

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: P152951

Luminaire Tested: **TLM-E04-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152951
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E04-LED-E1-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

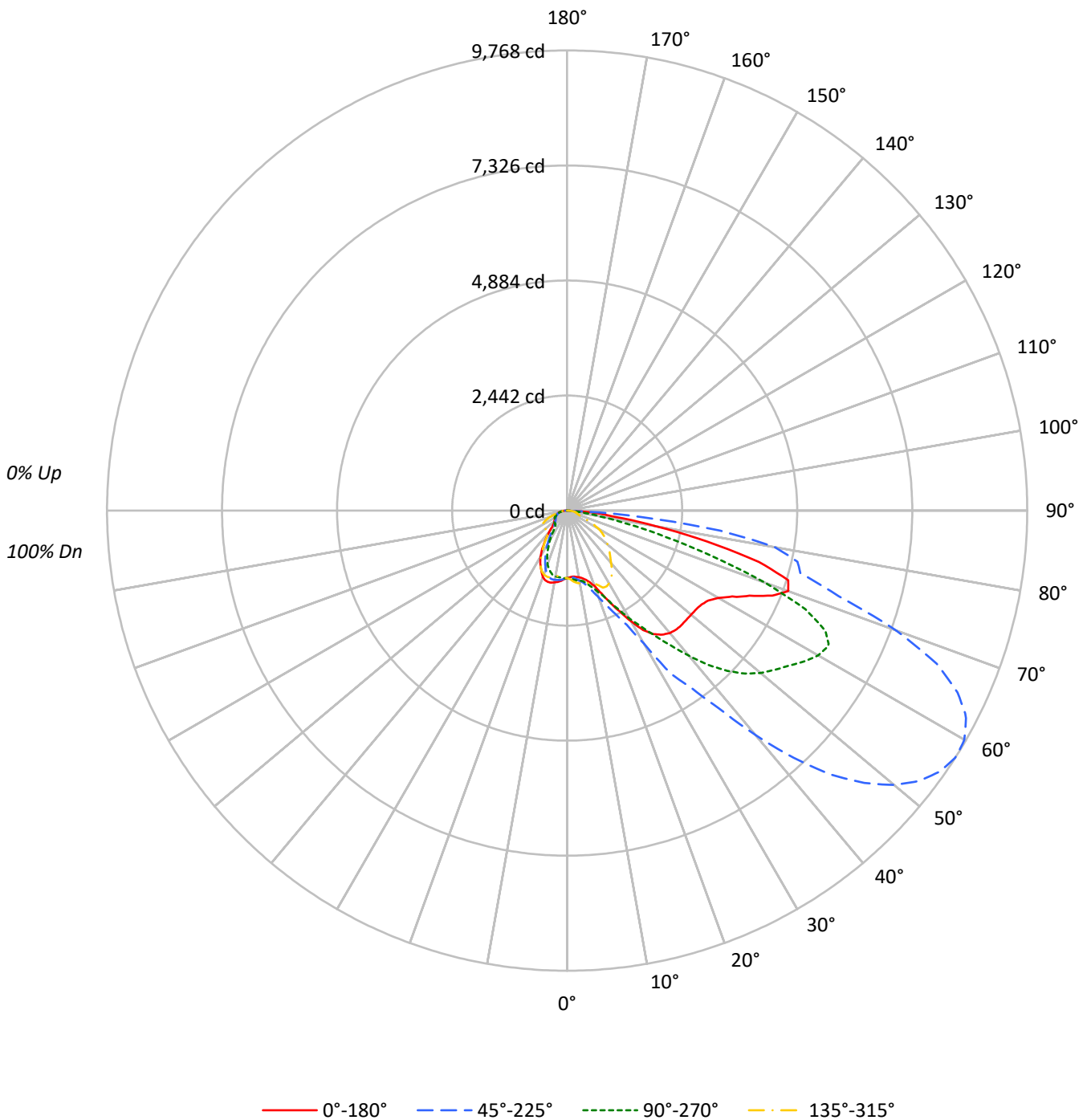
Lumens per Lamp: N/A
Luminaire Lumens: 11420.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

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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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	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23057	23057	23057	23057
5°	22660	23652	24160	23057
10°	23434	24596	25243	23145
15°	25281	26578	26101	22528
20°	29215	30853	25730	20771
25°	38246	37786	23477	17535
30°	50405	49034	20938	13579
35°	62787	63460	16771	9285
40°	71158	84385	12281	8120
45°	78021	109293	9231	8518
50°	85898	133975	8823	8720
55°	97372	160754	9005	8929
60°	119087	197687	9803	9803
65°	162424	230036	10351	10195
70°	234567	209375	10926	10794
75°	261648	135542	12061	11378
80°	178855	65817	13794	12277
85°	116000	32037	16645	15134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.2
10°-20°	435.1	3.8
20°-30°	773.0	6.8
30°-40°	1217.3	10.7
40°-50°	1791.4	15.7
50°-60°	2379.5	20.8
60°-70°	2621.1	23.0
70°-80°	1644.4	14.4
80°-90°	418.8	3.7
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°	1347.8	11.8
0°-40°	2565.1	22.5
0°-60°	6736.0	59.0
0°-90°	11420.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11420.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1435	1435	1435	1435	1435	
5°	1405	1467	1498	1430	1405	135
15°	1520	1598	1569	1354	1520	440
25°	2158	2132	1324	989	2158	1018
35°	3201	3236	855	473	3201	1984
45°	3434	4810	406	375	3434	2655
55°	3476	5739	322	319	3476	3153
65°	4273	6051	272	268	4273	4302
75°	4215	2184	194	183	4215	4122
85°	629	174	90	82	629	728
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1416.0	1418.8	1418.8	1417.4	1417.4	1420.1	1418.8	1417.4	1413.3	1418.8	1418.8
5°	1405.1	1407.8	1407.8	1410.6	1413.3	1416.0	1416.0	1418.8	1417.4	1422.9	1427.0
7.5°	1418.8	1421.5	1427.0	1433.8	1437.9	1447.5	1447.5	1454.3	1457.1	1461.2	1459.8
10°	1436.5	1443.4	1455.7	1466.6	1474.9	1485.8	1494.0	1503.6	1503.6	1507.7	1510.4
12.5°	1468.0	1474.9	1488.5	1502.2	1514.5	1528.2	1540.5	1550.1	1559.7	1562.4	1567.9
15°	1520.0	1528.2	1548.7	1567.9	1582.9	1600.7	1617.1	1636.3	1654.1	1658.2	1660.9
17.5°	1598.0	1614.4	1629.5	1663.7	1685.5	1708.8	1734.8	1762.2	1767.6	1796.4	1803.2
20°	1708.8	1729.3	1743.0	1785.4	1822.4	1852.5	1890.8	1922.2	1934.6	1961.9	1989.3
22.5°	1900.3	1896.2	1916.8	1959.2	1986.5	2046.7	2079.6	2112.4	2128.8	2169.9	2191.8
