

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: P152958

Luminaire Tested: **TLM-E05-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152958
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-E05-LED-E1-SLL-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

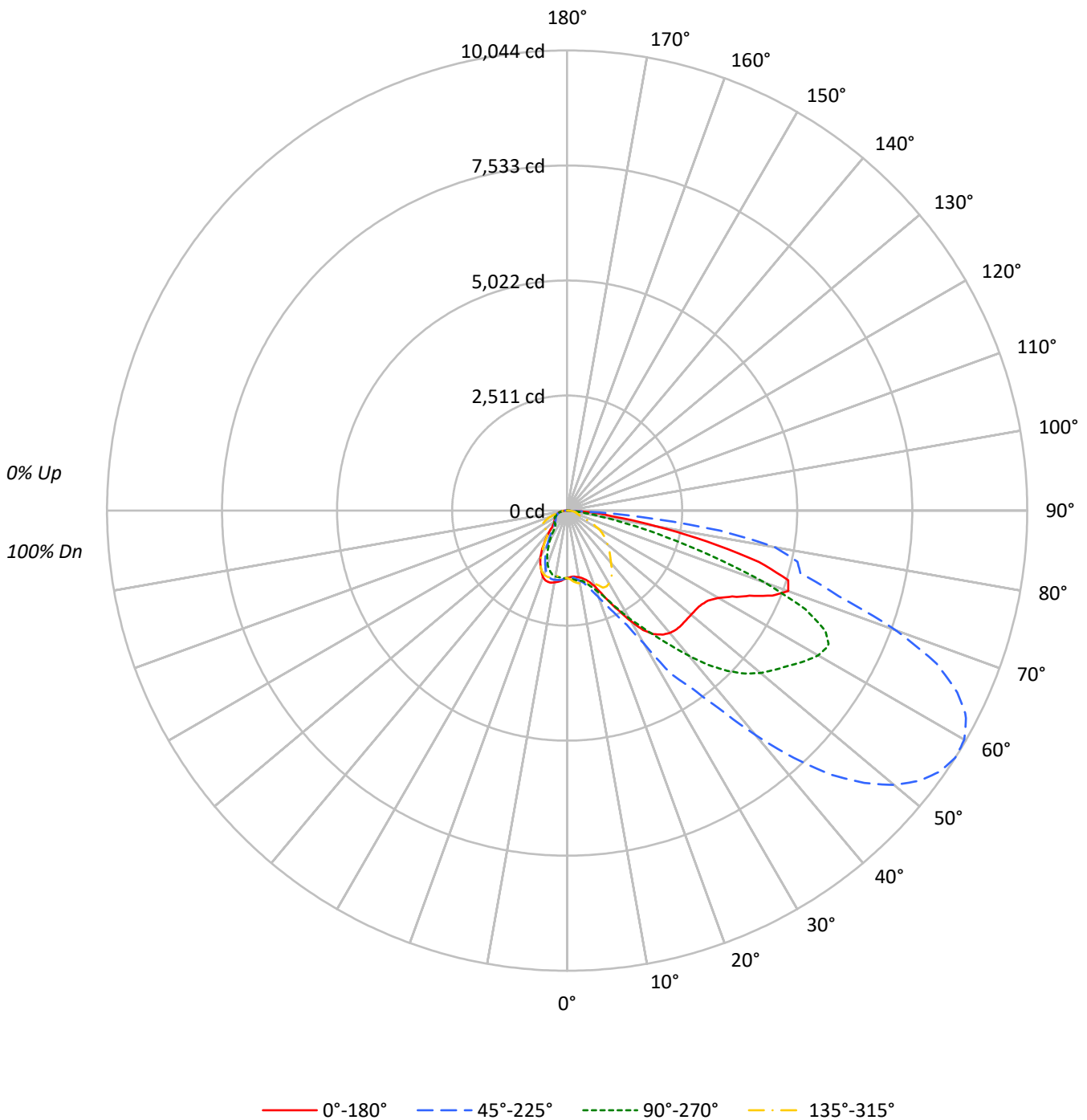
Lumens per Lamp: N/A
Luminaire Lumens: 11741.8 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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°	19136	19136	19136	19136
5°	18806	19630	20052	19137
10°	19450	20413	20950	19209
15°	20982	22059	21662	18697
20°	24247	25606	21354	17239
25°	31742	31360	19483	14552
30°	41834	40697	17378	11270
35°	52112	52667	13919	7705
40°	59058	70036	10191	6740
45°	64754	90708	7663	7068
50°	71290	111193	7322	7237
55°	80815	133419	7475	7409
60°	98836	164071	8136	8136
65°	134805	190918	8589	8460
70°	194680	173772	9066	8960
75°	217157	112490	10006	9445
80°	148440	54631	11449	10187
85°	96287	26575	13808	12559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.2
10°-20°	447.4	3.8
20°-30°	794.8	6.8
30°-40°	1251.5	10.7
40°-50°	1841.9	15.7
50°-60°	2446.5	20.8
60°-70°	2694.8	23.0
70°-80°	1690.7	14.4
80°-90°	430.6	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°	1385.7	11.8
0°-40°	2637.3	22.5
0°-60°	6925.6	59.0
0°-90°	11741.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11741.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1476	1476	1476	1476	1476	
5°	1445	1508	1540	1470	1445	139
15°	1563	1643	1613	1393	1563	453
25°	2218	2192	1362	1017	2218	1047
35°	3292	3327	879	487	3292	2040
45°	3531	4946	418	385	3531	2730
55°	3574	5901	331	328	3574	3242
65°	4393	6222	280	276	4393	4423
75°	4334	2245	200	188	4334	4238
85°	647	179	93	84	647	748
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°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1455.9	1458.7	1458.7	1457.3	1457.3	1460.1	1458.7	1457.3	1453.1	1458.7	1458.7
5°	1444.6	1447.4	1447.4	1450.3	1453.1	1455.9	1455.9	1458.7	1457.3	1462.9	1467.1
7.5°	1458.7	1461.5	1467.1	1474.2	1478.4	1488.2	1488.2	1495.3	1498.1	1502.3	1500.9
10°	1477.0	1484.0	1496.7	1507.9	1516.4	1527.6	1536.1	1545.9	1545.9	1550.1	1552.9
12.5°	1509.3	1516.4	1530.4	1544.5	1557.2	1571.2	1583.9	1593.7	1603.6	1606.4	1612.0
15°	1562.8	1571.2	1592.3	1612.0	1627.5	1645.8	1662.7	1682.4	1700.6	1704.9	1707.7
17.5°	1643.0	1659.8	1675.3	1710.5	1733.0	1756.9	1783.6	1811.8	1817.4	1846.9	1854.0
20°	1756.9	1778.0	1792.1	1835.7	1873.7	1904.6	1944.0	1976.3	1989.0	2017.1	2045.3
22.5°	1953.8	1949.6	1970.7	2014.3	2042.5	2104.4	2138.1	2171.9	2188.7	2230.9	2253.5
25°	2218.3	2240.8	2287.2	2291.4	2318.2	2389.9	2433.5	2467.3	2468.7	2481.3	2505.2
