

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: P152960

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152960
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

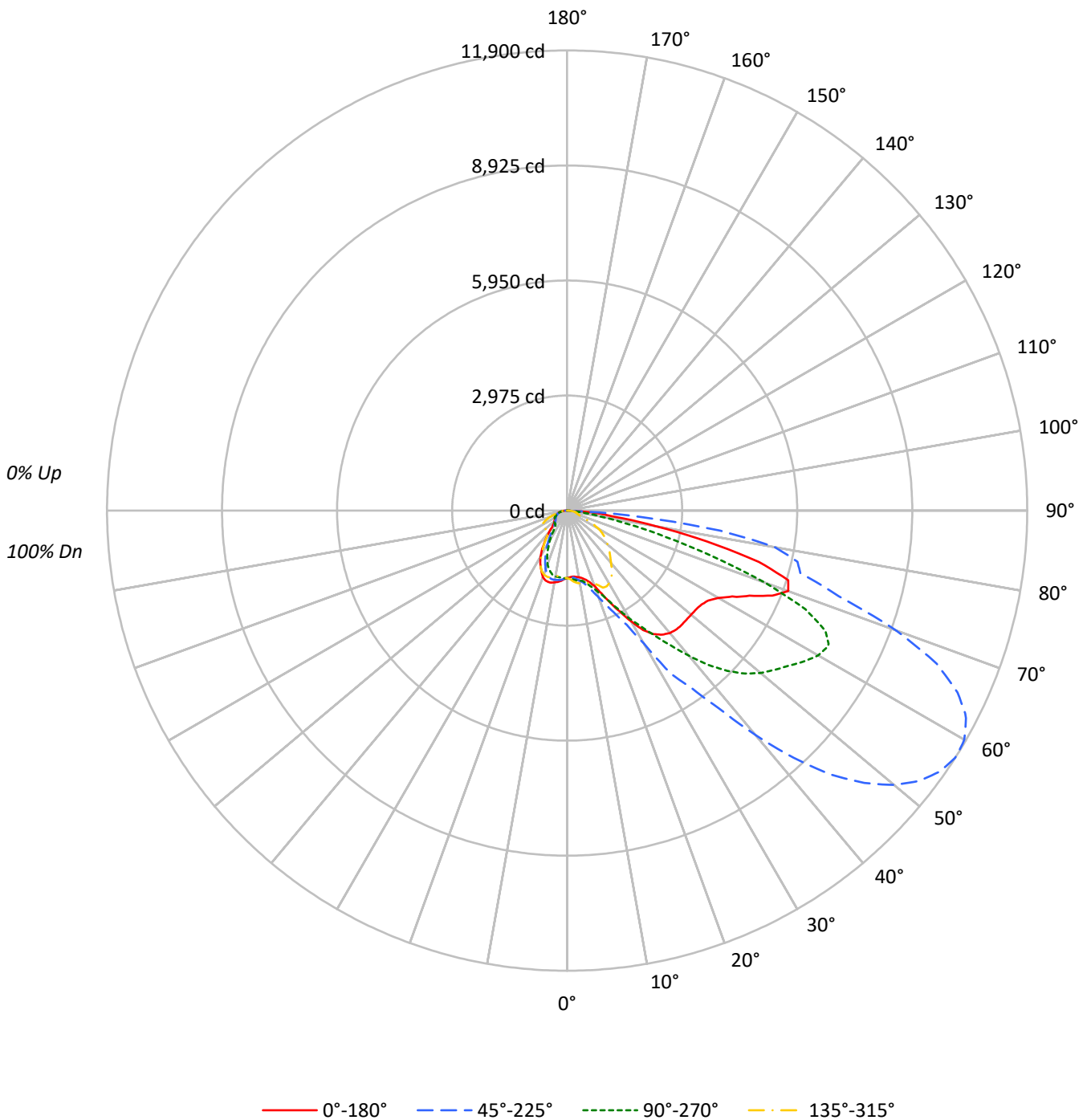
Lumens per Lamp: N/A
Luminaire Lumens: 13912.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P152960
CATALOG NUMBER: TLM-E05-LED-E1-SLL

Luminous Intensity Polar Plot





TEST NUMBER: P152960

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

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°	22673	22673	22673	22673
5°	22283	23259	23758	22674
10°	23045	24187	24823	22759
15°	24861	26136	25667	22153
20°	28729	30338	25301	20425
25°	37609	37157	23085	17243
30°	49567	48219	20590	13353
35°	61744	62404	16492	9130
40°	69974	82982	12076	7986
45°	76723	107474	9078	8376
50°	84469	131746	8675	8575
55°	95753	158082	8856	8779
60°	117106	194399	9641	9641
65°	159722	226210	10179	10025
70°	230664	205892	10742	10617
75°	257298	133284	11860	11189
80°	175879	64728	13570	12076
85°	114083	31500	16368	14880



