

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P152369

Luminaire Tested: **TLM-E03-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E03-LED-E1-SL4-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

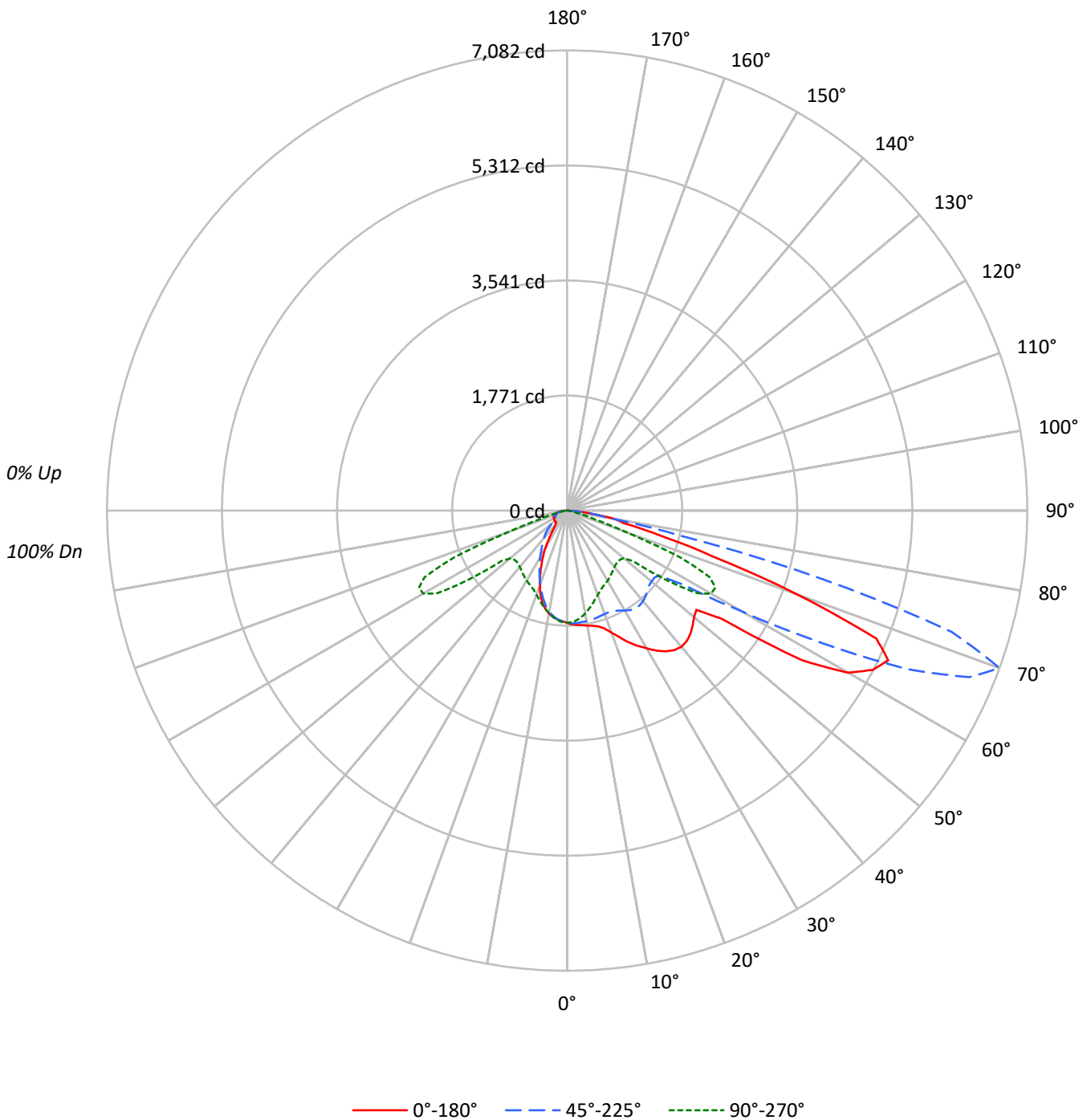
Lumens per Lamp: N/A
Luminaire Lumens: 8094.4 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): 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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	66	61	59					59			
3	83	70	59	51	80	68	58	51	65	57	50	62	55	49	59	53	48	45					45			
4	74	60	49	41	72	58	48	40	55	47	40	53	45	39	51	44	39	36					36			
5	67	52	41	33	65	51	41	33	48	40	33	46	38	32	44	37	32	29					29			
6	61	46	36	28	59	45	35	28	43	34	28	41	33	27	39	32	27	25					25			
7	57	41	31	24	55	40	31	24	39	30	24	37	29	23	36	29	23	21					21			
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18					18			
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16					16			
10	46	31	23	17	44	31	22	17	30	22	17	29	21	16	28	21	16	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37181	37181	37181
5°	38172	36614	36376
10°	39293	35100	35160
15°	41140	33241	32753
20°	45782	31553	28059
25°	53089	30763	22433
30°	60848	30946	16757
35°	69465	31179	10899
40°	76875	31829	7520
45°	81669	33617	7508
50°	85406	38207	8349
55°	108668	69931	9120
60°	214831	109990	10226
65°	277710	123293	11492
70°	236282	58292	12935
75°	124208	21426	15953
80°	92398	11666	17319
85°	53476	11288	17364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.0
10°-20°	441.7	5.5
20°-30°	653.9	8.1
30°-40°	826.3	10.2
40°-50°	934.6	11.5
50°-60°	1329.9	16.4
60°-70°	2476.8	30.6
70°-80°	1135.1	14.0
80°-90°	134.8	1.7
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°-30°	1257.0	15.5
0°-40°	2083.3	25.7
0°-60°	4347.8	53.7
0°-90°	8094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8094.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1727	1727	1727	1727	1727	
5°	1766	1737	1694	1681	1683	169
15°	1846	1712	1492	1412	1470	531
25°	2235	1703	1295	1009	944	1038
35°	2643	1840	1186	676	415	1652
45°	2682	1747	1104	442	247	2064
55°	2895	1737	1863	225	243	3042
65°	5452	5773	2420	201	226	5027
75°	1493	4059	258	158	192	1836
85°	216	190	46	72	70	272
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1
2.5°	1753.6	1758.2	1752.7	1751.8	1751.8	1750.9	1745.4	1744.5	1737.2	1738.1	1739.9