25°	2157.6	2179.4	2224.6	2228.7	2254.7	2324.5	2366.9	2399.7	2401.1	2413.4	2436.7
27.5°	2410.7	2501.0	2572.1	2610.4	2680.2	2744.5	2741.8	2788.3	2715.8	2730.8	2752.7
30°	2717.1	2867.6	3001.7	3092.0	3163.1	3238.4	3275.3	3301.3	3269.9	3256.2	3230.2
32.5°	3004.4	3215.1	3421.7	3581.8	3714.5	3839.0	3921.1	3958.0	4001.8	4112.6	4152.3
35°	3201.4	3499.7	3756.9	3988.1	4209.8	4408.1	4551.8	4633.9	4602.4	4587.4	4579.2
37.5°	3319.1	3683.0	4004.5	4331.5	4586.0	4882.9	5105.9	5322.1	5371.3	5285.1	5242.7
40°	3393.0	3824.0	4237.1	4622.9	4952.7	5335.7	5612.1	5936.4	6182.6	6215.5	6114.2
42.5°	3428.6	3918.4	4399.9	4836.4	5282.4	5751.7	6101.9	6494.6	6862.6	7115.7	7052.8
45°	3434.0	3979.9	4519.0	5029.3	5560.1	6117.0	6568.4	7003.5	7496.0	7929.7	7942.1
47.5°	3434.0	4026.4	4601.1	5168.8	5809.1	6434.4	6926.9	7441.3	8044.7	8557.7	8715.1
50°	3436.8	4057.9	4677.7	5278.3	5999.3	6702.5	7259.4	7866.8	8501.6	9059.8	9363.6
52.5°	3449.1	4081.2	4737.9	5356.3	6122.4	6891.3	7517.9	8218.4	8850.5	9423.8	9816.4
55°	3476.4	4114.0	4781.7	5404.2	6204.5	7014.5	7705.4	8459.2	9076.2	9657.7	10206.3
57.5°	3553.1	4171.5	4835.0	5446.6	6249.7	7095.2	7836.7	8563.2	9162.4	9768.5	10412.9
60°	3706.3	4293.2	4926.7	5531.4	6324.9	7244.3	7899.6	8493.4	9099.5	9735.7	10459.4
62.5°	3951.2	4483.4	5053.9	5675.0	6539.7	7475.5	7851.8	8285.5	8851.9	9545.5	10293.9
63°	4036.0	4524.4	5082.6	5706.5	6598.5	7517.9	7831.2	8223.9	8801.2	9485.3	10235.1
65°	4272.7	4706.4	5219.5	5865.2	6840.7	7560.3	7671.2	7903.7	8451.0	9141.9	9887.6
67.5°	4714.6	5148.3	5513.6	6133.4	7044.6	7393.4	7174.5	7203.3	7775.1	8490.7	9161.1
70°	4993.7	5510.9	5701.0	6167.6	7007.6	7145.8	6531.5	6151.2	6609.5	7424.9	8011.8
72.5°	4921.2	5515.0	5494.5	5712.0	6268.8	6397.4	5761.2	5162.0	5434.3	6043.1	6423.4
75°	4215.2	4925.3	4774.8	4731.0	4926.7	5011.5	4534.0	4442.4	4785.8	5123.7	5129.2
77.5°	3034.5	3815.7	3639.3	3386.1	3372.5	3568.1	3632.4	4233.0	4740.6	5007.4	4889.7
80°	1933.2	2780.1	2596.7	2154.8	2148.0	2402.5	2967.5	3784.3	4322.0	4471.1	4164.6
82.5°	1009.7	1819.6	1889.4	1617.1	1851.1	2272.5	2823.8	3049.6	3253.4	3274.0	2912.8
85°	629.3	1119.1	1316.2	1358.6	1671.9	2015.3	2011.2	1931.8	1841.5	1576.1	1425.6
87.5°	71.1	140.9	213.4	202.5	272.3	381.7	476.1	279.1	195.6	71.1	98.5
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1421.5	1422.9	1424.2	1424.2	1431.1	1429.7	1431.1	1433.8	1437.9	1440.7	1443.4
5°	1432.4	1432.4	1437.9	1442.0	1450.2	1455.7	1458.4	1466.6	1476.2	1473.5	1481.7
7.5°	1468.0	1466.6	1472.1	1474.9	1481.7	1491.3	1489.9	1496.7	1505.0	1507.7	1514.5
10°	1515.9	1511.8	1511.8	1509.1	1510.4	1507.7	1507.7	1507.7	1513.2	1511.8	1517.3
