

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: P151209

Luminaire Tested: **TLM-E01-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151209
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-SL3-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

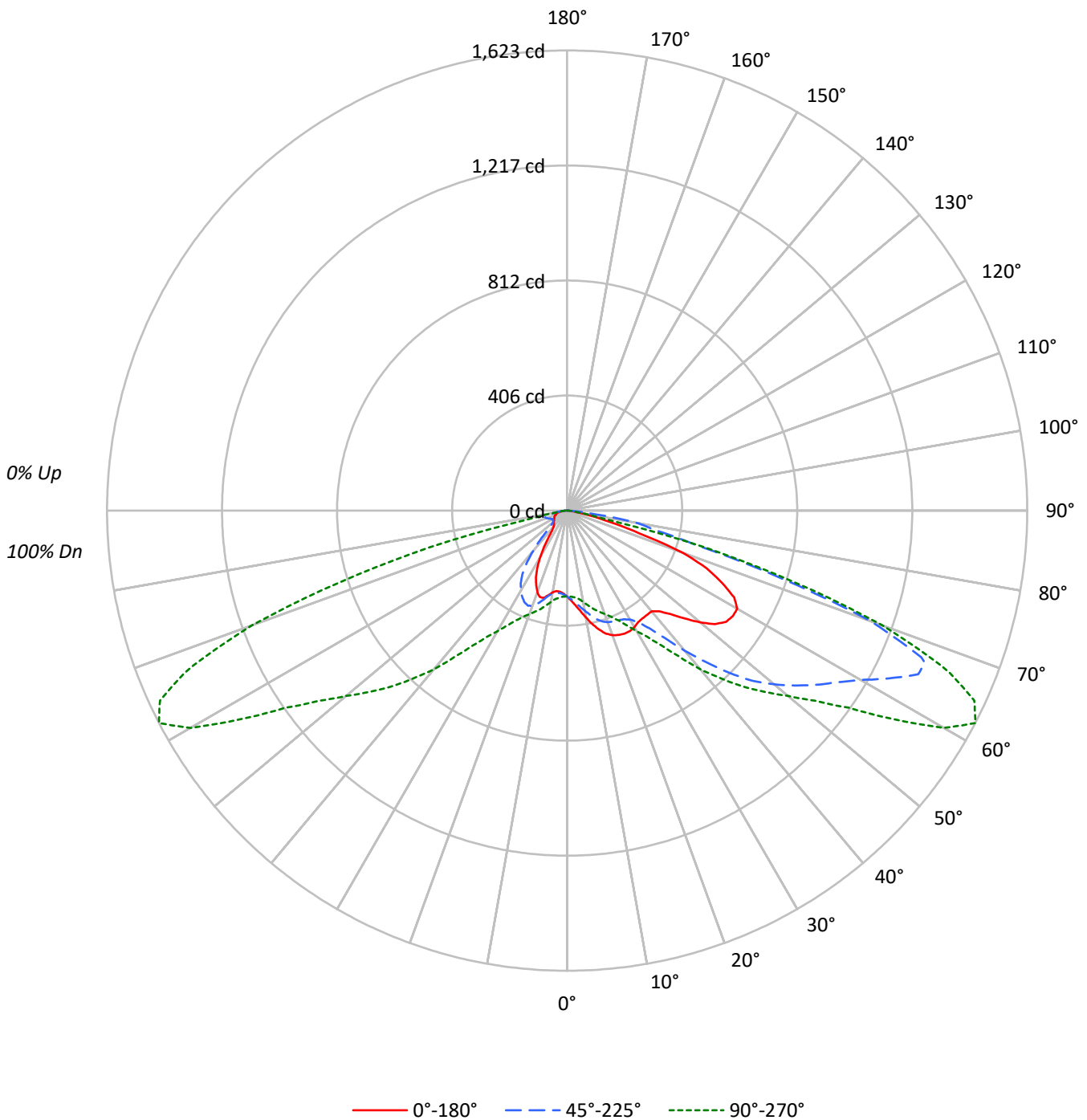
Lumens per Lamp: N/A
Luminaire Lumens: 2773.1 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	93	82	74	66	90	80	72	65	77	70	64	73	67	62	70	65	61	58
3	82	69	59	50	79	67	58	50	64	56	49	61	54	48	58	52	47	44
4	73	59	48	39	71	57	47	39	54	46	38	52	44	38	49	43	37	35
5	66	51	40	32	64	49	39	31	47	38	31	45	37	31	43	36	30	28
6	60	44	34	26	58	43	33	26	41	32	26	39	31	25	38	31	25	23
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19
8	51	35	25	19	49	35	25	19	33	25	18	32	24	18	30	23	18	16
9	47	32	23	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19179	19179	19179
5°	21305	19544	18267
10°	24625	20986	18832
15°	28482	23526	20898
20°	31507	26198	20679
25°	33436	29859	18122
30°	34699	35862	13826
35°	35865	44924	8425
40°	38302	60346	6141
45°	46267	78646	5919
50°	60432	100169	5969
55°	75485	133859	6182
60°	87707	194080	6598
65°	90222	237422	7341
70°	80308	218524	8109
75°	38580	123494	9468
80°	13309	17101	9663
85°	5957	10607	9735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	1.1
10°-20°	103.4	3.7
20°-30°	182.6	6.6
30°-40°	262.1	9.5
40°-50°	398.1	14.4
50°-60°	586.1	21.1
60°-70°	778.9	28.1
70°-80°	381.1	13.7
80°-90°	50.6	1.8
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°	316.2	11.4
0°-40°	578.3	20.9
0°-60°	1562.5	56.3
0°-90°	2773.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	303	303	303	303	303	
5°	335	326	308	292	287	33
15°	434	396	359	325	319	123
25°	479	426	427	356	259	220
35°	464	507	581	275	109	292
45°	517	810	878	99	66	408
55°	684	1072	1213	60	56	603
65°	602	1367	1585	67	49	585
75°	158	470	505	78	39	196
85°	8	26	15	19	13	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	317.2	317.5	316.9	316.6	314.8	313.0	311.8	310.2	310.2	310.2	309.6
5°	335.2	334.0	334.9	332.8	329.1	325.8	322.4	319.7	319.1	319.1	317.8
7.5°	356.8	355.3	354.7	351.6	346.2	341.3	334.6	331.9	330.3	329.7	329.1
10°	383.0	383.0	379.0	373.9	366.6	358.0	350.7	345.9	345.6	345.6	342.8
12.5°	409.8	410.4	405.2	400.0	388.2	376.9	368.4	362.9	362.6	361.4	359.9
