 1626.7 | 1561.0 | 1502.2 |
| 40° | 2238.3 | 2126.1 | 2023.5 | 1918.1 | 1830.6 | 1763.5 | 1707.4 | 1648.6 | 1593.9 | 1536.4 | 1484.4 |
| 42.5° | 2234.2 | 2122.0 | 2012.5 | 1897.6 | 1803.2 | 1730.7 | 1669.1 | 1614.4 | 1569.3 | 1521.4 | 1477.6 |
| 45° | 2217.8 | 2108.3 | 2001.6 | 1888.0 | 1793.6 | 1719.8 | 1656.8 | 1604.8 | 1562.4 | 1518.6 | 1484.4 |
| 47.5° | 2204.1 | 2102.8 | 2008.4 | 1911.3 | 1821.0 | 1745.7 | 1677.3 | 1619.9 | 1584.3 | 1550.1 | 1528.2 |
| 50° | 2215.0 | 2117.9 | 2023.5 | 1931.8 | 1844.3 | 1767.6 | 1697.9 | 1644.5 | 1624.0 | 1618.5 | 1611.7 |
| 52.5° | 2245.1 | 2149.3 | 2070.0 | 2005.7 | 1966.0 | 1937.3 | 1866.1 | 1853.8 | 1836.0 | 1826.5 | 1803.2 |
| 55° | 2440.8 | 2401.1 | 2472.2 | 2550.2 | 2563.9 | 2650.1 | 2684.3 | 2687.0 | 2656.9 | 2550.2 | 2301.2 |
| 57.5° | 3237.0 | 3335.5 | 3365.6 | 3546.2 | 3595.5 | 3557.2 | 3505.2 | 3502.4 | 3409.4 | 3268.5 | 2905.9 |
| 60° | 4659.9 | 4607.9 | 4543.6 | 4425.9 | 4315.1 | 4196.1 | 4031.9 | 3906.0 | 3787.0 | 3570.8 | 3189.1 |
| 62.5° | 6148.4 | 5695.6 | 5365.8 | 5027.9 | 4754.3 | 4514.9 | 4276.8 | 4074.3 | 3881.4 | 3581.8 | 3172.7 |
| 65° | 7439.9 | 6517.8 | 5848.8 | 5341.2 | 4917.1 | 4566.9 | 4250.8 | 3974.4 | 3730.9 | 3356.0 | 2941.5 |
| 67.5° | 8280.0 | 6954.3 | 5954.1 | 5196.2 | 4597.0 | 4150.9 | 3685.8 | 3249.3 | 3009.9 | 2707.6 | 2496.9 |
| 70° | 8494.8 | 6646.4 | 5250.9 | 4279.5 | 3472.3 | 2940.1 | 2391.5 | 1915.4 | 1695.1 | 1610.3 | 1617.1 |
| 72.5° | 7663.0 | 5253.7 | 3722.7 | 2722.6 | 2131.6 | 1689.7 | 1373.6 | 1056.2 | 825.0 | 692.3 | 675.9 |
| 75° | 5006.0 | 2923.7 | 1767.6 | 1231.3 | 979.6 | 779.8 | 614.3 | 517.2 | 446.0 | 359.8 | 301.0 |
| 77.5° | 1892.1 | 1113.7 | 793.5 | 647.1 | 478.8 | 333.8 | 259.9 | 218.9 | 201.1 | 195.6 | 176.5 |
| 80° | 970.0 | 773.0 | 552.7 | 363.9 | 254.5 | 203.9 | 171.0 | 145.0 | 134.1 | 128.6 | 131.3 |
| 82.5° | 654.0 | 487.1 | 305.1 | 218.9 | 176.5 | 151.9 | 120.4 | 101.2 | 90.3 | 88.9 | 95.8 |
| 85° | 363.9 | 243.5 | 177.9 | 147.8 | 130.0 | 113.6 | 91.7 | 75.2 | 69.8 | 73.9 | 86.2 |
| 87.5° | 113.6 | 112.2 | 80.7 | 65.7 | 68.4 | 58.8 | 43.8 | 32.8 | 32.8 | 42.4 | 60.2 |