27.5°	2478.5	2571.4	2644.5	2683.9	2755.6	2821.7	2818.9	2866.8	2792.2	2807.7	2830.2
30°	2793.6	2948.3	3086.2	3179.0	3252.2	3329.5	3367.5	3394.3	3361.9	3347.8	3321.1
32.5°	3089.0	3305.6	3518.0	3682.6	3819.1	3947.1	4031.5	4069.4	4114.5	4228.4	4269.2
35°	3291.6	3598.2	3862.7	4100.4	4328.3	4532.2	4679.9	4764.3	4732.0	4716.5	4708.1
37.5°	3412.5	3786.7	4117.3	4453.5	4715.1	5020.3	5249.6	5471.9	5522.5	5433.9	5390.3
40°	3488.5	3931.6	4356.4	4753.1	5092.1	5485.9	5770.1	6103.5	6356.7	6390.4	6286.3
42.5°	3525.1	4028.7	4523.8	4972.5	5431.1	5913.6	6273.7	6677.4	7055.8	7316.0	7251.3
45°	3530.7	4091.9	4646.2	5170.9	5716.6	6289.1	6753.3	7200.6	7707.0	8153.0	8165.6
47.5°	3530.7	4139.8	4730.6	5314.3	5972.6	6615.5	7121.9	7650.8	8271.1	8798.6	8960.4
50°	3533.5	4172.1	4809.3	5426.9	6168.2	6891.2	7463.7	8088.2	8740.9	9314.8	9627.1
52.5°	3546.2	4196.0	4871.2	5507.0	6294.8	7085.3	7729.6	8449.8	9099.6	9689.0	10092.7
55°	3574.3	4229.8	4916.2	5556.3	6379.2	7211.9	7922.3	8697.3	9331.7	9929.6	10493.6
57.5°	3653.1	4288.9	4971.1	5599.9	6425.6	7294.9	8057.3	8804.2	9420.3	10043.5	10706.0
60°	3810.6	4414.1	5065.4	5687.1	6503.0	7448.2	8122.0	8732.5	9355.6	10009.7	10753.9
62.5°	4062.4	4609.6	5196.2	5834.8	6723.8	7685.9	8072.8	8518.7	9101.0	9814.2	10583.6
63°	4149.6	4651.8	5225.7	5867.1	6784.3	7729.6	8051.7	8455.4	9049.0	9752.3	10523.2
65°	4393.0	4838.9	5366.4	6030.3	7033.3	7773.2	7887.1	8126.2	8688.9	9399.2	10165.9
67.5°	4847.3	5293.2	5668.8	6306.0	7242.8	7601.5	7376.5	7406.0	7994.0	8729.7	9418.9
70°	5134.3	5666.0	5861.5	6341.2	7204.9	7346.9	6715.4	6324.3	6795.5	7633.9	8237.4
72.5°	5059.7	5670.2	5649.1	5872.8	6445.3	6577.5	5923.4	5307.3	5587.2	6213.2	6604.2
75°	4333.9	5063.9	4909.2	4864.2	5065.4	5152.6	4661.6	4567.4	4920.5	5267.9	5273.5
77.5°	3120.0	3923.2	3741.7	3481.5	3467.4	3668.5	3734.7	4352.2	4874.0	5148.3	5027.4
80°	1987.6	2858.3	2669.8	2215.5	2208.4	2470.1	3051.0	3890.8	4443.6	4596.9	4281.8
82.5°	1038.1	1870.8	1942.6	1662.7	1903.2	2336.4	2903.3	3135.4	3345.0	3366.1	2994.8
85°	647.1	1150.6	1353.2	1396.8	1718.9	2072.0	2067.8	1986.2	1893.4	1620.5	1465.7
87.5°	73.1	144.9	219.4	208.2	279.9	392.5	489.5	287.0	201.2	73.1	101.3
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°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1461.5	1462.9	1464.3	1464.3	1471.4	1470.0	1471.4	1474.2	1478.4	1481.2	1484.0
5°	1472.8	1472.8	1478.4	1482.6	1491.1	1496.7	1499.5	1507.9	1517.8	1515.0	1523.4
7.5°	1509.3	1507.9	1513.6	1516.4	1523.4	1533.3	1531.8	1538.9	1547.3	1550.1	1557.2
10°	1558.6	1554.3	1554.3	1551.5	1552.9	1550.1	1550.1	1550.1	1555.8	1554.3	1560.0
12.5°	1609.2	1607.8	1605.0	1596.5	1596.5	1585.3	1579.7	1572.6	1571.2	1561.4	1562.8