15°	434.5	432.9	429.6	422.0	408.9	395.5	384.8	379.3	378.1	376.9	376.0
17.5°	454.8	453.3	449.1	439.3	425.6	409.8	396.7	390.9	390.3	389.7	388.5
20°	467.6	466.4	460.3	449.1	434.8	418.6	404.6	400.7	399.4	399.4	398.8
22.5°	474.9	473.1	464.3	449.4	435.4	423.5	411.9	409.5	408.6	408.9	408.9
25°	478.6	477.1	464.6	443.3	429.9	426.5	421.7	420.1	420.4	420.8	421.4
27.5°	479.2	477.1	462.5	435.4	422.9	432.3	435.7	438.1	438.1	439.3	441.5
30°	474.6	472.2	458.2	429.3	419.8	443.9	457.3	463.7	466.1	465.5	470.4
32.5°	466.7	465.2	453.9	429.3	428.4	466.7	490.5	499.6	500.8	501.4	506.9
35°	464.0	463.7	458.8	443.9	454.8	506.9	543.1	550.1	551.7	551.7	555.6
37.5°	463.4	464.9	470.4	471.3	501.4	566.6	614.1	624.7	624.7	627.8	627.8
40°	463.4	466.7	487.4	512.1	558.4	644.2	710.0	722.2	722.2	725.5	723.7
42.5°	481.3	486.2	520.3	567.2	630.2	724.3	799.8	813.5	814.4	813.5	816.2
45°	516.7	520.9	562.3	629.6	704.2	810.1	885.6	902.1	898.7	900.9	901.8
47.5°	563.5	570.2	617.4	697.8	776.3	889.6	981.9	996.8	995.6	996.5	992.5
50°	613.5	620.5	673.1	765.4	848.2	953.5	1059.2	1081.4	1079.3	1080.8	1082.9
52.5°	657.6	661.9	712.7	816.2	902.7	1013.2	1118.5	1146.3	1151.1	1151.7	1153.3
55°	683.8	689.0	735.6	841.5	942.3	1071.7	1186.4	1228.5	1237.9	1240.3	1247.0
57.5°	692.9	698.4	740.7	845.2	963.9	1126.5	1281.1	1355.1	1363.0	1376.1	1397.4
60°	692.6	698.4	735.2	836.9	985.8	1194.4	1428.5	1552.4	1592.6	1606.0	1636.4
62.5°	664.3	671.0	708.5	812.0	1013.8	1281.1	1647.7	1838.3	1890.0	1914.4	1947.3
65°	602.2	607.1	642.1	748.6	1005.9	1366.7	1831.0	2068.7	2115.9	2151.5	2210.3
67°	547.1	550.1	577.5	673.7	928.6	1369.7	1888.8	2126.0	2167.1	2204.8	2265.4
67.5°	533.1	539.5	560.8	650.9	899.7	1352.4	1884.9	2117.1	2159.2	2198.4	2262.4
70°	433.8	443.0	453.6	514.2	707.2	1137.7	1745.1	1964.3	2001.2	2037.7	2126.9
72.5°	267.6	284.1	286.2	324.5	460.3	786.4	1412.0	1656.5	1684.2	1710.4	1801.7
75°	157.7	160.1	167.8	198.8	270.0	470.1	947.4	1230.6	1256.2	1268.9	1340.5
77.5°	88.0	90.4	96.8	123.6	207.6	316.6	551.7	723.1	738.6	754.7	743.2
80°	36.5	39.9	42.9	49.9	97.1	250.0	379.3	459.7	469.8	479.2	491.1
82.5°	17.7	18.9	23.1	26.5	35.3	102.6	297.4	398.5	410.4	424.1	451.8
85°	8.2	9.1	12.8	15.2	17.0	25.9	99.6	193.9	210.4	213.4	218.9
87.5°	0.6	0.6	1.5	2.1	3.0	3.3	10.4	14.6	16.4	14.9	18.9