12.5°	1565.2	1563.8	1561.0	1552.8	1552.8	1541.9	1536.4	1529.6	1528.2	1518.6	1520.0
15°	1666.4	1666.4	1660.9	1644.5	1630.8	1621.2	1607.6	1598.0	1584.3	1566.5	1556.9
17.5°	1814.2	1795.0	1788.2	1785.4	1763.5	1755.3	1725.2	1693.8	1678.7	1654.1	1640.4
20°	1994.7	1990.6	1963.3	1949.6	1922.2	1883.9	1845.6	1804.6	1780.0	1749.9	1733.4
22.5°	2198.6	2168.5	2154.8	2134.3	2091.9	2048.1	1990.6	1935.9	1897.6	1877.1	1864.8
25°	2436.7	2406.6	2392.9	2365.5	2313.5	2267.0	2195.9	2131.6	2097.4	2063.2	2044.0
27.5°	2752.7	2724.0	2707.6	2636.4	2618.6	2542.0	2454.4	2366.9	2321.7	2271.1	2238.3
30°	3224.7	3226.1	3141.3	3055.1	2966.1	2833.4	2741.8	2643.2	2569.4	2496.9	2424.3
32.5°	4022.3	3818.5	3661.1	3476.4	3283.5	3142.6	3029.1	2911.4	2808.8	2703.4	2583.0
35°	4509.4	4410.9	4207.0	3869.1	3674.8	3503.8	3377.9	3235.7	3109.8	2923.7	2740.4
37.5°	5059.4	4830.9	4583.3	4395.8	4175.6	3977.2	3766.5	3605.1	3387.5	3137.1	2877.2
40°	5862.5	5535.5	5237.2	4985.5	4700.9	4493.0	4257.7	4023.7	3735.0	3372.5	3015.4
42.5°	6701.2	6363.2	5969.2	5642.2	5307.0	5063.5	4772.1	4443.7	4019.6	3570.8	3134.4
45°	7580.9	7129.4	6657.4	6257.9	5909.0	5606.6	5245.5	4810.4	4293.2	3748.7	3245.2
47.5°	8448.3	7929.7	7367.4	6937.8	6483.6	6114.2	5670.9	5121.0	4506.7	3917.0	3356.0
50°	9213.1	8713.7	8036.5	7490.6	7030.9	6575.3	6022.6	5360.4	4674.9	4062.0	3455.9
52.5°	9872.5	9442.9	8730.1	8040.6	7511.1	6999.4	6305.8	5553.3	4844.6	4196.1	3538.0
55°	10356.8	10070.9	9414.2	8559.1	7933.8	7323.7	6545.2	5739.3	5004.7	4302.8	3591.4
57.5°	10722.1	10563.4	9999.7	9047.5	8322.4	7638.3	6792.8	5962.4	5163.4	4394.5	3616.0
60°	10921.9	10965.6	10443.0	9474.4	8665.8	7901.0	7040.5	6152.5	5281.0	4447.8	3602.3
62.5°	10902.7	11170.9	10775.5	9737.1	8865.6	8057.0	7207.4	6241.5	5264.6	4363.0	3477.8
63°	10865.8	11177.7	10812.4	9754.8	8877.9	8062.5	7211.5	6229.1	5230.4	4322.0	3428.6
65°	10547.0	11020.4	10780.9	9674.1	8768.4	7959.8	7125.3	6051.3	4989.6	4101.7	3175.5
67.5°	9693.3	10285.7	10217.3	9103.6	8249.9	7535.7	6684.7	5478.0	4394.5	3559.9	2691.1
70°	8282.7	8839.6	8851.9	7917.4	7204.6	6504.1	5796.8	4457.4	3483.3	2759.5	2007.1
72.5°	6348.2	6706.6	6831.1	6215.5	5738.0	5245.5	4610.6	3235.7	2483.2	1877.1	1306.6
75°	4915.7	4817.2	4815.9	4555.9	4361.6	4120.8	3423.1	2183.6	1630.8	1220.4	799.0
77.5°	4419.1	3981.3	3557.2	3245.2	3089.3	3008.5	2245.1	1316.2	961.8	701.9	459.7
80°	3644.7	2999.0	2423.0	2086.4	1952.3	2045.4	1251.8	711.4	526.7	399.5	298.3
82.5°	2513.3	2086.4	1585.7	1313.4	1127.3	1179.3	640.3	363.9	243.5	223.0	184.7
85°	1309.3	1147.9	968.6	831.8	734.7	645.8	332.5	173.8	101.2	88.9	80.7
87.5°	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1447.5	1446.1	1448.9	1450.2	1454.3	1457.1	1458.4	1455.7	1459.8	1463.9	1461.2