15°	1713.3	1713.3	1707.7	1690.8	1676.7	1666.9	1652.8	1643.0	1628.9	1610.6	1600.8
17.5°	1865.2	1845.5	1838.5	1835.7	1813.2	1804.7	1773.8	1741.4	1726.0	1700.6	1686.6
20°	2050.9	2046.7	2018.5	2004.5	1976.3	1937.0	1897.6	1855.4	1830.1	1799.1	1782.2
22.5°	2260.5	2229.5	2215.5	2194.4	2150.8	2105.8	2046.7	1990.4	1951.0	1929.9	1917.3
25°	2505.2	2474.3	2460.2	2432.1	2378.6	2330.8	2257.7	2191.6	2156.4	2121.2	2101.5
27.5°	2830.2	2800.6	2783.8	2710.6	2692.3	2613.6	2523.5	2433.5	2387.1	2335.0	2301.3
30°	3315.5	3316.9	3229.7	3141.1	3049.6	2913.2	2818.9	2717.7	2641.7	2567.1	2492.6
32.5°	4135.6	3926.0	3764.2	3574.3	3376.0	3231.1	3114.3	2993.4	2887.9	2779.5	2655.8
35°	4636.3	4535.0	4325.5	3978.0	3778.3	3602.4	3473.0	3326.7	3197.3	3006.0	2817.5
37.5°	5201.8	4966.9	4712.3	4519.6	4293.1	4089.1	3872.5	3706.5	3482.9	3225.5	2958.2
40°	6027.5	5691.3	5384.7	5125.8	4833.3	4619.4	4377.5	4137.0	3840.2	3467.4	3100.3
42.5°	6889.8	6542.3	6137.2	5801.0	5456.4	5206.0	4906.4	4568.8	4132.7	3671.4	3222.6
45°	7794.3	7330.1	6844.8	6434.0	6075.3	5764.5	5393.1	4945.8	4414.1	3854.2	3336.6
47.5°	8686.1	8153.0	7574.8	7133.1	6666.1	6286.3	5830.6	5265.1	4633.5	4027.2	3450.5
50°	9472.4	8959.0	8262.7	7701.4	7228.8	6760.4	6192.1	5511.3	4806.5	4176.3	3553.2
52.5°	10150.4	9708.7	8975.8	8266.9	7722.5	7196.4	6483.3	5709.6	4981.0	4314.2	3637.6
55°	10648.4	10354.4	9679.2	8800.0	8157.2	7529.8	6729.4	5900.9	5145.5	4423.9	3692.5
57.5°	11023.9	10860.8	10281.2	9302.2	8556.7	7853.3	6984.0	6130.2	5308.7	4518.2	3717.8
60°	11229.3	11274.3	10737.0	9741.1	8909.7	8123.4	7238.6	6325.7	5429.7	4573.0	3703.7
62.5°	11209.6	11485.3	11078.8	10011.1	9115.1	8283.8	7410.2	6417.1	5412.8	4485.8	3575.7
63°	11171.6	11492.3	11116.8	10029.4	9127.8	8289.4	7414.5	6404.5	5377.6	4443.6	3525.1
65°	10843.9	11330.6	11084.4	9946.4	9015.2	8183.9	7325.8	6221.6	5130.1	4217.1	3264.8
67.5°	9966.1	10575.2	10504.9	9359.9	8482.1	7747.8	6872.9	5632.2	4518.2	3660.1	2766.9
70°	8515.9	9088.4	9101.0	8140.3	7407.4	6687.2	5960.0	4582.9	3581.3	2837.2	2063.6
72.5°	6526.9	6895.4	7023.4	6390.4	5899.5	5393.1	4740.4	3326.7	2553.1	1929.9	1343.4
75°	5054.1	4952.8	4951.4	4684.1	4484.4	4236.8	3519.4	2245.0	1676.7	1254.7	821.5
77.5°	4543.5	4093.4	3657.3	3336.6	3176.2	3093.2	2308.3	1353.2	988.9	721.6	472.6
80°	3747.3	3083.4	2491.2	2145.1	2007.3	2102.9	1287.1	731.5	541.6	410.7	306.7
82.5°	2584.0	2145.1	1630.3	1350.4	1159.1	1212.5	658.3	374.2	250.4	229.3	189.9
85°	1346.2	1180.2	995.9	855.2	755.4	663.9	341.8	178.6	104.1	91.4	83.0
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°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1488.2	1486.8	1489.6	1491.1	1495.3	1498.1	1499.5	1496.7	1500.9	1505.1	1502.3