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	309.3	309.0	308.4	308.4	308.1	308.1	308.1	307.5	307.5	307.5	307.2
5°	317.5	317.2	316.3	316.3	315.7	315.7	314.8	314.5	313.9	313.9	313.6
7.5°	328.2	327.9	326.7	326.7	325.8	325.5	324.8	323.9	323.9	323.3	322.7
10°	342.8	341.9	341.6	340.1	340.4	339.8	339.2	338.2	337.6	337.0	336.4
12.5°	359.3	359.3	357.7	356.8	357.4	356.8	355.6	355.3	354.4	354.4	353.5
15°	374.8	374.8	374.2	373.0	373.3	372.3	372.0	371.4	370.2	370.5	370.2
17.5°	388.2	388.2	387.3	386.7	386.7	385.7	386.0	385.4	384.8	384.5	383.6
20°	398.8	398.8	398.2	397.6	397.9	397.9	397.0	397.0	397.0	396.4	396.4
22.5°	409.2	409.5	409.5	409.5	409.8	410.1	409.8	410.4	410.1	410.7	410.7
25°	422.9	423.8	424.4	424.4	425.9	426.2	426.5	427.4	427.4	428.4	428.7
27.5°	443.3	443.9	446.3	446.9	447.2	449.7	450.0	451.2	452.4	452.7	453.0
30°	471.3	472.8	474.6	475.9	475.9	478.9	480.1	479.5	482.9	483.8	485.0
32.5°	508.7	510.0	511.8	513.0	514.2	515.7	516.0	517.6	520.3	522.7	521.2
35°	555.9	559.0	555.9	559.3	560.2	562.3	561.7	563.5	564.8	565.7	565.4
37.5°	624.4	622.9	622.3	621.1	618.9	626.3	622.6	622.3	620.5	625.6	622.3
40°	714.5	715.5	716.4	711.5	708.8	708.8	707.8	704.5	703.0	707.5	706.9
42.5°	808.6	809.5	805.3	802.2	795.2	794.3	790.0	789.1	787.6	790.0	787.6
45°	894.2	894.8	885.3	886.9	881.4	882.3	875.6	878.3	874.7	877.1	881.7
47.5°	989.8	991.0	982.8	986.1	980.6	977.3	977.0	978.8	974.8	977.3	978.5
50°	1076.5	1075.0	1070.8	1071.7	1069.2	1069.8	1066.2	1069.5	1065.0	1069.8	1069.2
52.5°	1153.6	1151.7	1150.8	1153.9	1151.7	1151.7	1149.6	1151.1	1151.7	1159.0	1160.6
55°	1247.0	1248.5	1250.1	1255.6	1258.0	1254.0	1258.0	1265.6	1265.9	1283.3	1292.7
57.5°	1397.1	1407.8	1413.3	1416.6	1430.9	1429.4	1438.5	1456.8	1458.6	1498.8	1522.3
60°	1658.9	1677.8	1695.8	1686.0	1715.0	1723.8	1729.3	1763.4	1774.0	1812.1	1832.5
62.5°	1989.6	1991.7	2019.7	2010.9	2027.3	2023.4	2030.1	2045.6	2059.6	2091.0	2110.1
65°	2220.4	2230.4	2241.4	2230.1	2229.8	2216.4	2207.9	2207.6	2216.1	2222.8	2244.1
67°	2283.1	2293.1	2295.9	2287.6	2275.8	2258.7	2242.9	2234.7	2229.2	2232.2	2245.6
67.5°	2282.5	2291.9	2295.2	2287.3	2270.9	2256.6	2239.8	2230.4	2223.1	2224.6	2235.9
70°	2152.8	2173.2	2184.1	2186.6	2184.4	2159.5	2145.2	2136.6	2130.5	2115.6	2114.7