5°	1766.4	1768.2	1764.6	1763.7	1761.9	1758.2	1753.6	1748.2	1742.7	1737.2	1732.6
7.5°	1779.2	1777.4	1774.6	1774.6	1771.9	1766.4	1757.3	1750.0	1738.1	1731.7	1723.5
10°	1797.5	1794.7	1791.1	1789.3	1784.7	1776.5	1763.7	1753.6	1739.0	1726.2	1712.5
12.5°	1814.8	1813.9	1808.4	1805.7	1798.4	1790.2	1774.6	1759.1	1739.9	1719.8	1701.6
15°	1845.9	1842.2	1836.7	1831.3	1819.4	1808.4	1784.7	1766.4	1739.0	1712.5	1684.2
17.5°	1899.8	1893.4	1887.9	1876.0	1861.4	1842.2	1807.5	1776.5	1739.0	1700.7	1668.7
20°	1998.4	1984.7	1977.4	1961.9	1936.3	1901.6	1847.7	1797.5	1741.8	1692.4	1649.5
22.5°	2109.8	2100.7	2090.7	2080.6	2040.4	1990.2	1917.1	1842.2	1758.2	1688.8	1634.0
25°	2235.0	2223.1	2217.6	2200.3	2162.8	2105.3	2005.7	1901.6	1795.6	1703.4	1634.0
27.5°	2346.4	2342.7	2341.8	2321.7	2286.1	2218.5	2100.7	1975.6	1846.8	1733.5	1647.7
30°	2447.8	2444.1	2442.3	2431.3	2390.2	2309.9	2182.0	2041.3	1902.5	1775.6	1673.3
32.5°	2555.6	2543.7	2538.2	2517.2	2470.6	2376.5	2230.4	2084.3	1946.3	1816.7	1701.6
35°	2643.2	2633.2	2622.2	2592.1	2526.3	2414.9	2251.4	2098.9	1963.7	1839.5	1716.2
37.5°	2707.2	2697.1	2681.6	2643.2	2561.9	2427.7	2250.5	2094.3	1957.3	1835.8	1718.9
40°	2735.5	2725.4	2709.0	2660.6	2568.3	2420.4	2233.1	2073.3	1938.1	1816.7	1708.0
42.5°	2724.5	2717.2	2696.2	2649.6	2548.2	2387.5	2198.4	2034.0	1901.6	1785.6	1683.3
45°	2682.5	2677.0	2656.9	2607.6	2502.6	2334.5	2147.3	1984.7	1857.8	1747.2	1650.4
47.5°	2619.5	2617.7	2597.6	2549.2	2445.0	2281.5	2094.3	1936.3	1813.9	1709.8	1623.0
50°	2550.1	2540.9	2530.9	2486.1	2391.2	2235.9	2056.0	1906.2	1789.3	1696.1	1611.2
52.5°	2506.2	2503.5	2494.4	2454.2	2362.8	2209.4	2038.6	1895.2	1787.4	1693.4	1604.8
55°	2895.3	2901.7	2817.7	2643.2	2489.8	2282.5	2090.7	1950.9	1832.2	1737.2	1672.3
57.5°	4282.7	4254.4	4110.1	3763.9	3373.0	2857.0	2485.2	2259.6	2112.6	2129.0	2161.9
60°	4989.6	4984.2	4957.7	4823.4	4563.1	4170.4	3734.7	3235.1	3076.2	3093.5	3106.3
62.5°	5305.7	5313.9	5334.0	5283.7	5215.2	5101.1	4883.7	4682.7	4469.9	4390.5	4177.7
65°	5451.8	5466.4	5512.1	5540.4	5566.9	5587.0	5672.8	5908.5	6063.7	5773.3	5097.4
67.5°	5149.5	5219.8	5370.5	5517.5	5649.1	5836.3	6126.8	6673.9	7054.7	6697.6	5717.6
70°	3753.9	3849.8	4022.4	4477.2	4963.1	5387.9	5950.5	6783.5	7358.0	7082.1	5871.0
72.5°	2353.7	2380.2	2456.9	2624.1	2984.8	3530.1	4513.8	5763.2	6426.3	6206.2	4962.2
75°	1493.3	1502.5	1499.7	1538.1	1599.3	1718.0	2107.1	3404.1	4402.3	4058.9	2765.6