TEST NUMBER: P152960

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.2
10°-20°	530.0	3.8
20°-30°	941.7	6.8
30°-40°	1482.9	10.7
40°-50°	2182.3	15.7
50°-60°	2898.7	20.8
60°-70°	3193.0	23.0
70°-80°	2003.3	14.4
80°-90°	510.2	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°	1641.9	11.8
0°-40°	3124.8	22.5
0°-60°	8205.8	59.0
0°-90°	13912.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13912.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1748	1748	1748	1748	1748	
5°	1712	1787	1825	1742	1712	165
15°	1852	1947	1912	1650	1852	536
25°	2628	2597	1613	1205	2628	1241
35°	3900	3942	1042	577	3900	2417
45°	4183	5860	495	457	4183	3234
55°	4235	6992	392	388	4235	3841
65°	5205	7372	332	327	5205	5240
75°	5135	2660	237	223	5135	5022
85°	767	212	110	100	767	886
90°	0	0	0	0	0	



TEST NUMBER: P152960

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1725.0	1728.3	1728.3	1726.7	1726.7	1730.0	1728.3	1726.7	1721.7	1728.3	1728.3
5°	1711.7	1715.0	1715.0	1718.3	1721.7	1725.0	1725.0	1728.3	1726.7	1733.3	1738.3
7.5°	1728.3	1731.7	1738.3	1746.7	1751.7	1763.3	1763.3	1771.7	1775.0	1780.0	1778.3
10°	1750.0	1758.3	1773.3	1786.7	1796.7	1810.0	1820.0	1831.7	1831.7	1836.7	1840.0
12.5°	1788.3	1796.7	1813.3	1830.0	1845.0	1861.7	1876.7	1888.3	1900.0	1903.3	1910.0
15°	1851.7	1861.7	1886.7	1910.0	1928.3	1950.0	1970.0	1993.3	2015.0	2020.0	2023.3
17.5°	1946.7	1966.7	1985.0	2026.7	2053.3	2081.7	2113.3	2146.7	2153.3	2188.3	2196.7
20°	2081.7	2106.7	2123.3	2175.0	2220.0	2256.7	2303.3	2341.7	2356.7	2390.0	2423.3
22.5°	2315.0	2310.0	2335.0	2386.7	2420.0	2493.3	2533.3	2573.3	2593.3	2643.3	2670.0
25°	2628.3	2655.0	2710.0	2715.0	2746.7	2831.7	2883.3	2923.3	2925.0	2940.0	2968.3
27.5°	2936.7	3046.7	3133.3	3180.0	3265.0	3343.3	3340.0	3396.7	3308.3	3326.7	3353.3
30°	3310.0	3493.3	3656.7	3766.7	3853.3	3945.0	3990.0	4021.7	3983.3	3966.7	3935.0
32.5°	3660.0	3916.7	4168.3	4363.3	4525.0	4676.7	4776.7	4821.7	4875.0	5010.0	5058.3
35°	3900.0	4263.3	4576.7	4858.3	5128.3	5370.0	5545.0	5645.0	5606.7	5588.3	5578.3
37.5°	4043.3	4486.7	4878.3	5276.7	5586.7	5948.3	6220.0	6483.3	6543.3	6438.3	6386.7
40°	4133.3	4658.3	5161.7	5631.7	6033.3	6500.0	6836.7	7231.7	7531.7	7571.7	7448.3
42.5°	4176.7	4773.3	5360.0	5891.7	6435.0	7006.7	7433.3	7911.7	8360.0	8668.3	8591.7
45°	4183.3	4848.3	5505.0	6126.7	6773.3	7451.7	8001.7	8531.7	9131.7	9660.0	9675.0
47.5°	4183.3	4905.0	5605.0	6296.7	7076.7	7838.3	8438.3	9065.0	9800.0	10425.0	10616.7
50°	4186.7	4943.3	5698.3	6430.0	7308.3	8165.0	8843.3	9583.3	10356.7	11036.7	11406.7
52.5°	4201.7	4971.7	5771.7	6525.0	7458.3	8395.0	9158.3	10011.7	10781.7	11480.0	11958.3
55°	4235.0	5011.7	5825.0	6583.3	7558.3	8545.0	9386.7	10305.0	11056.7	11765.0	12433.3
57.5°	4328.3	5081.7	5890.0	6635.0	7613.3	8643.3	9546.7	10431.7	11161.7	11900.0	12685.0
60°	4515.0	5230.0	6001.7	6738.3	7705.0	8825.0	9623.3	10346.7	11085.0	11860.0	12741.7
62.5°	4813.3	5461.7	6156.7	6913.3	7966.7	9106.7	9565.0	10093.3	10783.3	11628.3	12540.0
63°	4916.7	5511.7	6191.7	6951.7	8038.3	9158.3	9540.0	10018.3	10721.7	11555.0	12468.3
65°	5205.0	5733.3	6358.3	7145.0	8333.3	9210.0	9345.0	9628.3	10295.0	11136.7	12045.0
67.5°	5743.3	6271.7	6716.7	7471.7	8581.7	9006.7	8740.0	8775.0	9471.7	10343.3	11160.0
70°	6083.3	6713.3	6945.0	7513.3	8536.7	8705.0	7956.7	7493.3	8051.7	9045.0	9760.0
72.5°	5995.0	6718.3	6693.3	6958.3	7636.7	7793.3	7018.3	6288.3	6620.0	7361.7	7825.0
75°	5135.0	6000.0	5816.7	5763.3	6001.7	6105.0	5523.3	5411.7	5830.0	6241.7	6248.3
77.5°	3696.7	4648.3	4433.3	4125.0	4108.3	4346.7	4425.0	5156.7	5775.0	6100.0	5956.7
80°	2355.0	3386.7	3163.3	2625.0	2616.7	2926.7	3615.0	4610.0	5265.0	5446.7	5073.3
82.5°	1230.0	2216.7	2301.7	1970.0	2255.0	2768.3	3440.0	3715.0	3963.3	3988.3	3548.3
85°	766.7	1363.3	1603.3	1655.0	2036.7	2455.0	2450.0	2353.3	2243.3	1920.0	1736.7
87.5°	86.7	171.7	260.0	246.7	331.7	465.0	580.0	340.0	238.3	86.7	120.0
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: P152960

