

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: P152928

Luminaire Tested: **TLM-E02-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152928
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-E02-LED-E1-SLL-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

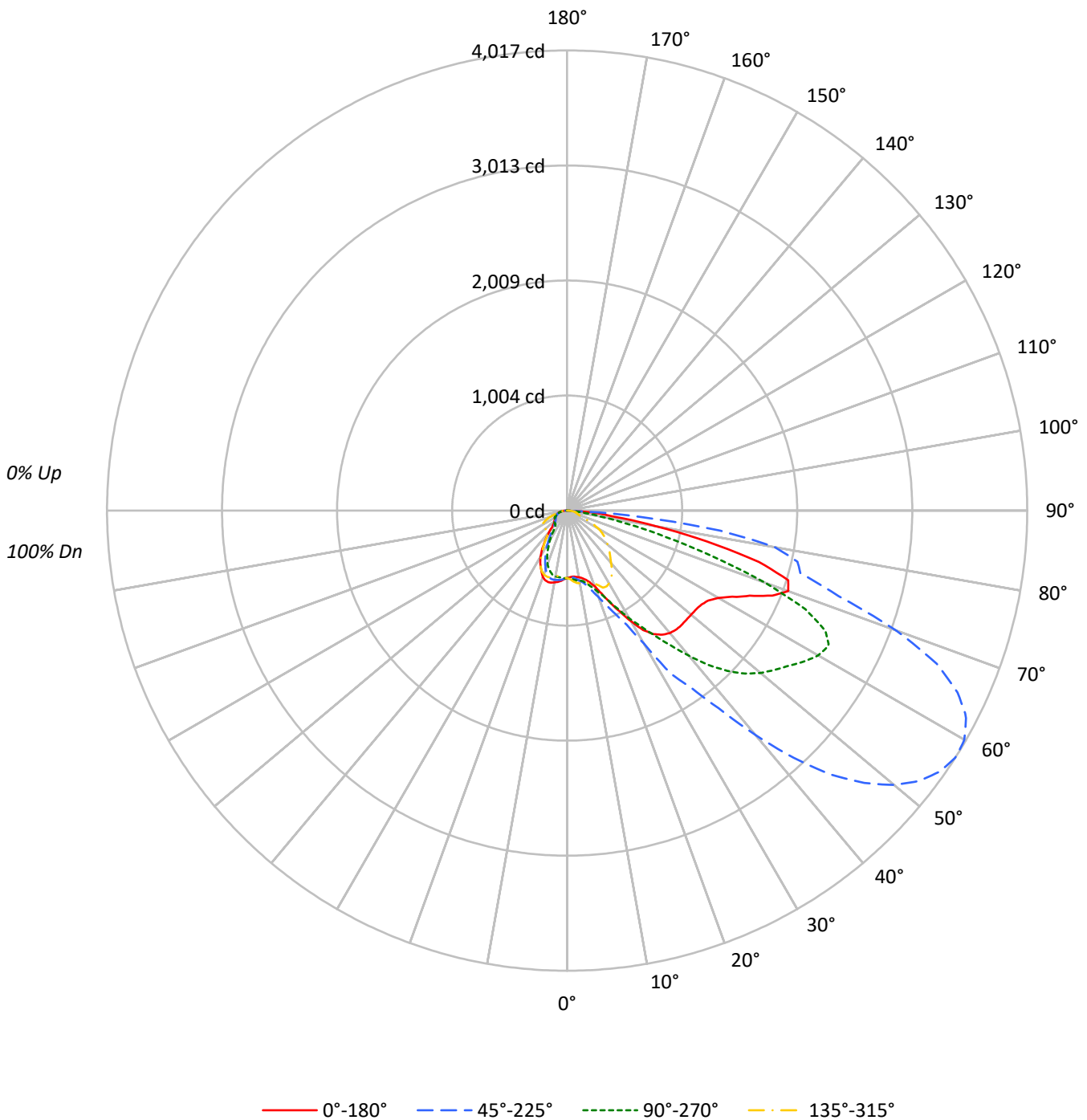
Lumens per Lamp: N/A
Luminaire Lumens: 4696.7 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 52.1
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: P152928
CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19251	19251	19251	19251
5°	18922	19750	20173	19253
10°	19568	20538	21078	19326
15°	21109	22193	21794	18809
20°	24395	25759	21483	17342
25°	31934	31549	19604	14641
30°	42086	40944	17484	11337
35°	52426	52987	14004	7753
40°	59416	70461	10253	6779
45°	65148	91256	7708	7113
50°	71722	111866	7368	7282
55°	81304	134230	7518	7455
60°	99432	165066	8187	8187
65°	135622	192072	8644	8513
70°	195858	174820	9127	9012
75°	218479	113171	10069	9502
80°	149332	54962	11515	10256
85°	96856	26759	13885	12650