5°	1527.6	1537.5	1538.9	1543.1	1543.1	1551.5	1551.5	1551.5	1550.1	1551.5	1548.7
7.5°	1561.4	1574.0	1575.4	1581.1	1582.5	1592.3	1588.1	1590.9	1590.9	1583.9	1581.1
10°	1565.6	1578.3	1585.3	1592.3	1602.2	1614.8	1614.8	1621.9	1621.9	1616.2	1614.8
12.5°	1567.0	1576.9	1583.9	1593.7	1607.8	1626.1	1635.9	1645.8	1650.0	1648.6	1644.4
15°	1596.5	1596.5	1598.0	1606.4	1616.2	1638.7	1652.8	1664.1	1671.1	1668.3	1661.3
17.5°	1673.9	1662.7	1654.2	1640.2	1643.0	1654.2	1662.7	1672.5	1673.9	1671.1	1659.8
20°	1763.9	1749.9	1728.8	1706.3	1695.0	1686.6	1680.9	1680.9	1676.7	1662.7	1644.4
22.5°	1891.9	1873.7	1844.1	1810.4	1787.9	1761.1	1728.8	1697.8	1664.1	1630.3	1590.9
25°	2069.2	2043.9	2012.9	1960.9	1913.0	1856.8	1790.7	1721.7	1641.6	1571.2	1513.6
27.5°	2247.8	2191.6	2111.4	2039.6	1951.0	1866.6	1772.4	1688.0	1585.3	1500.9	1437.6
30°	2395.5	2288.6	2173.3	2059.3	1942.6	1828.6	1716.1	1614.8	1502.3	1416.5	1354.6
32.5°	2509.5	2361.8	2201.4	2052.3	1908.8	1769.6	1640.2	1527.6	1413.7	1325.1	1259.0
35°	2615.0	2409.6	2205.6	2021.4	1844.1	1699.2	1552.9	1430.6	1309.6	1216.8	1145.0
37.5°	2693.7	2432.1	2180.3	1963.7	1759.7	1598.0	1448.9	1323.7	1199.9	1098.6	1017.0
40°	2744.4	2418.0	2125.5	1880.7	1659.8	1489.6	1337.7	1208.3	1088.7	977.6	879.2
42.5°	2785.2	2399.7	2070.6	1804.7	1581.1	1395.4	1239.3	1100.0	979.0	858.1	749.7
45°	2845.7	2413.8	2046.7	1751.3	1510.7	1315.2	1143.6	998.7	872.1	754.0	649.9
47.5°	2904.7	2420.8	2011.5	1685.2	1422.1	1232.2	1057.8	917.1	787.7	679.4	583.8
50°	2958.2	2416.6	1956.7	1600.8	1336.3	1149.2	980.4	839.8	711.8	611.9	521.9
52.5°	2983.5	2392.7	1889.1	1519.2	1267.4	1076.1	904.5	768.0	641.4	547.2	464.2
55°	2980.7	2330.8	1800.5	1441.8	1191.4	998.7	829.9	694.9	580.9	493.7	422.0
57.5°	2938.5	2235.2	1706.3	1356.0	1091.6	903.1	742.7	611.9	516.2	443.1	382.6
60°	2849.9	2112.8	1582.5	1230.8	966.4	784.9	634.4	521.9	444.5	388.2	348.8
62.5°	2683.9	1937.0	1427.8	1056.4	797.6	631.6	500.8	427.6	369.9	336.2	317.9
63°	2634.7	1889.1	1361.6	1014.2	758.2	596.4	472.6	396.7	354.5	324.9	308.1
65°	2389.9	1654.2	1139.4	818.7	589.4	460.0	379.8	322.1	296.8	284.1	282.7
67.5°	1935.6	1301.2	806.0	561.3	400.9	332.0	291.2	267.3	256.0	253.2	256.0
70°	1358.8	821.5	512.0	372.8	296.8	267.3	249.0	239.1	232.1	233.5	236.3
72.5°	866.5	492.3	351.7	282.7	250.4	234.9	226.5	223.7	222.3	220.8	220.8
75°	493.7	327.7	270.1	244.8	227.9	215.2	208.2	205.4	206.8	208.2	205.4
77.5°	326.3	270.1	240.5	223.7	208.2	194.1	189.9	188.5	191.3	194.1	194.1
80°	257.4	240.5	223.7	206.8	181.5	171.6	174.4	175.8	174.4	175.8	171.6
82.5°	181.5	178.6	182.9	175.8	150.5	142.1	139.3	140.7	137.9	137.9	135.0
85°	84.4	84.4	88.6	88.6	85.8	87.2	94.2	102.7	106.9	102.7	97.1