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1731.7	1733.3	1735.0	1735.0	1743.3	1741.7	1743.3	1746.7	1751.7	1755.0	1758.3
5°	1745.0	1745.0	1751.7	1756.7	1766.7	1773.3	1776.7	1786.7	1798.3	1795.0	1805.0
7.5°	1788.3	1786.7	1793.3	1796.7	1805.0	1816.7	1815.0	1823.3	1833.3	1836.7	1845.0
10°	1846.7	1841.7	1841.7	1838.3	1840.0	1836.7	1836.7	1836.7	1843.3	1841.7	1848.3
12.5°	1906.7	1905.0	1901.7	1891.7	1891.7	1878.3	1871.7	1863.3	1861.7	1850.0	1851.7
15°	2030.0	2030.0	2023.3	2003.3	1986.7	1975.0	1958.3	1946.7	1930.0	1908.3	1896.7
17.5°	2210.0	2186.7	2178.3	2175.0	2148.3	2138.3	2101.7	2063.3	2045.0	2015.0	1998.3
20°	2430.0	2425.0	2391.7	2375.0	2341.7	2295.0	2248.3	2198.3	2168.3	2131.7	2111.7
22.5°	2678.3	2641.7	2625.0	2600.0	2548.3	2495.0	2425.0	2358.3	2311.7	2286.7	2271.7
25°	2968.3	2931.7	2915.0	2881.7	2818.3	2761.7	2675.0	2596.7	2555.0	2513.3	2490.0
27.5°	3353.3	3318.3	3298.3	3211.7	3190.0	3096.7	2990.0	2883.3	2828.3	2766.7	2726.7
30°	3928.3	3930.0	3826.7	3721.7	3613.3	3451.7	3340.0	3220.0	3130.0	3041.7	2953.3
32.5°	4900.0	4651.7	4460.0	4235.0	4000.0	3828.3	3690.0	3546.7	3421.7	3293.3	3146.7
35°	5493.3	5373.3	5125.0	4713.3	4476.7	4268.3	4115.0	3941.7	3788.3	3561.7	3338.3
37.5°	6163.3	5885.0	5583.3	5355.0	5086.7	4845.0	4588.3	4391.7	4126.7	3821.7	3505.0
40°	7141.7	6743.3	6380.0	6073.3	5726.7	5473.3	5186.7	4901.7	4550.0	4108.3	3673.3
42.5°	8163.3	7751.7	7271.7	6873.3	6465.0	6168.3	5813.3	5413.3	4896.7	4350.0	3818.3
45°	9235.0	8685.0	8110.0	7623.3	7198.3	6830.0	6390.0	5860.0	5230.0	4566.7	3953.3
47.5°	10291.7	9660.0	8975.0	8451.7	7898.3	7448.3	6908.3	6238.3	5490.0	4771.7	4088.3
50°	11223.3	10615.0	9790.0	9125.0	8565.0	8010.0	7336.7	6530.0	5695.0	4948.3	4210.0
52.5°	12026.7	11503.3	10635.0	9795.0	9150.0	8526.7	7681.7	6765.0	5901.7	5111.7	4310.0
55°	12616.7	12268.3	11468.3	10426.7	9665.0	8921.7	7973.3	6991.7	6096.7	5241.7	4375.0
57.5°	13061.7	12868.3	12181.7	11021.7	10138.3	9305.0	8275.0	7263.3	6290.0	5353.3	4405.0
60°	13305.0	13358.3	12721.7	11541.7	10556.7	9625.0	8576.7	7495.0	6433.3	5418.3	4388.3
62.5°	13281.7	13608.3	13126.7	11861.7	10800.0	9815.0	8780.0	7603.3	6413.3	5315.0	4236.7
63°	13236.7	13616.7	13171.7	11883.3	10815.0	9821.7	8785.0	7588.3	6371.7	5265.0	4176.7
65°	12848.3	13425.0	13133.3	11785.0	10681.7	9696.7	8680.0	7371.7	6078.3	4996.7	3868.3
67.5°	11808.3	12530.0	12446.7	11090.0	10050.0	9180.0	8143.3	6673.3	5353.3	4336.7	3278.3
70°	10090.0	10768.3	10783.3	9645.0	8776.7	7923.3	7061.7	5430.0	4243.3	3361.7	2445.0
72.5°	7733.3	8170.0	8321.7	7571.7	6990.0	6390.0	5616.7	3941.7	3025.0	2286.7	1591.7
75°	5988.3	5868.3	5866.7	5550.0	5313.3	5020.0	4170.0	2660.0	1986.7	1486.7	973.3
77.5°	5383.3	4850.0	4333.3	3953.3	3763.3	3665.0	2735.0	1603.3	1171.7	855.0	560.0
80°	4440.0	3653.3	2951.7	2541.7	2378.3	2491.7	1525.0	866.7	641.7	486.7	363.3
82.5°	3061.7	2541.7	1931.7	1600.0	1373.3	1436.7	780.0	443.3	296.7	271.7	225.0
85°	1595.0	1398.3	1180.0	1013.3	895.0	786.7	405.0	211.7	123.3	108.3	98.3
87.5°	0.0	1.7	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