72.5°	1824.0	1848.6	1857.1	1870.8	1876.9	1840.1	1824.6	1834.0	1812.7	1765.5	1767.6
75°	1339.3	1341.1	1312.5	1307.0	1286.6	1203.2	1178.2	1155.4	1118.9	1061.9	1008.3
77.5°	698.1	697.8	664.9	648.2	623.8	573.6	571.1	530.4	501.7	449.7	430.8
80°	495.9	503.9	514.8	520.3	511.8	492.3	465.5	436.6	403.4	370.8	331.9
82.5°	461.2	466.1	471.9	450.6	438.7	411.3	390.9	348.9	325.5	288.3	249.0
85°	224.4	239.3	227.7	214.3	209.8	164.1	158.6	132.4	120.3	98.9	92.2
87.5°	14.3	17.7	15.8	14.3	12.5	7.0	9.4	6.7	7.0	5.2	4.6
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	307.2	306.9	306.6	306.3	306.0	306.0	305.7	305.4	305.1	304.5	304.5
5°	313.0	313.0	312.7	312.1	312.1	311.5	310.5	310.2	310.2	309.6	309.0
7.5°	322.4	322.1	321.5	321.2	320.6	320.0	319.4	318.8	318.5	317.5	317.2
10°	336.7	336.1	334.6	334.0	333.7	333.1	332.5	331.9	330.9	330.3	330.0
12.5°	352.9	352.6	351.3	351.9	350.4	349.8	349.2	347.7	348.3	347.1	346.5
15°	369.0	369.3	368.7	368.7	367.5	366.6	365.9	364.7	364.4	363.8	363.2
17.5°	383.3	383.9	383.0	382.4	381.8	381.2	380.0	378.7	378.7	377.5	376.9
20°	396.4	397.0	396.7	396.1	395.2	394.9	394.3	393.3	393.3	392.7	391.8
22.5°	411.3	411.6	411.6	411.3	410.4	410.7	410.1	409.2	409.5	408.3	408.3
25°	429.3	429.9	430.5	430.8	430.2	430.5	429.9	429.3	429.0	429.3	429.0
27.5°	453.9	454.5	456.4	454.8	456.4	456.7	455.8	454.5	455.5	457.0	456.1
30°	486.5	485.9	488.3	488.6	488.3	488.6	488.0	487.1	487.7	490.5	488.9
32.5°	523.0	524.3	524.9	525.5	526.4	527.6	526.7	525.8	527.3	526.4	528.5
35°	567.2	569.9	570.8	569.9	570.5	572.7	572.4	572.7	575.7	572.7	576.6
37.5°	622.9	625.6	627.8	626.6	628.1	628.1	630.5	637.2	633.0	638.4	642.7
40°	703.9	708.2	708.5	708.2	709.7	711.5	713.9	721.2	716.4	722.2	726.1
42.5°	787.3	792.5	794.3	791.3	794.6	798.6	798.9	805.3	805.6	806.5	808.6
45°	881.4	885.9	889.6	888.1	888.4	893.6	892.3	898.4	893.9	893.9	895.1
47.5°	981.5	985.8	988.2	990.7	987.6	992.2	994.3	993.1	987.6	986.4	979.1
50°	1072.9	1076.5	1080.2	1086.9	1086.6	1088.7	1090.2	1084.8	1083.5	1076.8	1068.6
52.5°	1169.7	1179.1	1187.4	1201.4	1203.5	1210.8	1208.1	1198.9	1197.4	1186.4	1175.5
55°	1304.6	1331.7	1343.5	1365.2	1379.8	1379.5	1373.4	1371.9	1360.3	1338.4	1325.3
57.5°	1539.3	1581.6	1602.0	1630.0	1634.6	1631.9	1623.9	1609.9	1589.8	1553.0	1529.3