5°	1485.8	1495.4	1496.7	1500.9	1500.9	1509.1	1509.1	1509.1	1507.7	1509.1	1506.3
7.5°	1518.6	1530.9	1532.3	1537.8	1539.2	1548.7	1544.6	1547.4	1547.4	1540.5	1537.8
10°	1522.7	1535.1	1541.9	1548.7	1558.3	1570.6	1570.6	1577.5	1577.5	1572.0	1570.6
12.5°	1524.1	1533.7	1540.5	1550.1	1563.8	1581.6	1591.1	1600.7	1604.8	1603.5	1599.4
15°	1552.8	1552.8	1554.2	1562.4	1572.0	1593.9	1607.6	1618.5	1625.4	1622.6	1615.8
17.5°	1628.1	1617.1	1608.9	1595.3	1598.0	1608.9	1617.1	1626.7	1628.1	1625.4	1614.4
20°	1715.6	1702.0	1681.4	1659.6	1648.6	1640.4	1634.9	1634.9	1630.8	1617.1	1599.4
22.5°	1840.1	1822.4	1793.6	1760.8	1738.9	1712.9	1681.4	1651.3	1618.5	1585.7	1547.4
25°	2012.5	1987.9	1957.8	1907.2	1860.7	1805.9	1741.6	1674.6	1596.6	1528.2	1472.1
27.5°	2186.3	2131.6	2053.6	1983.8	1897.6	1815.5	1723.9	1641.8	1541.9	1459.8	1398.2
30°	2329.9	2226.0	2113.8	2003.0	1889.4	1778.6	1669.1	1570.6	1461.2	1377.7	1317.5
32.5°	2440.8	2297.1	2141.1	1996.1	1856.6	1721.1	1595.3	1485.8	1375.0	1288.8	1224.5
35°	2543.4	2343.6	2145.2	1966.0	1793.6	1652.7	1510.4	1391.4	1273.7	1183.4	1113.7
37.5°	2620.0	2365.5	2120.6	1909.9	1711.5	1554.2	1409.2	1287.4	1167.0	1068.5	989.2
40°	2669.2	2351.8	2067.3	1829.2	1614.4	1448.9	1301.1	1175.2	1058.9	950.9	855.1
42.5°	2708.9	2334.0	2013.9	1755.3	1537.8	1357.2	1205.3	1069.9	952.2	834.6	729.2
45°	2767.7	2347.7	1990.6	1703.3	1469.4	1279.2	1112.3	971.4	848.2	733.3	632.1
47.5°	2825.2	2354.6	1956.4	1639.0	1383.2	1198.5	1028.8	892.0	766.2	660.8	567.8
50°	2877.2	2350.5	1903.1	1556.9	1299.7	1117.8	953.6	816.8	692.3	595.1	507.6
52.5°	2901.8	2327.2	1837.4	1477.6	1232.7	1046.6	879.7	747.0	623.9	532.2	451.5
55°	2899.1	2267.0	1751.2	1402.3	1158.8	971.4	807.2	675.9	565.0	480.2	410.4
57.5°	2858.0	2174.0	1659.6	1318.9	1061.7	878.3	722.4	595.1	502.1	431.0	372.1
60°	2771.9	2054.9	1539.2	1197.1	939.9	763.4	617.0	507.6	432.3	377.6	339.3
62.5°	2610.4	1883.9	1388.7	1027.5	775.7	614.3	487.1	415.9	359.8	327.0	309.2
63°	2562.5	1837.4	1324.4	986.4	737.4	580.1	459.7	385.8	344.8	316.0	299.6
65°	2324.5	1608.9	1108.2	796.3	573.3	447.4	369.4	313.3	288.7	276.4	275.0
67.5°	1882.6	1265.5	783.9	545.9	389.9	322.9	283.2	259.9	249.0	246.3	249.0
70°	1321.6	799.0	498.0	362.6	288.7	259.9	242.2	232.6	225.7	227.1	229.8
72.5°	842.8	478.8	342.0	275.0	243.5	228.5	220.3	217.5	216.2	214.8	214.8
75°	480.2	318.8	262.7	238.1	221.6	209.3	202.5	199.7	201.1	202.5	199.7
77.5°	317.4	262.7	234.0	217.5	202.5	188.8	184.7	183.3	186.1	188.8	188.8
80°	250.4	234.0	217.5	201.1	176.5	166.9	169.6	171.0	169.6	171.0	166.9
82.5°	176.5	173.8	177.9	171.0	146.4	138.2	135.4	136.8	134.1	134.1	131.3
85°	82.1	82.1	86.2	86.2	83.5	84.8	91.7	99.9	104.0	99.9	94.4