TEST NUMBER: P152960

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1763.3	1761.7	1765.0	1766.7	1771.7	1775.0	1776.7	1773.3	1778.3	1783.3	1780.0
5°	1810.0	1821.7	1823.3	1828.3	1828.3	1838.3	1838.3	1838.3	1836.7	1838.3	1835.0
7.5°	1850.0	1865.0	1866.7	1873.3	1875.0	1886.7	1881.7	1885.0	1885.0	1876.7	1873.3
10°	1855.0	1870.0	1878.3	1886.7	1898.3	1913.3	1913.3	1921.7	1921.7	1915.0	1913.3
12.5°	1856.7	1868.3	1876.7	1888.3	1905.0	1926.7	1938.3	1950.0	1955.0	1953.3	1948.3
15°	1891.7	1891.7	1893.3	1903.3	1915.0	1941.7	1958.3	1971.7	1980.0	1976.7	1968.3
17.5°	1983.3	1970.0	1960.0	1943.3	1946.7	1960.0	1970.0	1981.7	1983.3	1980.0	1966.7
20°	2090.0	2073.3	2048.3	2021.7	2008.3	1998.3	1991.7	1991.7	1986.7	1970.0	1948.3
22.5°	2241.7	2220.0	2185.0	2145.0	2118.3	2086.7	2048.3	2011.7	1971.7	1931.7	1885.0
25°	2451.7	2421.7	2385.0	2323.3	2266.7	2200.0	2121.7	2040.0	1945.0	1861.7	1793.3
27.5°	2663.3	2596.7	2501.7	2416.7	2311.7	2211.7	2100.0	2000.0	1878.3	1778.3	1703.3
30°	2838.3	2711.7	2575.0	2440.0	2301.7	2166.7	2033.3	1913.3	1780.0	1678.3	1605.0
32.5°	2973.3	2798.3	2608.3	2431.7	2261.7	2096.7	1943.3	1810.0	1675.0	1570.0	1491.7
35°	3098.3	2855.0	2613.3	2395.0	2185.0	2013.3	1840.0	1695.0	1551.7	1441.7	1356.7
37.5°	3191.7	2881.7	2583.3	2326.7	2085.0	1893.3	1716.7	1568.3	1421.7	1301.7	1205.0
40°	3251.7	2865.0	2518.3	2228.3	1966.7	1765.0	1585.0	1431.7	1290.0	1158.3	1041.7
42.5°	3300.0	2843.3	2453.3	2138.3	1873.3	1653.3	1468.3	1303.3	1160.0	1016.7	888.3
45°	3371.7	2860.0	2425.0	2075.0	1790.0	1558.3	1355.0	1183.3	1033.3	893.3	770.0
47.5°	3441.7	2868.3	2383.3	1996.7	1685.0	1460.0	1253.3	1086.7	933.3	805.0	691.7
50°	3505.0	2863.3	2318.3	1896.7	1583.3	1361.7	1161.7	995.0	843.3	725.0	618.3
52.5°	3535.0	2835.0	2238.3	1800.0	1501.7	1275.0	1071.7	910.0	760.0	648.3	550.0
55°	3531.7	2761.7	2133.3	1708.3	1411.7	1183.3	983.3	823.3	688.3	585.0	500.0
57.5°	3481.7	2648.3	2021.7	1606.7	1293.3	1070.0	880.0	725.0	611.7	525.0	453.3
60°	3376.7	2503.3	1875.0	1458.3	1145.0	930.0	751.7	618.3	526.7	460.0	413.3
62.5°	3180.0	2295.0	1691.7	1251.7	945.0	748.3	593.3	506.7	438.3	398.3	376.7
63°	3121.7	2238.3	1613.3	1201.7	898.3	706.7	560.0	470.0	420.0	385.0	365.0
65°	2831.7	1960.0	1350.0	970.0	698.3	545.0	450.0	381.7	351.7	336.7	335.0
67.5°	2293.3	1541.7	955.0	665.0	475.0	393.3	345.0	316.7	303.3	300.0	303.3
70°	1610.0	973.3	606.7	441.7	351.7	316.7	295.0	283.3	275.0	276.7	280.0
72.5°	1026.7	583.3	416.7	335.0	296.7	278.3	268.3	265.0	263.3	261.7	261.7
75°	585.0	388.3	320.0	290.0	270.0	255.0	246.7	243.3	245.0	246.7	243.3
77.5°	386.7	320.0	285.0	265.0	246.7	230.0	225.0	223.3	226.7	230.0	230.0
80°	305.0	285.0	265.0	245.0	215.0	203.3	206.7	208.3	206.7	208.3	203.3
82.5°	215.0	211.7	216.7	208.3	178.3	168.3	165.0	166.7	163.3	163.3	160.0
85°	100.0	100.0	105.0	105.0	101.7	103.3	111.7	121.7	126.7	121.7	115.0
87.5°	0.0	0.0	0.0	0.0	0.0	15.0	30.0	43.3	46.7	58.3	56.7
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: P152960