87.5°	0.0	0.0	0.0	0.0	0.0	12.7	25.3	36.6	39.4	49.2	47.8
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: P152958

CATALOG NUMBER: TLM-E05-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1498.1	1500.9	1499.5	1498.1	1500.9	1498.1	1499.5	1498.1	1498.1	1496.7	1496.7
5°	1545.9	1550.1	1541.7	1540.3	1537.5	1530.4	1530.4	1527.6	1527.6	1522.0	1517.8
7.5°	1576.9	1578.3	1571.2	1569.8	1562.8	1555.8	1550.1	1544.5	1543.1	1538.9	1530.4
10°	1606.4	1603.6	1598.0	1590.9	1583.9	1574.0	1567.0	1560.0	1558.6	1551.5	1541.7
12.5°	1631.7	1630.3	1619.1	1612.0	1600.8	1590.9	1582.5	1574.0	1569.8	1561.4	1547.3
15°	1648.6	1640.2	1626.1	1613.4	1600.8	1589.5	1579.7	1569.8	1565.6	1555.8	1541.7
17.5°	1641.6	1626.1	1607.8	1592.3	1575.4	1561.4	1552.9	1543.1	1536.1	1530.4	1510.7
20°	1616.2	1593.7	1565.6	1547.3	1524.8	1506.5	1500.9	1491.1	1485.4	1464.3	1439.0
22.5°	1550.1	1517.8	1482.6	1455.9	1430.6	1412.3	1398.2	1388.4	1374.3	1361.6	1322.3
25°	1467.1	1430.6	1394.0	1361.6	1327.9	1299.7	1274.4	1250.5	1243.5	1216.8	1178.8
27.5°	1387.0	1346.2	1309.6	1271.6	1228.0	1192.8	1149.2	1115.5	1093.0	1064.8	1029.7
30°	1301.2	1260.4	1211.1	1160.5	1109.8	1071.9	1022.6	981.8	953.7	924.2	891.8
32.5°	1192.8	1143.6	1084.5	1028.3	981.8	936.8	887.6	848.2	820.1	793.4	762.4
35°	1069.1	1004.3	941.0	879.2	829.9	791.9	748.3	718.8	699.1	675.2	642.8
37.5°	927.0	853.8	786.3	738.5	694.9	658.3	627.4	609.1	588.0	575.3	555.6
40°	783.5	711.8	645.7	602.0	565.5	544.4	527.5	523.3	509.2	492.3	479.7
42.5°	656.9	588.0	523.3	488.1	464.2	458.6	450.1	450.1	443.1	430.4	422.0
45°	571.1	499.4	443.1	417.8	405.1	403.7	399.5	399.5	398.1	392.5	382.6
47.5°	509.2	444.5	400.9	385.4	382.6	379.8	375.6	374.2	372.8	368.5	362.9
50°	452.9	398.1	369.9	362.9	364.3	360.1	355.9	351.7	350.3	346.0	340.4
52.5°	400.9	361.5	343.2	339.0	339.0	339.0	336.2	336.2	333.4	332.0	326.3
55°	371.4	341.8	332.0	330.6	329.2	327.7	324.9	324.9	322.1	320.7	313.7
57.5°	346.0	327.7	322.1	319.3	317.9	315.1	313.7	313.7	313.7	313.7	305.2
60°	326.3	317.9	316.5	313.7	312.3	306.7	303.8	302.4	303.8	305.2	296.8
62.5°	305.2	303.8	302.4	299.6	298.2	292.6	288.4	285.6	288.4	291.2	289.8
63°	299.6	298.2	298.2	296.8	295.4	288.4	284.1	281.3	284.1	287.0	287.0
65°	279.9	281.3	281.3	279.9	278.5	274.3	268.7	265.9	267.3	271.5	272.9
67.5°	258.8	260.2	258.8	260.2	258.8	256.0	251.8	249.0	247.6	249.0	250.4
70°	239.1	241.9	240.5	239.1	237.7	237.7	234.9	230.7	229.3	227.9	227.9
72.5°	222.3	222.3	219.4	219.4	218.0	218.0	215.2	211.0	209.6	209.6	206.8
75°	204.0	204.0	199.7	199.7	196.9	198.3	195.5	191.3	189.9	189.9	188.5
77.5°	192.7	188.5	181.5	180.1	178.6	178.6	177.2	173.0	171.6	171.6	170.2
80°	170.2	161.8	154.7	153.3	154.7	157.5	157.5	154.7	154.7	154.7	154.7