87.5°	0.0	0.0	0.0	0.0	0.0	12.3	24.6	35.6	38.3	47.9	46.5
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: P152951

CATALOG NUMBER: TLM-E04-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1457.1	1459.8	1458.4	1457.1	1459.8	1457.1	1458.4	1457.1	1457.1	1455.7	1455.7
5°	1503.6	1507.7	1499.5	1498.1	1495.4	1488.5	1488.5	1485.8	1485.8	1480.3	1476.2
7.5°	1533.7	1535.1	1528.2	1526.8	1520.0	1513.2	1507.7	1502.2	1500.9	1496.7	1488.5
10°	1562.4	1559.7	1554.2	1547.4	1540.5	1530.9	1524.1	1517.3	1515.9	1509.1	1499.5
12.5°	1587.0	1585.7	1574.7	1567.9	1556.9	1547.4	1539.2	1530.9	1526.8	1518.6	1505.0
15°	1603.5	1595.3	1581.6	1569.3	1556.9	1546.0	1536.4	1526.8	1522.7	1513.2	1499.5
17.5°	1596.6	1581.6	1563.8	1548.7	1532.3	1518.6	1510.4	1500.9	1494.0	1488.5	1469.4
20°	1572.0	1550.1	1522.7	1505.0	1483.1	1465.3	1459.8	1450.2	1444.8	1424.2	1399.6
22.5°	1507.7	1476.2	1442.0	1416.0	1391.4	1373.6	1359.9	1350.4	1336.7	1324.4	1286.1
25°	1427.0	1391.4	1355.8	1324.4	1291.5	1264.2	1239.5	1216.3	1209.4	1183.4	1146.5
27.5°	1349.0	1309.3	1273.7	1236.8	1194.4	1160.2	1117.8	1084.9	1063.0	1035.7	1001.5
30°	1265.5	1225.9	1178.0	1128.7	1079.5	1042.5	994.6	955.0	927.6	898.9	867.4
32.5°	1160.2	1112.3	1054.8	1000.1	955.0	911.2	863.3	825.0	797.6	771.6	741.5
35°	1039.8	976.9	915.3	855.1	807.2	770.3	727.9	699.1	680.0	656.7	625.2
37.5°	901.6	830.5	764.8	718.3	675.9	640.3	610.2	592.4	571.9	559.6	540.4
40°	762.1	692.3	628.0	585.6	550.0	529.5	513.1	508.9	495.3	478.8	466.5
42.5°	638.9	571.9	508.9	474.7	451.5	446.0	437.8	437.8	431.0	418.7	410.4
45°	555.5	485.7	431.0	406.3	394.0	392.7	388.6	388.6	387.2	381.7	372.1
47.5°	495.3	432.3	389.9	374.9	372.1	369.4	365.3	363.9	362.6	358.5	353.0
50°	440.5	387.2	359.8	353.0	354.3	350.2	346.1	342.0	340.7	336.6	331.1
52.5°	389.9	351.6	333.8	329.7	329.7	329.7	327.0	327.0	324.2	322.9	317.4
55°	361.2	332.5	322.9	321.5	320.1	318.8	316.0	316.0	313.3	311.9	305.1
57.5°	336.6	318.8	313.3	310.6	309.2	306.5	305.1	305.1	305.1	305.1	296.9
60°	317.4	309.2	307.8	305.1	303.7	298.3	295.5	294.2	295.5	296.9	288.7
62.5°	296.9	295.5	294.2	291.4	290.0	284.6	280.5	277.7	280.5	283.2	281.8
63°	291.4	290.0	290.0	288.7	287.3	280.5	276.4	273.6	276.4	279.1	279.1
65°	272.3	273.6	273.6	272.3	270.9	266.8	261.3	258.6	259.9	264.1	265.4
67.5°	251.7	253.1	251.7	253.1	251.7	249.0	244.9	242.2	240.8	242.2	243.5
70°	232.6	235.3	234.0	232.6	231.2	231.2	228.5	224.4	223.0	221.6	221.6
72.5°	216.2	216.2	213.4	213.4	212.1	212.1	209.3	205.2	203.9	203.9	201.1
75°	198.4	198.4	194.3	194.3	191.5	192.9	190.2	186.1	184.7	184.7	183.3
77.5°	187.4	183.3	176.5	175.1	173.8	173.8	172.4	168.3	166.9	166.9	165.5
80°	165.5	157.3	150.5	149.1	150.5	153.2	153.2	150.5	150.5	150.5	150.5