60°	1878.2	1904.3	1928.1	1934.8	1938.1	1933.0	1905.2	1874.2	1834.9	1784.1	1741.8
62.5°	2134.2	2161.0	2178.6	2175.9	2154.9	2128.4	2087.9	2035.9	1980.8	1923.8	1860.5
65°	2264.5	2275.8	2273.0	2251.7	2215.8	2169.5	2110.4	2046.2	1981.4	1914.1	1848.3
67°	2257.5	2257.8	2239.2	2197.8	2151.9	2093.7	2021.5	1951.5	1875.4	1804.8	1726.5
67.5°	2245.0	2243.8	2217.9	2172.6	2122.9	2063.0	1988.1	1915.6	1836.7	1765.5	1684.5
70°	2103.8	2086.7	2028.2	1955.8	1886.7	1805.7	1727.1	1644.0	1555.1	1493.9	1400.8
72.5°	1728.7	1671.1	1570.4	1494.5	1420.6	1314.6	1265.6	1162.4	1100.0	1061.0	990.7
75°	1001.0	952.9	875.0	804.1	768.1	705.4	675.6	599.8	583.9	583.3	559.0
77.5°	382.1	333.4	283.1	228.0	193.9	154.1	135.8	121.5	110.5	118.1	107.2
80°	286.5	235.6	184.2	134.0	95.6	70.6	60.6	56.0	53.3	51.1	49.6
82.5°	213.4	168.4	130.6	85.2	59.7	45.1	39.0	36.5	35.3	33.2	31.4
85°	72.2	57.8	45.7	31.7	25.0	20.4	18.9	18.3	17.4	15.8	14.9
87.5°	4.0	3.7	4.0	3.0	3.7	3.0	3.3	3.3	3.3	3.0	3.0
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: P151209

CATALOG NUMBER: TLM-E01-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	304.1	304.1	304.1	303.5	302.6	300.8	299.0	297.4	295.9	295.0	294.4
5°	308.7	308.1	307.8	307.5	305.4	301.7	298.4	295.3	292.3	289.8	288.9
7.5°	316.9	315.7	315.4	314.5	311.8	306.3	301.4	296.5	292.3	288.9	287.4
10°	329.4	329.4	327.6	326.4	323.3	316.0	309.0	302.6	296.8	293.2	292.3
12.5°	345.2	345.2	343.7	342.8	339.2	329.7	321.2	313.6	308.1	304.5	304.1
15°	361.7	361.4	360.2	358.9	355.0	344.9	336.4	329.7	325.2	320.9	319.7
17.5°	376.3	376.3	374.8	373.6	369.6	361.1	353.5	348.6	343.4	334.6	327.9
20°	390.9	391.2	390.0	388.8	385.4	378.1	374.8	369.9	358.3	339.2	323.3
22.5°	407.0	408.3	406.7	405.5	402.8	399.7	398.5	387.0	362.6	331.9	308.7
25°	427.8	429.9	428.1	427.4	425.9	426.8	423.2	396.4	356.5	316.0	287.1
27.5°	456.1	456.1	456.4	456.4	455.8	459.1	445.7	396.7	343.1	295.6	261.2
30°	489.3	491.1	490.5	490.5	492.9	495.0	458.2	390.0	326.1	270.4	229.6
32.5°	529.1	530.7	531.3	528.5	538.3	527.3	462.8	377.8	305.1	239.0	191.8
35°	577.2	579.4	580.9	581.2	587.6	555.3	460.3	359.9	274.9	199.7	150.4
37.5°	640.0	644.2	647.6	649.1	649.4	579.1	453.6	336.1	235.6	155.9	112.0
40°	723.4	727.9	727.0	730.1	712.7	593.1	438.4	301.7	186.9	114.5	86.5
42.5°	803.7	804.4	805.6	802.8	767.5	600.4	417.1	259.7	140.0	85.6	74.0