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1775.0	1778.3	1776.7	1775.0	1778.3	1775.0	1776.7	1775.0	1775.0	1773.3	1773.3
5°	1831.7	1836.7	1826.7	1825.0	1821.7	1813.3	1813.3	1810.0	1810.0	1803.3	1798.3
7.5°	1868.3	1870.0	1861.7	1860.0	1851.7	1843.3	1836.7	1830.0	1828.3	1823.3	1813.3
10°	1903.3	1900.0	1893.3	1885.0	1876.7	1865.0	1856.7	1848.3	1846.7	1838.3	1826.7
12.5°	1933.3	1931.7	1918.3	1910.0	1896.7	1885.0	1875.0	1865.0	1860.0	1850.0	1833.3
15°	1953.3	1943.3	1926.7	1911.7	1896.7	1883.3	1871.7	1860.0	1855.0	1843.3	1826.7
17.5°	1945.0	1926.7	1905.0	1886.7	1866.7	1850.0	1840.0	1828.3	1820.0	1813.3	1790.0
20°	1915.0	1888.3	1855.0	1833.3	1806.7	1785.0	1778.3	1766.7	1760.0	1735.0	1705.0
22.5°	1836.7	1798.3	1756.7	1725.0	1695.0	1673.3	1656.7	1645.0	1628.3	1613.3	1566.7
25°	1738.3	1695.0	1651.7	1613.3	1573.3	1540.0	1510.0	1481.7	1473.3	1441.7	1396.7
27.5°	1643.3	1595.0	1551.7	1506.7	1455.0	1413.3	1361.7	1321.7	1295.0	1261.7	1220.0
30°	1541.7	1493.3	1435.0	1375.0	1315.0	1270.0	1211.7	1163.3	1130.0	1095.0	1056.7
32.5°	1413.3	1355.0	1285.0	1218.3	1163.3	1110.0	1051.7	1005.0	971.7	940.0	903.3
35°	1266.7	1190.0	1115.0	1041.7	983.3	938.3	886.7	851.7	828.3	800.0	761.7
37.5°	1098.3	1011.7	931.7	875.0	823.3	780.0	743.3	721.7	696.7	681.7	658.3
40°	928.3	843.3	765.0	713.3	670.0	645.0	625.0	620.0	603.3	583.3	568.3
42.5°	778.3	696.7	620.0	578.3	550.0	543.3	533.3	533.3	525.0	510.0	500.0
45°	676.7	591.7	525.0	495.0	480.0	478.3	473.3	473.3	471.7	465.0	453.3
47.5°	603.3	526.7	475.0	456.7	453.3	450.0	445.0	443.3	441.7	436.7	430.0
50°	536.7	471.7	438.3	430.0	431.7	426.7	421.7	416.7	415.0	410.0	403.3
52.5°	475.0	428.3	406.7	401.7	401.7	401.7	398.3	398.3	395.0	393.3	386.7
55°	440.0	405.0	393.3	391.7	390.0	388.3	385.0	385.0	381.7	380.0	371.7
57.5°	410.0	388.3	381.7	378.3	376.7	373.3	371.7	371.7	371.7	371.7	361.7
60°	386.7	376.7	375.0	371.7	370.0	363.3	360.0	358.3	360.0	361.7	351.7
62.5°	361.7	360.0	358.3	355.0	353.3	346.7	341.7	338.3	341.7	345.0	343.3
63°	355.0	353.3	353.3	351.7	350.0	341.7	336.7	333.3	336.7	340.0	340.0
65°	331.7	333.3	333.3	331.7	330.0	325.0	318.3	315.0	316.7	321.7	323.3
67.5°	306.7	308.3	306.7	308.3	306.7	303.3	298.3	295.0	293.3	295.0	296.7
70°	283.3	286.7	285.0	283.3	281.7	281.7	278.3	273.3	271.7	270.0	270.0
72.5°	263.3	263.3	260.0	260.0	258.3	258.3	255.0	250.0	248.3	248.3	245.0
75°	241.7	241.7	236.7	236.7	233.3	235.0	231.7	226.7	225.0	225.0	223.3
77.5°	228.3	223.3	215.0	213.3	211.7	211.7	210.0	205.0	203.3	203.3	201.7
80°	201.7	191.7	183.3	181.7	183.3	186.7	186.7	183.3	183.3	183.3	183.3
82.5°	156.7	153.3	148.3	145.0	145.0	150.0	156.7	160.0	163.3	166.7	166.7
85°	115.0	116.7	115.0	110.0	108.3	113.3	120.0	126.7	128.3	135.0	133.3
87.5°	61.7	63.3	58.3	56.7	61.7	65.0	71.7	73.3	76.7	78.3	80.0
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: P152960