82.5°	128.6	125.9	121.8	119.0	119.0	123.1	128.6	131.3	134.1	136.8	136.8
85°	94.4	95.8	94.4	90.3	88.9	93.0	98.5	104.0	105.3	110.8	109.5
87.5°	50.6	52.0	47.9	46.5	50.6	53.4	58.8	60.2	62.9	64.3	65.7
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: P152951

CATALOG NUMBER: TLM-E04-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1454.3	1453.0	1454.3	1451.6	1451.6	1448.9	1446.1	1444.8	1442.0	1440.7	1437.9
5°	1479.0	1474.9	1470.8	1469.4	1463.9	1458.4	1454.3	1447.5	1442.0	1432.4	1429.7
7.5°	1495.4	1485.8	1480.3	1479.0	1470.8	1466.6	1457.1	1448.9	1440.7	1428.3	1424.2
10°	1502.2	1492.6	1483.1	1479.0	1469.4	1462.5	1453.0	1440.7	1433.8	1421.5	1418.8
12.5°	1510.4	1492.6	1477.6	1466.6	1453.0	1437.9	1428.3	1421.5	1411.9	1405.1	1402.3
15°	1495.4	1472.1	1448.9	1428.3	1406.4	1390.0	1380.5	1369.5	1358.6	1354.5	1354.5
17.5°	1454.3	1424.2	1384.6	1358.6	1335.3	1317.5	1305.2	1294.3	1292.9	1287.4	1290.2
20°	1369.5	1329.8	1291.5	1272.4	1258.7	1247.7	1235.4	1230.0	1225.9	1217.6	1214.9
22.5°	1251.8	1219.0	1191.7	1178.0	1167.0	1153.3	1142.4	1126.0	1121.9	1113.7	1109.6
25°	1121.9	1095.9	1072.6	1063.0	1056.2	1037.1	1030.2	1008.3	993.3	983.7	989.2
27.5°	991.9	972.7	950.9	938.5	934.4	916.7	909.8	885.2	872.9	872.9	859.2
30°	857.8	840.0	826.4	812.7	809.9	788.0	770.3	760.7	747.0	741.5	732.0
32.5°	732.0	714.2	703.2	696.4	685.4	667.7	649.9	633.4	611.6	603.4	599.2
35°	615.7	602.0	588.3	582.8	567.8	548.6	526.7	513.1	487.1	477.5	473.4
37.5°	526.7	510.3	500.7	485.7	470.6	450.1	433.7	421.4	411.8	407.7	407.7
40°	455.6	443.3	432.3	420.0	407.7	396.8	388.6	385.8	384.4	384.4	387.2
42.5°	402.2	391.3	385.8	379.0	374.9	374.9	373.5	374.9	376.2	377.6	381.7
45°	366.7	359.8	357.1	355.7	358.5	361.2	362.6	365.3	370.8	373.5	374.9
47.5°	347.5	342.0	340.7	342.0	346.1	351.6	357.1	361.2	365.3	366.7	368.0
50°	328.4	321.5	318.8	321.5	327.0	335.2	339.3	346.1	348.9	351.6	348.9
52.5°	311.9	306.5	305.1	305.1	310.6	316.0	321.5	327.0	328.4	328.4	327.0
55°	298.3	294.2	290.0	292.8	296.9	302.4	310.6	314.7	317.4	318.8	318.8
57.5°	287.3	283.2	279.1	281.8	285.9	291.4	299.6	303.7	306.5	310.6	311.9
60°	279.1	273.6	269.5	273.6	277.7	285.9	292.8	296.9	303.7	305.1	305.1
62.5°	270.9	265.4	258.6	262.7	262.7	266.8	273.6	279.1	285.9	288.7	288.7
63°	269.5	264.1	257.2	259.9	259.9	262.7	268.2	273.6	281.8	284.6	283.2
65°	258.6	257.2	250.4	250.4	247.6	250.4	254.5	259.9	264.1	268.2	268.2
67.5°	240.8	239.4	238.1	238.1	238.1	240.8	243.5	247.6	251.7	254.5	253.1
70°	220.3	220.3	220.3	221.6	221.6	224.4	225.7	224.4	228.5	231.2	229.8
72.5°	202.5	201.1	199.7	202.5	201.1	201.1	203.9	202.5	206.6	206.6	208.0
75°	183.3	182.0	182.0	183.3	180.6	177.9	179.2	179.2	180.6	180.6	183.3