77.5°	889.6	903.3	908.8	920.7	949.9	991.9	1023.9	1158.1	1845.9	1792.0	1003.8
80°	745.3	756.3	747.1	744.4	726.1	713.3	728.9	713.3	662.2	637.5	587.3
82.5°	394.6	393.7	390.9	417.4	471.3	513.3	545.3	538.0	486.8	414.7	351.6
85°	216.5	223.8	223.8	232.9	224.7	225.6	232.9	245.7	227.4	190.0	155.3
87.5°	18.3	28.3	22.8	28.3	38.4	27.4	26.5	26.5	22.8	16.4	14.6
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1
2.5°	1735.4	1733.5	1729.9	1727.1	1727.1	1722.6	1719.8	1718.0	1717.1	1713.4	1713.4
5°	1729.9	1723.5	1717.1	1712.5	1709.8	1705.2	1697.9	1694.3	1689.7	1686.0	1684.2
7.5°	1718.0	1706.1	1696.1	1688.8	1679.7	1672.3	1663.2	1655.0	1646.8	1643.1	1641.3
10°	1699.7	1684.2	1668.7	1655.0	1642.2	1629.4	1617.5	1605.7	1595.6	1588.3	1581.0
12.5°	1682.4	1658.6	1638.6	1618.5	1598.4	1582.8	1566.4	1549.0	1534.4	1520.7	1517.1
15°	1658.6	1631.2	1605.7	1581.0	1556.3	1530.8	1510.7	1491.5	1467.8	1452.2	1440.4
17.5°	1636.7	1603.8	1572.8	1543.6	1513.4	1486.9	1456.8	1431.2	1407.5	1383.7	1366.4
20°	1613.0	1577.4	1544.5	1511.6	1478.7	1444.9	1410.2	1377.3	1348.1	1319.8	1291.5
22.5°	1592.0	1555.4	1523.5	1487.8	1451.3	1413.0	1372.8	1331.7	1297.9	1261.3	1228.5
25°	1579.2	1539.0	1506.1	1471.4	1431.2	1389.2	1343.5	1295.1	1254.0	1212.0	1172.7
27.5°	1579.2	1527.1	1493.3	1458.6	1417.5	1372.8	1322.5	1269.6	1223.0	1176.4	1128.0
30°	1592.9	1528.9	1483.3	1446.7	1404.7	1356.3	1300.6	1244.9	1193.7	1138.9	1092.4
32.5°	1605.7	1532.6	1476.0	1429.4	1381.0	1333.5	1276.9	1217.5	1160.9	1108.8	1059.5
35°	1613.9	1532.6	1462.3	1402.9	1348.1	1301.5	1245.8	1186.4	1128.9	1077.8	1032.1
37.5°	1614.8	1525.3	1440.4	1372.8	1315.2	1266.8	1213.8	1158.1	1103.3	1055.8	1017.5
40°	1605.7	1510.7	1418.4	1340.8	1280.5	1231.2	1182.8	1132.6	1083.2	1044.0	1011.1
42.5°	1589.2	1495.2	1397.4	1315.2	1252.2	1201.1	1156.3	1113.4	1070.4	1036.7	1009.3
45°	1564.6	1474.1	1378.2	1299.7	1237.6	1183.7	1139.9	1104.2	1067.7	1039.4	1012.0
47.5°	1542.6	1466.8	1384.6	1309.7	1244.9	1189.2	1144.4	1114.3	1086.0	1066.8	1029.3
50°	1538.1	1463.2	1387.4	1318.0	1252.2	1195.6	1156.3	1140.8	1132.6	1120.7	1063.1
52.5°	1525.3	1462.3	1407.5	1369.1	1327.1	1300.6	1259.5	1274.1	1265.0	1223.0	1118.9
55°	1659.6	1677.8	1729.0	1802.0	1869.6	1885.2	1880.6	1863.2	1771.0	1523.5	1253.1
57.5°	2281.5	2384.8	2481.6	2524.5	2519.0	2470.6	2435.9	2365.6	2232.2	1930.8	1518.0
60°	3145.6	3162.0	3110.9	3035.1	2907.2	2800.3	2686.2	2554.6	2361.0	2066.0	1680.6