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1771.7	1770.0	1771.7	1768.3	1768.3	1765.0	1761.7	1760.0	1756.7	1755.0	1751.7
5°	1801.7	1796.7	1791.7	1790.0	1783.3	1776.7	1771.7	1763.3	1756.7	1745.0	1741.7
7.5°	1821.7	1810.0	1803.3	1801.7	1791.7	1786.7	1775.0	1765.0	1755.0	1740.0	1735.0
10°	1830.0	1818.3	1806.7	1801.7	1790.0	1781.7	1770.0	1755.0	1746.7	1731.7	1728.3
12.5°	1840.0	1818.3	1800.0	1786.7	1770.0	1751.7	1740.0	1731.7	1720.0	1711.7	1708.3
15°	1821.7	1793.3	1765.0	1740.0	1713.3	1693.3	1681.7	1668.3	1655.0	1650.0	1650.0
17.5°	1771.7	1735.0	1686.7	1655.0	1626.7	1605.0	1590.0	1576.7	1575.0	1568.3	1571.7
20°	1668.3	1620.0	1573.3	1550.0	1533.3	1520.0	1505.0	1498.3	1493.3	1483.3	1480.0
22.5°	1525.0	1485.0	1451.7	1435.0	1421.7	1405.0	1391.7	1371.7	1366.7	1356.7	1351.7
25°	1366.7	1335.0	1306.7	1295.0	1286.7	1263.3	1255.0	1228.3	1210.0	1198.3	1205.0
27.5°	1208.3	1185.0	1158.3	1143.3	1138.3	1116.7	1108.3	1078.3	1063.3	1063.3	1046.7
30°	1045.0	1023.3	1006.7	990.0	986.7	960.0	938.3	926.7	910.0	903.3	891.7
32.5°	891.7	870.0	856.7	848.3	835.0	813.3	791.7	771.7	745.0	735.0	730.0
35°	750.0	733.3	716.7	710.0	691.7	668.3	641.7	625.0	593.3	581.7	576.7
37.5°	641.7	621.7	610.0	591.7	573.3	548.3	528.3	513.3	501.7	496.7	496.7
40°	555.0	540.0	526.7	511.7	496.7	483.3	473.3	470.0	468.3	468.3	471.7
42.5°	490.0	476.7	470.0	461.7	456.7	456.7	455.0	456.7	458.3	460.0	465.0
45°	446.7	438.3	435.0	433.3	436.7	440.0	441.7	445.0	451.7	455.0	456.7
47.5°	423.3	416.7	415.0	416.7	421.7	428.3	435.0	440.0	445.0	446.7	448.3
50°	400.0	391.7	388.3	391.7	398.3	408.3	413.3	421.7	425.0	428.3	425.0
52.5°	380.0	373.3	371.7	371.7	378.3	385.0	391.7	398.3	400.0	400.0	398.3
55°	363.3	358.3	353.3	356.7	361.7	368.3	378.3	383.3	386.7	388.3	388.3
57.5°	350.0	345.0	340.0	343.3	348.3	355.0	365.0	370.0	373.3	378.3	380.0
60°	340.0	333.3	328.3	333.3	338.3	348.3	356.7	361.7	370.0	371.7	371.7
62.5°	330.0	323.3	315.0	320.0	320.0	325.0	333.3	340.0	348.3	351.7	351.7
63°	328.3	321.7	313.3	316.7	316.7	320.0	326.7	333.3	343.3	346.7	345.0
65°	315.0	313.3	305.0	305.0	301.7	305.0	310.0	316.7	321.7	326.7	326.7
67.5°	293.3	291.7	290.0	290.0	290.0	293.3	296.7	301.7	306.7	310.0	308.3
70°	268.3	268.3	268.3	270.0	270.0	273.3	275.0	273.3	278.3	281.7	280.0
72.5°	246.7	245.0	243.3	246.7	245.0	245.0	248.3	246.7	251.7	251.7	253.3
75°	223.3	221.7	221.7	223.3	220.0	216.7	218.3	218.3	220.0	220.0	223.3
77.5°	203.3	203.3	203.3	201.7	198.3	196.7	195.0	195.0	195.0	195.0	196.7
80°	185.0	185.0	185.0	183.3	180.0	176.7	173.3	171.7	170.0	161.7	161.7
82.5°	166.7	166.7	166.7	166.7	165.0	161.7	156.7	143.3	136.7	130.0	131.7
85°	131.7	135.0	138.3	143.3	141.7	141.7	131.7	115.0	105.0	98.3	100.0
87.5°	85.0	75.0	75.0	73.3	70.0	66.7	66.7	56.7	46.7	41.7	43.3
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: P152960