77.5°	166.9	166.9	166.9	165.5	162.8	161.4	160.1	160.1	160.1	160.1	161.4
80°	151.9	151.9	151.9	150.5	147.8	145.0	142.3	140.9	139.6	132.7	132.7
82.5°	136.8	136.8	136.8	136.8	135.4	132.7	128.6	117.7	112.2	106.7	108.1
85°	108.1	110.8	113.6	117.7	116.3	116.3	108.1	94.4	86.2	80.7	82.1
87.5°	69.8	61.6	61.6	60.2	57.5	54.7	54.7	46.5	38.3	34.2	35.6
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: P152951

CATALOG NUMBER: TLM-E04-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1437.9	1435.2	1432.4	1432.4	1428.3	1428.3	1425.6	1431.1	1425.6	1421.5	1421.5
5°	1427.0	1424.2	1416.0	1414.7	1409.2	1409.2	1409.2	1406.4	1406.4	1403.7	1402.3
7.5°	1420.1	1413.3	1406.4	1402.3	1402.3	1399.6	1405.1	1402.3	1403.7	1403.7	1405.1
10°	1414.7	1409.2	1406.4	1405.1	1405.1	1409.2	1413.3	1414.7	1413.3	1414.7	1414.7
12.5°	1401.0	1403.7	1405.1	1410.6	1417.4	1425.6	1435.2	1436.5	1439.3	1439.3	1442.0
15°	1357.2	1364.0	1372.2	1385.9	1403.7	1421.5	1439.3	1454.3	1468.0	1474.9	1480.3
17.5°	1295.6	1302.5	1317.5	1332.6	1355.8	1381.8	1411.9	1437.9	1466.6	1492.6	1518.6
20°	1212.2	1223.1	1227.2	1254.6	1281.9	1317.5	1353.1	1394.1	1443.4	1492.6	1543.3
22.5°	1104.1	1116.4	1135.6	1157.4	1186.2	1230.0	1272.4	1336.7	1402.3	1472.1	1551.5
25°	983.7	997.4	1013.8	1037.1	1065.8	1112.3	1173.9	1242.3	1323.0	1414.7	1513.2
27.5°	859.2	872.9	886.6	903.0	935.8	985.1	1057.6	1128.7	1217.6	1317.5	1432.4
30°	734.7	736.1	744.3	764.8	799.0	863.3	916.7	1005.6	1098.6	1204.0	1336.7
32.5°	597.9	596.5	606.1	623.9	656.7	718.3	783.9	870.1	961.8	1094.5	1231.3
35°	476.1	476.1	493.9	511.7	548.6	592.4	649.9	726.5	834.6	957.7	1094.5
37.5°	411.8	421.4	432.3	450.1	478.8	513.1	563.7	630.7	715.5	833.2	959.1
40°	391.3	396.8	406.3	422.8	447.4	478.8	515.8	566.4	632.1	726.5	841.4
42.5°	383.1	384.4	389.9	402.2	424.1	455.6	493.9	539.0	588.3	655.3	755.2
45°	374.9	373.5	376.2	385.8	403.6	439.2	483.0	532.2	581.5	637.6	719.6
47.5°	368.0	368.0	368.0	372.1	388.6	424.1	474.7	532.2	591.0	654.0	734.7
50°	348.9	347.5	347.5	350.2	362.6	400.9	461.1	530.8	607.5	689.5	781.2
52.5°	327.0	327.0	328.4	329.7	340.7	379.0	446.0	530.8	626.6	736.1	851.0
55°	320.1	321.5	322.9	321.5	329.7	362.6	429.6	522.6	634.8	773.0	926.2
57.5°	314.7	317.4	317.4	316.0	321.5	348.9	413.2	506.2	628.0	786.7	979.6
60°	306.5	306.5	306.5	302.4	305.1	329.7	388.6	480.2	606.1	774.4	987.8
62.5°	288.7	288.7	285.9	284.6	283.2	302.4	355.7	441.9	566.4	741.5	967.3
63°	284.6	283.2	283.2	279.1	279.1	296.9	348.9	436.4	555.5	733.3	959.1
65°	269.5	269.5	269.5	266.8	265.4	279.1	321.5	398.1	513.1	695.0	918.0
67.5°	253.1	254.5	251.7	250.4	249.0	257.2	290.0	350.2	447.4	614.3	841.4
70°	229.8	231.2	231.2	229.8	228.5	234.0	254.5	301.0	370.8	511.7	716.9