62.5°	3941.1	3720.1	3492.7	3278.9	3084.4	2914.5	2755.6	2572.0	2319.9	2012.1	1659.6
65°	4502.8	4035.2	3676.2	3369.3	3094.4	2857.0	2658.8	2420.4	2136.3	1858.7	1538.1
67.5°	4792.3	4075.4	3524.6	3097.2	2707.2	2378.4	2114.4	1882.4	1671.4	1550.0	1346.3
70°	4469.0	3458.9	2691.6	2208.5	1741.8	1396.5	1103.3	926.1	864.9	980.0	1019.3
72.5°	3330.1	2251.4	1601.1	1238.5	949.0	756.3	580.0	455.8	370.8	389.1	505.1
75°	1574.6	971.8	686.8	522.4	415.6	344.3	281.3	257.6	215.6	179.0	168.1
77.5°	612.9	446.6	369.0	270.4	191.8	154.4	131.5	127.0	129.7	126.0	124.2
80°	466.7	316.0	198.2	145.2	125.1	110.5	97.7	94.1	95.9	100.5	105.0
82.5°	260.3	162.6	120.6	105.0	94.1	80.4	73.1	67.6	68.5	74.0	84.0
85°	100.5	78.5	72.2	69.4	64.8	52.1	44.8	45.7	52.1	62.1	62.1
87.5°	11.0	11.0	14.6	11.0	11.0	11.0	10.0	11.9	12.8	16.4	19.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1	1727.1
2.5°	1711.6	1711.6	1711.6	1709.8	1710.7	1707.1	1707.1	1704.3	1708.9	1706.1	1705.2
5°	1685.1	1684.2	1680.6	1680.6	1680.6	1680.6	1683.3	1676.0	1681.5	1681.5	1678.7
7.5°	1640.4	1640.4	1630.3	1635.8	1634.0	1636.7	1640.4	1636.7	1642.2	1645.9	1643.1
10°	1578.3	1578.3	1570.0	1576.4	1573.7	1580.1	1586.5	1582.8	1586.5	1592.0	1593.8
12.5°	1509.8	1506.1	1498.8	1501.5	1501.5	1505.2	1507.9	1512.5	1517.1	1524.4	1528.0
15°	1430.3	1424.8	1415.7	1415.7	1410.2	1412.0	1417.5	1419.3	1428.5	1438.5	1450.4
17.5°	1349.0	1335.3	1325.3	1313.4	1304.3	1311.6	1318.0	1322.5	1329.8	1345.4	1353.6
20°	1272.3	1244.9	1225.7	1210.2	1200.1	1204.7	1212.9	1218.4	1224.8	1228.5	1231.2
22.5°	1196.5	1165.4	1138.9	1119.8	1103.3	1107.9	1104.2	1101.5	1106.1	1094.2	1093.3
25°	1130.7	1094.2	1058.6	1035.7	1015.6	1009.3	990.1	985.5	972.7	962.7	955.4
27.5°	1083.2	1035.7	996.5	970.0	938.0	914.3	889.6	864.9	851.2	834.8	826.6
30°	1045.8	995.6	949.0	904.2	862.2	825.7	792.8	760.8	738.9	715.2	699.6
32.5°	1011.1	964.5	907.9	846.7	790.0	748.9	706.0	669.5	634.8	603.7	580.9
35°	987.3	935.3	863.1	788.2	724.3	675.9	630.2	578.2	536.1	495.9	471.3
37.5°	974.5	910.6	822.0	738.9	667.7	612.9	556.2	495.9	444.8	407.4	369.9
40°	964.5	885.9	785.5	695.1	620.2	554.4	488.6	417.4	360.8	321.5	292.3
42.5°	953.5	858.5	753.5	660.4	577.2	500.5	421.1	345.2	291.4	264.0	251.2
45°	941.7	834.8	723.4	627.5	535.2	442.1	350.7	280.4	248.4	239.3	239.3
47.5°	938.9	819.3	701.5	595.5	487.7	374.5	285.9	242.0	232.9	234.7	238.4