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1751.7	1748.3	1745.0	1745.0	1740.0	1740.0	1736.7	1743.3	1736.7	1731.7	1731.7
5°	1738.3	1735.0	1725.0	1723.3	1716.7	1716.7	1716.7	1713.3	1713.3	1710.0	1708.3
7.5°	1730.0	1721.7	1713.3	1708.3	1708.3	1705.0	1711.7	1708.3	1710.0	1710.0	1711.7
10°	1723.3	1716.7	1713.3	1711.7	1711.7	1716.7	1721.7	1723.3	1721.7	1723.3	1723.3
12.5°	1706.7	1710.0	1711.7	1718.3	1726.7	1736.7	1748.3	1750.0	1753.3	1753.3	1756.7
15°	1653.3	1661.7	1671.7	1688.3	1710.0	1731.7	1753.3	1771.7	1788.3	1796.7	1803.3
17.5°	1578.3	1586.7	1605.0	1623.3	1651.7	1683.3	1720.0	1751.7	1786.7	1818.3	1850.0
20°	1476.7	1490.0	1495.0	1528.3	1561.7	1605.0	1648.3	1698.3	1758.3	1818.3	1880.0
22.5°	1345.0	1360.0	1383.3	1410.0	1445.0	1498.3	1550.0	1628.3	1708.3	1793.3	1890.0
25°	1198.3	1215.0	1235.0	1263.3	1298.3	1355.0	1430.0	1513.3	1611.7	1723.3	1843.3
27.5°	1046.7	1063.3	1080.0	1100.0	1140.0	1200.0	1288.3	1375.0	1483.3	1605.0	1745.0
30°	895.0	896.7	906.7	931.7	973.3	1051.7	1116.7	1225.0	1338.3	1466.7	1628.3
32.5°	728.3	726.7	738.3	760.0	800.0	875.0	955.0	1060.0	1171.7	1333.3	1500.0
35°	580.0	580.0	601.7	623.3	668.3	721.7	791.7	885.0	1016.7	1166.7	1333.3
37.5°	501.7	513.3	526.7	548.3	583.3	625.0	686.7	768.3	871.7	1015.0	1168.3
40°	476.7	483.3	495.0	515.0	545.0	583.3	628.3	690.0	770.0	885.0	1025.0
42.5°	466.7	468.3	475.0	490.0	516.7	555.0	601.7	656.7	716.7	798.3	920.0
45°	456.7	455.0	458.3	470.0	491.7	535.0	588.3	648.3	708.3	776.7	876.7
47.5°	448.3	448.3	448.3	453.3	473.3	516.7	578.3	648.3	720.0	796.7	895.0
50°	425.0	423.3	423.3	426.7	441.7	488.3	561.7	646.7	740.0	840.0	951.7
52.5°	398.3	398.3	400.0	401.7	415.0	461.7	543.3	646.7	763.3	896.7	1036.7
55°	390.0	391.7	393.3	391.7	401.7	441.7	523.3	636.7	773.3	941.7	1128.3
57.5°	383.3	386.7	386.7	385.0	391.7	425.0	503.3	616.7	765.0	958.3	1193.3
60°	373.3	373.3	373.3	368.3	371.7	401.7	473.3	585.0	738.3	943.3	1203.3
62.5°	351.7	351.7	348.3	346.7	345.0	368.3	433.3	538.3	690.0	903.3	1178.3
63°	346.7	345.0	345.0	340.0	340.0	361.7	425.0	531.7	676.7	893.3	1168.3
65°	328.3	328.3	328.3	325.0	323.3	340.0	391.7	485.0	625.0	846.7	1118.3
67.5°	308.3	310.0	306.7	305.0	303.3	313.3	353.3	426.7	545.0	748.3	1025.0
70°	280.0	281.7	281.7	280.0	278.3	285.0	310.0	366.7	451.7	623.3	873.3
72.5°	255.0	258.3	258.3	261.7	261.7	266.7	276.7	305.0	361.7	486.7	686.7
75°	228.3	230.0	233.3	236.7	233.3	231.7	233.3	255.0	283.3	360.0	490.0
77.5°	205.0	210.0	210.0	208.3	203.3	200.0	200.0	210.0	233.3	273.3	350.0
80°	170.0	178.3	180.0	175.0	170.0	170.0	173.3	180.0	195.0	225.0	265.0
82.5°	136.7	145.0	146.7	148.3	146.7	151.7	151.7	153.3	161.7	185.0	216.7
85°	105.0	111.7	116.7	118.3	120.0	121.7	120.0	111.7	116.7	131.7	146.7
87.5°	46.7	48.3	45.0	46.7	45.0	46.7	48.3	40.0	38.3	51.7	53.3
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: P152960