| 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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CATALOG NUMBER: EMM-E04-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 | 2354.6 |
| 2.5° | 2342.3 | 2345.0 | 2350.5 | 2346.4 | 2347.7 | 2349.1 | 2353.2 | 2358.7 | 2354.6 | 2351.8 | 2360.0 |
| 5° | 2309.4 | 2309.4 | 2316.3 | 2313.5 | 2319.0 | 2324.5 | 2327.2 | 2336.8 | 2334.0 | 2331.3 | 2342.3 |
| 7.5° | 2249.2 | 2250.6 | 2260.2 | 2257.4 | 2268.4 | 2269.7 | 2280.7 | 2288.9 | 2288.9 | 2294.4 | 2303.9 |
| 10° | 2172.6 | 2172.6 | 2180.8 | 2182.2 | 2189.0 | 2194.5 | 2206.8 | 2221.9 | 2224.6 | 2234.2 | 2247.9 |
| 12.5° | 2086.4 | 2083.7 | 2090.5 | 2090.5 | 2096.0 | 2102.8 | 2116.5 | 2134.3 | 2137.0 | 2152.1 | 2169.9 |
| 15° | 1979.7 | 1975.6 | 1972.9 | 1975.6 | 1978.3 | 1979.7 | 2000.2 | 2018.0 | 2029.0 | 2045.4 | 2063.2 |
| 17.5° | 1877.1 | 1862.0 | 1855.2 | 1855.2 | 1856.6 | 1856.6 | 1864.8 | 1885.3 | 1900.3 | 1926.3 | 1952.3 |
| 20° | 1785.4 | 1759.4 | 1749.9 | 1728.0 | 1723.9 | 1714.3 | 1721.1 | 1744.4 | 1771.7 | 1792.3 | 1812.8 |
| 22.5° | 1699.2 | 1671.9 | 1644.5 | 1618.5 | 1598.0 | 1585.7 | 1598.0 | 1613.0 | 1622.6 | 1639.0 | 1644.5 |
| 25° | 1633.6 | 1588.4 | 1550.1 | 1509.1 | 1487.2 | 1476.2 | 1474.9 | 1473.5 | 1465.3 | 1462.5 | 1462.5 |
| 27.5° | 1581.6 | 1528.2 | 1470.8 | 1425.6 | 1395.5 | 1375.0 | 1351.7 | 1335.3 | 1314.8 | 1287.4 | 1273.7 |
| 30° | 1537.8 | 1480.3 | 1417.4 | 1364.0 | 1325.7 | 1286.1 | 1238.2 | 1201.2 | 1164.3 | 1131.5 | 1102.7 |
| 32.5° | 1498.1 | 1439.3 | 1377.7 | 1321.6 | 1256.0 | 1187.5 | 1127.3 | 1083.6 | 1019.3 | 975.5 | 938.5 |
| 35° | 1468.0 | 1409.2 | 1351.7 | 1277.8 | 1187.5 | 1100.0 | 1022.0 | 957.7 | 892.0 | 834.6 | 785.3 |
| 37.5° | 1446.1 | 1396.9 | 1335.3 | 1235.4 | 1121.9 | 1016.5 | 934.4 | 857.8 | 779.8 | 701.9 | 640.3 |
| 40° | 1439.3 | 1396.9 | 1318.9 | 1188.9 | 1058.9 | 945.4 | 851.0 | 756.6 | 670.4 | 586.9 | 524.0 |
| 42.5° | 1443.4 | 1398.2 | 1292.9 | 1147.9 | 1007.0 | 883.8 | 777.1 | 667.7 | 565.0 | 476.1 | 413.2 |
| 45° | 1458.4 | 1398.2 | 1265.5 | 1102.7 | 959.1 | 827.7 | 700.5 | 570.5 | 451.5 | 380.3 | 353.0 |
| 47.5° | 1503.6 | 1407.8 | 1243.6 | 1069.9 | 916.7 | 766.2 | 614.3 | 466.5 | 365.3 | 335.2 | 335.2 |
| 50° | 1573.4 | 1436.5 | 1240.9 | 1045.3 | 868.8 | 695.0 | 507.6 | 368.0 | 322.9 | 321.5 | 329.7 |