72.5°	209.3	212.1	212.1	214.8	214.8	218.9	227.1	250.4	296.9	399.5	563.7
75°	187.4	188.8	191.5	194.3	191.5	190.2	191.5	209.3	232.6	295.5	402.2
77.5°	168.3	172.4	172.4	171.0	166.9	164.2	164.2	172.4	191.5	224.4	287.3
80°	139.6	146.4	147.8	143.7	139.6	139.6	142.3	147.8	160.1	184.7	217.5
82.5°	112.2	119.0	120.4	121.8	120.4	124.5	124.5	125.9	132.7	151.9	177.9
85°	86.2	91.7	95.8	97.1	98.5	99.9	98.5	91.7	95.8	108.1	120.4
87.5°	38.3	39.7	36.9	38.3	36.9	38.3	39.7	32.8	31.5	42.4	43.8
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: P152951

CATALOG NUMBER: TLM-E04-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1420.1	1420.1	1421.5	1418.8	1418.8	1420.1	1416.0
5°	1398.2	1403.7	1403.7	1403.7	1401.0	1403.7	1405.1
7.5°	1403.7	1407.8	1410.6	1410.6	1409.2	1414.7	1418.8
10°	1410.6	1417.4	1420.1	1420.1	1420.1	1427.0	1436.5
12.5°	1436.5	1442.0	1446.1	1446.1	1448.9	1457.1	1468.0
15°	1484.4	1491.3	1491.3	1489.9	1498.1	1507.7	1520.0
17.5°	1537.8	1556.9	1566.5	1565.2	1572.0	1584.3	1598.0
20°	1588.4	1641.8	1665.0	1681.4	1688.3	1704.7	1708.8
22.5°	1630.8	1719.8	1784.1	1838.8	1864.8	1881.2	1900.3
25°	1615.8	1736.2	1851.1	1963.3	2042.6	2123.4	2157.6
27.5°	1554.2	1704.7	1855.2	2019.4	2163.0	2306.7	2410.7
30°	1479.0	1659.6	1862.0	2094.6	2321.7	2542.0	2717.1
32.5°	1392.8	1617.1	1877.1	2164.4	2462.7	2751.3	3004.4
35°	1284.7	1536.4	1840.1	2171.2	2522.9	2873.1	3201.4
37.5°	1147.9	1427.0	1754.0	2122.0	2525.6	2926.5	3319.1
40°	1011.1	1288.8	1644.5	2050.8	2490.0	2938.8	3393.0
42.5°	915.3	1165.7	1533.7	1960.5	2432.6	2919.6	3428.6
45°	849.6	1076.7	1435.2	1878.5	2371.0	2885.4	3434.0
47.5°	844.1	1038.4	1370.9	1818.3	2321.7	2855.3	3434.0
50°	890.7	1058.9	1349.0	1788.2	2301.2	2845.7	3436.8
52.5°	978.2	1141.0	1388.7	1811.4	2317.6	2858.0	3449.1
55°	1083.6	1265.5	1495.4	1892.1	2387.4	2899.1	3476.4
57.5°	1179.3	1409.2	1677.3	2048.1	2514.6	3003.1	3553.1
60°	1235.4	1532.3	1870.2	2267.0	2732.2	3209.7	3706.3
62.5°	1242.3	1600.7	2041.3	2505.1	2996.2	3446.3	3951.2
63°	1236.8	1606.2	2063.2	2550.2	3052.3	3505.2	4036.0
65°	1206.7	1607.6	2124.7	2708.9	3246.6	3752.8	4272.7
67.5°	1130.1	1563.8	2146.6	2833.4	3491.5	4078.4	4714.6
70°	997.4	1439.3	2082.3	2836.2	3585.9	4260.4	4993.7
72.5°	801.7	1202.6	1804.6	2580.3	3336.9	4081.2	4921.2
75°	586.9	883.8	1364.0	1998.9	2722.6	3397.1	4215.2
77.5°	389.9	571.9	919.4	1424.2	1952.3	2444.9	3034.5
80°	268.2	354.3	537.7	856.5	1194.4	1433.8	1933.2
82.5°	197.0	234.0	298.3	437.8	574.6	707.3	1009.7
85°	123.1	134.1	149.1	216.2	309.2	417.3	629.3
87.5°	32.8	34.2	31.5	42.4	67.0	64.3	71.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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