82.5°	132.2	129.4	125.2	122.4	122.4	126.6	132.2	135.0	137.9	140.7	140.7
85°	97.1	98.5	97.1	92.8	91.4	95.7	101.3	106.9	108.3	113.9	112.5
87.5°	52.0	53.5	49.2	47.8	52.0	54.9	60.5	61.9	64.7	66.1	67.5
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: P152958

CATALOG NUMBER: TLM-E05-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1495.3	1493.9	1495.3	1492.5	1492.5	1489.6	1486.8	1485.4	1482.6	1481.2	1478.4
5°	1520.6	1516.4	1512.2	1510.7	1505.1	1499.5	1495.3	1488.2	1482.6	1472.8	1470.0
7.5°	1537.5	1527.6	1522.0	1520.6	1512.2	1507.9	1498.1	1489.6	1481.2	1468.5	1464.3
10°	1544.5	1534.7	1524.8	1520.6	1510.7	1503.7	1493.9	1481.2	1474.2	1461.5	1458.7
12.5°	1552.9	1534.7	1519.2	1507.9	1493.9	1478.4	1468.5	1461.5	1451.7	1444.6	1441.8
15°	1537.5	1513.6	1489.6	1468.5	1446.0	1429.2	1419.3	1408.1	1396.8	1392.6	1392.6
17.5°	1495.3	1464.3	1423.5	1396.8	1372.9	1354.6	1341.9	1330.7	1329.3	1323.7	1326.5
20°	1408.1	1367.3	1327.9	1308.2	1294.1	1282.9	1270.2	1264.6	1260.4	1251.9	1249.1
22.5°	1287.1	1253.3	1225.2	1211.1	1199.9	1185.8	1174.6	1157.7	1153.5	1145.0	1140.8
25°	1153.5	1126.7	1102.8	1093.0	1085.9	1066.2	1059.2	1036.7	1021.2	1011.4	1017.0
27.5°	1019.8	1000.1	977.6	965.0	960.7	942.5	935.4	910.1	897.4	897.4	883.4
30°	882.0	863.7	849.6	835.6	832.7	810.2	791.9	782.1	768.0	762.4	752.6
32.5°	752.6	734.3	723.0	716.0	704.7	686.4	668.2	651.3	628.8	620.3	616.1
35°	633.0	618.9	604.9	599.2	583.8	564.1	541.6	527.5	500.8	490.9	486.7
37.5°	541.6	524.7	514.8	499.4	483.9	462.8	445.9	433.2	423.4	419.2	419.2
40°	468.4	455.8	444.5	431.8	419.2	407.9	399.5	396.7	395.3	395.3	398.1
42.5°	413.6	402.3	396.7	389.6	385.4	385.4	384.0	385.4	386.8	388.2	392.5
45°	377.0	369.9	367.1	365.7	368.5	371.4	372.8	375.6	381.2	384.0	385.4
47.5°	357.3	351.7	350.3	351.7	355.9	361.5	367.1	371.4	375.6	377.0	378.4
50°	337.6	330.6	327.7	330.6	336.2	344.6	348.8	355.9	358.7	361.5	358.7
52.5°	320.7	315.1	313.7	313.7	319.3	324.9	330.6	336.2	337.6	337.6	336.2
55°	306.7	302.4	298.2	301.0	305.2	310.9	319.3	323.5	326.3	327.7	327.7
57.5°	295.4	291.2	287.0	289.8	294.0	299.6	308.1	312.3	315.1	319.3	320.7
60°	287.0	281.3	277.1	281.3	285.6	294.0	301.0	305.2	312.3	313.7	313.7
62.5°	278.5	272.9	265.9	270.1	270.1	274.3	281.3	287.0	294.0	296.8	296.8
63°	277.1	271.5	264.5	267.3	267.3	270.1	275.7	281.3	289.8	292.6	291.2
65°	265.9	264.5	257.4	257.4	254.6	257.4	261.6	267.3	271.5	275.7	275.7
67.5°	247.6	246.2	244.8	244.8	244.8	247.6	250.4	254.6	258.8	261.6	260.2
70°	226.5	226.5	226.5	227.9	227.9	230.7	232.1	230.7	234.9	237.7	236.3
72.5°	208.2	206.8	205.4	208.2	206.8	206.8	209.6	208.2	212.4	212.4	213.8
75°	188.5	187.1	187.1	188.5	185.7	182.9	184.3	184.3	185.7	185.7	188.5