| 52.5° | 1692.4 | 1487.2 | 1254.6 | 1028.8 | 818.1 | 599.2 | 395.4 | 317.4 | 307.8 | 316.0 | 328.4 |
| 55° | 1923.6 | 1576.1 | 1273.7 | 998.7 | 733.3 | 469.3 | 324.2 | 301.0 | 305.1 | 314.7 | 325.6 |
| 57.5° | 2346.4 | 1755.3 | 1294.3 | 934.4 | 593.8 | 355.7 | 294.2 | 295.5 | 302.4 | 311.9 | 321.5 |
| 60° | 2637.8 | 1977.0 | 1335.3 | 826.4 | 441.9 | 294.2 | 281.8 | 292.8 | 301.0 | 307.8 | 316.0 |
| 62.5° | 2662.4 | 2057.7 | 1365.4 | 704.6 | 328.4 | 268.2 | 270.9 | 287.3 | 298.3 | 301.0 | 305.1 |
| 65° | 2514.6 | 1953.7 | 1279.2 | 581.5 | 272.3 | 254.5 | 264.1 | 279.1 | 290.0 | 291.4 | 295.5 |
| 67.5° | 2191.8 | 1736.2 | 1091.8 | 441.9 | 249.0 | 244.9 | 255.8 | 265.4 | 273.6 | 280.5 | 285.9 |
| 70° | 1697.9 | 1417.4 | 878.3 | 343.4 | 231.2 | 229.8 | 239.4 | 250.4 | 258.6 | 265.4 | 273.6 |
| 72.5° | 894.8 | 1007.0 | 654.0 | 275.0 | 212.1 | 213.4 | 223.0 | 232.6 | 238.1 | 244.9 | 253.1 |
| 75° | 277.7 | 426.9 | 403.6 | 220.3 | 188.8 | 194.3 | 199.7 | 208.0 | 217.5 | 221.6 | 225.7 |
| 77.5° | 164.2 | 173.8 | 210.7 | 172.4 | 164.2 | 168.3 | 175.1 | 182.0 | 188.8 | 194.3 | 198.4 |
| 80° | 132.7 | 135.4 | 136.8 | 136.8 | 136.8 | 142.3 | 147.8 | 157.3 | 162.8 | 165.5 | 166.9 |
| 82.5° | 104.0 | 110.8 | 112.2 | 109.5 | 113.6 | 119.0 | 121.8 | 127.2 | 128.6 | 131.3 | 134.1 |
| 85° | 86.2 | 84.8 | 87.6 | 88.9 | 83.5 | 83.5 | 80.7 | 80.7 | 86.2 | 95.8 | 97.1 |
| 87.5° | 67.0 | 58.8 | 47.9 | 45.1 | 42.4 | 39.7 | 36.9 | 36.9 | 38.3 | 43.8 | 47.9 |
| 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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| 47.5° | 339.3 | 344.8 | 350.2 | 355.7 | 357.1 |
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| 52.5° | 336.6 | 340.7 | 342.0 | 344.8 | 347.5 |
| 55° | 333.8 | 335.2 | 335.2 | 336.6 | 339.3 |
| 57.5° | 327.0 | 328.4 | 325.6 | 327.0 | 332.5 |
| 60° | 320.1 | 321.5 | 318.8 | 321.5 | 322.9 |
| 62.5° | 310.6 | 310.6 | 309.2 | 310.6 | 311.9 |
| 65° | 299.6 | 295.5 | 298.3 | 296.9 | 298.3 |
| 67.5° | 285.9 | 280.5 | 279.1 | 279.1 | 280.5 |
| 70° | 266.8 | 262.7 | 261.3 | 264.1 | 266.8 |
| 72.5° | 243.5 | 246.3 | 250.4 | 254.5 | 261.3 |
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