50°	949.9	814.7	682.3	558.1	424.7	303.2	242.0	227.4	229.3	234.7	240.2
52.5°	976.4	818.4	662.2	506.0	349.8	250.3	223.8	222.9	228.3	236.6	242.0
55°	1021.1	818.4	623.8	428.4	279.5	224.7	217.4	221.0	228.3	235.6	240.2
57.5°	1117.0	810.1	556.2	342.5	233.8	215.6	215.6	220.1	226.5	233.8	237.5
60°	1231.2	799.2	461.2	264.9	211.0	208.2	214.6	220.1	225.6	232.0	235.6
62.5°	1238.5	770.9	365.3	219.2	199.1	203.7	213.7	221.0	222.9	227.4	232.0
65°	1138.0	672.2	290.4	196.4	193.6	200.9	211.0	216.5	217.4	219.2	223.8
67.5°	996.5	548.0	234.7	185.4	188.2	196.4	201.9	206.4	209.2	213.7	214.6
70°	818.4	440.2	200.9	174.4	177.2	186.3	190.9	195.5	200.9	206.4	203.7
72.5°	580.0	342.5	176.3	162.6	166.2	174.4	179.9	183.6	188.2	193.6	190.0
75°	246.6	239.3	152.5	147.0	152.5	158.0	163.5	169.0	173.5	176.3	176.3
77.5°	126.0	140.7	131.5	131.5	135.2	140.7	145.2	150.7	153.4	156.2	159.8
80°	106.9	108.7	110.5	114.2	117.8	123.3	127.9	132.4	133.3	134.3	136.1
82.5°	88.6	92.2	94.1	99.6	102.3	104.1	106.9	106.9	108.7	108.7	105.9
85°	63.9	68.5	71.2	72.2	71.2	72.2	73.1	74.9	79.5	79.5	75.8
87.5°	18.3	17.4	21.9	22.8	24.7	28.3	32.0	38.4	40.2	42.0	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P152369

CATALOG NUMBER: TLM-E03-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1727.1	1727.1	1727.1	1727.1
2.5°	1704.3	1706.1	1702.5	1703.4
5°	1678.7	1682.4	1677.8	1683.3
7.5°	1645.9	1651.3	1650.4	1649.5
10°	1598.4	1605.7	1605.7	1608.4
12.5°	1538.1	1542.6	1546.3	1548.1
15°	1456.8	1465.0	1469.6	1469.6
17.5°	1359.1	1364.5	1367.3	1363.6
20°	1234.8	1233.0	1233.9	1224.8
22.5°	1091.5	1094.2	1086.0	1087.8
25°	950.8	946.2	949.9	944.4
27.5°	814.7	815.6	805.6	810.1
30°	685.0	680.4	667.7	674.1
32.5°	559.9	548.0	534.3	526.1
35°	442.1	423.8	417.4	414.7
37.5°	347.1	327.0	320.6	313.3
40°	275.8	268.5	265.8	267.6
42.5°	247.5	247.5	249.3	250.3
45°	240.2	243.0	245.7	246.6
47.5°	241.1	243.9	247.5	248.4
50°	243.0	245.7	248.4	249.3
52.5°	243.9	243.9	245.7	246.6
55°	242.0	241.1	242.0	243.0
57.5°	238.4	236.6	237.5	240.2
60°	236.6	233.8	235.6	237.5
62.5°	232.0	231.1	232.9	233.8
65°	221.9	222.9	225.6	225.6
67.5°	212.8	213.7	214.6	215.6
70°	201.9	202.8	204.6	205.5
72.5°	189.1	192.7	195.5	199.1
75°	179.0	182.7	188.2	191.8
77.5°	161.7	164.4	170.8	175.4
80°	137.0	136.1	137.0	139.7
82.5°	105.0	105.0	104.1	103.2
85°	74.0	73.1	70.3	70.3
87.5°	40.2	39.3	38.4	36.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)