77.5°	171.6	171.6	171.6	170.2	167.4	166.0	164.6	164.6	164.6	164.6	166.0
80°	156.1	156.1	156.1	154.7	151.9	149.1	146.3	144.9	143.5	136.4	136.4
82.5°	140.7	140.7	140.7	140.7	139.3	136.4	132.2	121.0	115.3	109.7	111.1
85°	111.1	113.9	116.8	121.0	119.6	119.6	111.1	97.1	88.6	83.0	84.4
87.5°	71.7	63.3	63.3	61.9	59.1	56.3	56.3	47.8	39.4	35.2	36.6
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: P152958

CATALOG NUMBER: TLM-E05-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1478.4	1475.6	1472.8	1472.8	1468.5	1468.5	1465.7	1471.4	1465.7	1461.5	1461.5
5°	1467.1	1464.3	1455.9	1454.5	1448.9	1448.9	1448.9	1446.0	1446.0	1443.2	1441.8
7.5°	1460.1	1453.1	1446.0	1441.8	1441.8	1439.0	1444.6	1441.8	1443.2	1443.2	1444.6
10°	1454.5	1448.9	1446.0	1444.6	1444.6	1448.9	1453.1	1454.5	1453.1	1454.5	1454.5
12.5°	1440.4	1443.2	1444.6	1450.3	1457.3	1465.7	1475.6	1477.0	1479.8	1479.8	1482.6
15°	1395.4	1402.4	1410.9	1424.9	1443.2	1461.5	1479.8	1495.3	1509.3	1516.4	1522.0
17.5°	1332.1	1339.1	1354.6	1370.1	1394.0	1420.7	1451.7	1478.4	1507.9	1534.7	1561.4
20°	1246.3	1257.5	1261.8	1289.9	1318.0	1354.6	1391.2	1433.4	1484.0	1534.7	1586.7
22.5°	1135.2	1147.8	1167.5	1190.0	1219.6	1264.6	1308.2	1374.3	1441.8	1513.6	1595.1
25°	1011.4	1025.4	1042.3	1066.2	1095.8	1143.6	1206.9	1277.2	1360.2	1454.5	1555.8
27.5°	883.4	897.4	911.5	928.4	962.1	1012.8	1087.3	1160.5	1251.9	1354.6	1472.8
30°	755.4	756.8	765.2	786.3	821.5	887.6	942.5	1033.9	1129.5	1237.9	1374.3
32.5°	614.7	613.3	623.1	641.4	675.2	738.5	806.0	894.6	988.9	1125.3	1266.0
35°	489.5	489.5	507.8	526.1	564.1	609.1	668.2	746.9	858.1	984.7	1125.3
37.5°	423.4	433.2	444.5	462.8	492.3	527.5	579.5	648.5	735.7	856.7	986.1
40°	402.3	407.9	417.8	434.7	460.0	492.3	530.3	582.4	649.9	746.9	865.1
42.5°	393.9	395.3	400.9	413.6	436.1	468.4	507.8	554.2	604.9	673.8	776.5
45°	385.4	384.0	386.8	396.7	415.0	451.5	496.5	547.2	597.8	655.5	739.9
47.5°	378.4	378.4	378.4	382.6	399.5	436.1	488.1	547.2	607.7	672.4	755.4
50°	358.7	357.3	357.3	360.1	372.8	412.1	474.0	545.8	624.6	709.0	803.2
52.5°	336.2	336.2	337.6	339.0	350.3	389.6	458.6	545.8	644.2	756.8	874.9
55°	329.2	330.6	332.0	330.6	339.0	372.8	441.7	537.3	652.7	794.8	952.3
57.5°	323.5	326.3	326.3	324.9	330.6	358.7	424.8	520.5	645.7	808.8	1007.2
60°	315.1	315.1	315.1	310.9	313.7	339.0	399.5	493.7	623.1	796.2	1015.6
62.5°	296.8	296.8	294.0	292.6	291.2	310.9	365.7	454.3	582.4	762.4	994.5
63°	292.6	291.2	291.2	287.0	287.0	305.2	358.7	448.7	571.1	754.0	986.1
65°	277.1	277.1	277.1	274.3	272.9	287.0	330.6	409.3	527.5	714.6	943.9
67.5°	260.2	261.6	258.8	257.4	256.0	264.5	298.2	360.1	460.0	631.6	865.1
70°	236.3	237.7	237.7	236.3	234.9	240.5	261.6	309.5	381.2	526.1	737.1