45°	893.6	888.4	882.6	878.3	818.1	603.1	387.9	208.5	98.9	71.9	68.5
47.5°	977.9	970.9	959.0	946.8	863.1	598.9	350.4	156.2	75.2	65.8	64.8
50°	1060.7	1047.6	1030.9	1016.9	906.3	592.5	309.0	112.6	65.8	62.7	61.8
52.5°	1163.3	1141.4	1119.5	1101.2	962.7	582.4	265.5	85.6	61.8	60.3	59.1
55°	1304.0	1273.5	1238.2	1212.6	1039.1	567.2	219.8	72.5	60.0	58.8	56.9
57.5°	1498.8	1453.1	1413.3	1371.5	1143.5	551.7	180.5	67.3	59.7	57.8	55.4
60°	1697.9	1643.1	1592.3	1532.6	1250.1	536.1	153.1	66.7	60.6	57.8	54.2
62.5°	1801.4	1744.8	1683.6	1623.0	1296.0	499.6	134.3	67.6	62.7	58.8	54.2
65°	1777.7	1708.6	1646.5	1584.7	1242.8	430.5	113.6	68.8	67.0	62.4	55.1
67°	1658.3	1586.2	1526.5	1467.4	1124.0	360.5	97.4	70.0	71.5	66.7	56.9
67.5°	1616.3	1544.2	1485.4	1427.9	1089.0	345.9	93.5	70.6	72.5	67.9	57.5
70°	1340.2	1287.2	1224.8	1180.4	881.7	256.0	76.7	71.9	77.9	74.9	60.3
72.5°	964.5	914.0	867.1	842.4	649.4	179.0	64.5	70.6	81.3	78.9	61.5
75°	512.7	509.6	492.6	504.8	401.9	116.9	56.9	66.1	77.6	72.2	57.2
77.5°	103.5	106.6	125.1	123.3	129.7	65.2	48.7	56.6	60.0	53.0	46.6
80°	48.1	47.2	46.3	46.9	46.0	41.7	39.6	44.4	41.7	34.1	31.1
82.5°	29.8	29.2	28.3	28.0	31.1	33.2	34.7	35.0	27.7	23.7	22.8
85°	14.3	14.3	14.0	14.6	18.3	27.1	29.2	25.9	18.6	17.0	16.1
87.5°	2.7	2.7	3.0	2.7	3.7	6.4	7.3	8.5	7.0	7.3	8.2
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: P151209

CATALOG NUMBER: TLM-E01-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	302.9	302.9	302.9
2.5°	293.8	293.2	293.2
5°	287.7	287.4	287.4
7.5°	286.2	286.5	286.2
10°	292.0	291.7	292.9
12.5°	304.8	305.7	305.4
15°	318.2	318.8	318.8
17.5°	322.1	320.0	319.7
20°	311.8	307.8	306.9
22.5°	292.3	285.0	285.3
25°	267.6	258.8	259.4
27.5°	239.0	229.6	229.3
30°	204.6	194.2	189.1
32.5°	163.2	150.7	150.7
35°	122.7	112.6	109.0
37.5°	93.2	87.4	85.6
40°	77.6	74.9	74.3
42.5°	70.6	69.7	69.4
45°	67.0	66.4	66.1
47.5°	63.6	63.3	63.0
50°	61.2	60.9	60.6
52.5°	59.1	58.5	58.1
55°	56.0	56.0	56.0
57.5°	54.2	54.2	53.9
60°	52.4	52.1	52.1
62.5°	50.8	50.2	50.5
65°	49.9	49.0	49.0
67°	49.3	47.5	47.5
67.5°	49.3	46.9	46.9
70°	48.4	44.4	43.8
72.5°	47.5	41.7	40.8
75°	45.1	39.6	38.7
77.5°	38.7	35.3	34.7
80°	29.8	25.9	26.5
82.5°	21.6	18.6	18.3
85°	15.5	13.4	13.4
87.5°	8.2	7.0	7.3
90°	0.0	0.0	0.0

(END OF REPORT)