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1730.0	1730.0	1731.7	1728.3	1728.3	1730.0	1725.0
5°	1703.3	1710.0	1710.0	1710.0	1706.7	1710.0	1711.7
7.5°	1710.0	1715.0	1718.3	1718.3	1716.7	1723.3	1728.3
10°	1718.3	1726.7	1730.0	1730.0	1730.0	1738.3	1750.0
12.5°	1750.0	1756.7	1761.7	1761.7	1765.0	1775.0	1788.3
15°	1808.3	1816.7	1816.7	1815.0	1825.0	1836.7	1851.7
17.5°	1873.3	1896.7	1908.3	1906.7	1915.0	1930.0	1946.7
20°	1935.0	2000.0	2028.3	2048.3	2056.7	2076.7	2081.7
22.5°	1986.7	2095.0	2173.3	2240.0	2271.7	2291.7	2315.0
25°	1968.3	2115.0	2255.0	2391.7	2488.3	2586.7	2628.3
27.5°	1893.3	2076.7	2260.0	2460.0	2635.0	2810.0	2936.7
30°	1801.7	2021.7	2268.3	2551.7	2828.3	3096.7	3310.0
32.5°	1696.7	1970.0	2286.7	2636.7	3000.0	3351.7	3660.0
35°	1565.0	1871.7	2241.7	2645.0	3073.3	3500.0	3900.0
37.5°	1398.3	1738.3	2136.7	2585.0	3076.7	3565.0	4043.3
40°	1231.7	1570.0	2003.3	2498.3	3033.3	3580.0	4133.3
42.5°	1115.0	1420.0	1868.3	2388.3	2963.3	3556.7	4176.7
45°	1035.0	1311.7	1748.3	2288.3	2888.3	3515.0	4183.3
47.5°	1028.3	1265.0	1670.0	2215.0	2828.3	3478.3	4183.3
50°	1085.0	1290.0	1643.3	2178.3	2803.3	3466.7	4186.7
52.5°	1191.7	1390.0	1691.7	2206.7	2823.3	3481.7	4201.7
55°	1320.0	1541.7	1821.7	2305.0	2908.3	3531.7	4235.0
57.5°	1436.7	1716.7	2043.3	2495.0	3063.3	3658.3	4328.3
60°	1505.0	1866.7	2278.3	2761.7	3328.3	3910.0	4515.0
62.5°	1513.3	1950.0	2486.7	3051.7	3650.0	4198.3	4813.3
63°	1506.7	1956.7	2513.3	3106.7	3718.3	4270.0	4916.7
65°	1470.0	1958.3	2588.3	3300.0	3955.0	4571.7	5205.0
67.5°	1376.7	1905.0	2615.0	3451.7	4253.3	4968.3	5743.3
70°	1215.0	1753.3	2536.7	3455.0	4368.3	5190.0	6083.3
72.5°	976.7	1465.0	2198.3	3143.3	4065.0	4971.7	5995.0
75°	715.0	1076.7	1661.7	2435.0	3316.7	4138.3	5135.0
77.5°	475.0	696.7	1120.0	1735.0	2378.3	2978.3	3696.7
80°	326.7	431.7	655.0	1043.3	1455.0	1746.7	2355.0
82.5°	240.0	285.0	363.3	533.3	700.0	861.7	1230.0
85°	150.0	163.3	181.7	263.3	376.7	508.3	766.7
87.5°	40.0	41.7	38.3	51.7	81.7	78.3	86.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)