72.5°	215.2	218.0	218.0	220.8	220.8	225.1	233.5	257.4	305.2	410.7	579.5
75°	192.7	194.1	196.9	199.7	196.9	195.5	196.9	215.2	239.1	303.8	413.6
77.5°	173.0	177.2	177.2	175.8	171.6	168.8	168.8	177.2	196.9	230.7	295.4
80°	143.5	150.5	151.9	147.7	143.5	143.5	146.3	151.9	164.6	189.9	223.7
82.5°	115.3	122.4	123.8	125.2	123.8	128.0	128.0	129.4	136.4	156.1	182.9
85°	88.6	94.2	98.5	99.9	101.3	102.7	101.3	94.2	98.5	111.1	123.8
87.5°	39.4	40.8	38.0	39.4	38.0	39.4	40.8	33.8	32.4	43.6	45.0
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: P152958

CATALOG NUMBER: TLM-E05-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1460.1	1460.1	1461.5	1458.7	1458.7	1460.1	1455.9
5°	1437.6	1443.2	1443.2	1443.2	1440.4	1443.2	1444.6
7.5°	1443.2	1447.4	1450.3	1450.3	1448.9	1454.5	1458.7
10°	1450.3	1457.3	1460.1	1460.1	1460.1	1467.1	1477.0
12.5°	1477.0	1482.6	1486.8	1486.8	1489.6	1498.1	1509.3
15°	1526.2	1533.3	1533.3	1531.8	1540.3	1550.1	1562.8
17.5°	1581.1	1600.8	1610.6	1609.2	1616.2	1628.9	1643.0
20°	1633.1	1688.0	1711.9	1728.8	1735.8	1752.7	1756.9
22.5°	1676.7	1768.2	1834.3	1890.5	1917.3	1934.1	1953.8
25°	1661.3	1785.0	1903.2	2018.5	2100.1	2183.1	2218.3
27.5°	1598.0	1752.7	1907.4	2076.2	2223.9	2371.6	2478.5
30°	1520.6	1706.3	1914.5	2153.6	2387.1	2613.6	2793.6
32.5°	1432.0	1662.7	1929.9	2225.3	2532.0	2828.8	3089.0
35°	1320.8	1579.7	1891.9	2232.4	2593.9	2954.0	3291.6
37.5°	1180.2	1467.1	1803.3	2181.7	2596.7	3008.8	3412.5
40°	1039.5	1325.1	1690.8	2108.6	2560.1	3021.5	3488.5
42.5°	941.0	1198.5	1576.9	2015.7	2501.0	3001.8	3525.1
45°	873.5	1107.0	1475.6	1931.3	2437.7	2966.6	3530.7
47.5°	867.9	1067.6	1409.5	1869.4	2387.1	2935.7	3530.7
50°	915.7	1088.7	1387.0	1838.5	2366.0	2925.8	3533.5
52.5°	1005.8	1173.1	1427.8	1862.4	2382.9	2938.5	3546.2
55°	1114.1	1301.2	1537.5	1945.4	2454.6	2980.7	3574.3
57.5°	1212.5	1448.9	1724.6	2105.8	2585.4	3087.6	3653.1
60°	1270.2	1575.4	1922.9	2330.8	2809.1	3300.0	3810.6
62.5°	1277.2	1645.8	2098.7	2575.6	3080.6	3543.4	4062.4
63°	1271.6	1651.4	2121.2	2622.0	3138.2	3603.8	4149.6
65°	1240.7	1652.8	2184.5	2785.2	3338.0	3858.4	4393.0
67.5°	1161.9	1607.8	2207.0	2913.2	3589.8	4193.2	4847.3
70°	1025.4	1479.8	2140.9	2916.0	3686.8	4380.3	5134.3
72.5°	824.3	1236.4	1855.4	2652.9	3430.8	4196.0	5059.7
75°	603.5	908.7	1402.4	2055.1	2799.2	3492.7	4333.9
77.5°	400.9	588.0	945.3	1464.3	2007.3	2513.7	3120.0
80°	275.7	364.3	552.8	880.6	1228.0	1474.2	1987.6
82.5°	202.6	240.5	306.7	450.1	590.8	727.2	1038.1
85°	126.6	137.9	153.3	222.3	317.9	429.0	647.1
87.5°	33.8	35.2	32.4	43.6	68.9	66.1	73.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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