TEST NUMBER: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.2
10°-20°	178.9	3.8
20°-30°	317.9	6.8
30°-40°	500.6	10.7
40°-50°	736.7	15.7
50°-60°	978.6	20.8
60°-70°	1077.9	23.0
70°-80°	676.3	14.4
80°-90°	172.3	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°	554.3	11.8
0°-40°	1054.9	22.5
0°-60°	2770.3	59.0
0°-90°	4696.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4696.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	590	590	590	590	590	
5°	578	603	616	588	578	56
15°	625	657	645	557	625	181
25°	887	877	545	407	887	419
35°	1317	1331	352	195	1317	816
45°	1412	1978	167	154	1412	1092
55°	1430	2360	132	131	1430	1297
65°	1757	2489	112	110	1757	1769
75°	1734	898	80	75	1734	1695
85°	259	72	37	34	259	299
90°	0	0	0	0	0	



TEST NUMBER: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	582.4	583.5	583.5	582.9	582.9	584.0	583.5	582.9	581.2	583.5	583.5
5°	577.9	579.0	579.0	580.1	581.2	582.4	582.4	583.5	582.9	585.2	586.9
7.5°	583.5	584.6	586.9	589.7	591.4	595.3	595.3	598.1	599.2	600.9	600.4
10°	590.8	593.6	598.7	603.2	606.5	611.0	614.4	618.4	618.4	620.1	621.2
12.5°	603.7	606.5	612.2	617.8	622.9	628.5	633.6	637.5	641.4	642.6	644.8
15°	625.1	628.5	636.9	644.8	651.0	658.3	665.1	672.9	680.3	681.9	683.1
17.5°	657.2	663.9	670.1	684.2	693.2	702.8	713.5	724.7	727.0	738.8	741.6
20°	702.8	711.2	716.8	734.3	749.5	761.8	777.6	790.5	795.6	806.9	818.1
22.5°	781.5	779.8	788.3	805.7	817.0	841.7	855.2	868.7	875.5	892.4	901.4
25°	887.3	896.3	914.9	916.6	927.3	956.0	973.4	986.9	987.5	992.5	1002.1
27.5°	991.4	1028.5	1057.8	1073.6	1102.3	1128.7	1127.6	1146.7	1116.9	1123.1	1132.1
30°	1117.4	1179.3	1234.5	1271.6	1300.9	1331.8	1347.0	1357.7	1344.8	1339.1	1328.4
32.5°	1235.6	1322.3	1407.2	1473.0	1527.6	1578.8	1612.6	1627.8	1645.8	1691.4	1707.7
35°	1316.6	1439.3	1545.1	1640.2	1731.3	1812.9	1872.0	1905.7	1892.8	1886.6	1883.2
37.5°	1365.0	1514.7	1646.9	1781.4	1886.0	2008.1	2099.8	2188.7	2209.0	2173.6	2156.1
40°	1395.4	1572.6	1742.6	1901.2	2036.8	2194.4	2308.0	2441.4	2542.7	2556.2	2514.5
42.5°	1410.0	1611.5	1809.5	1989.0	2172.4	2365.4	2509.5	2670.9	2822.3	2926.4	2900.5
45°	1412.3	1636.8	1858.5	2068.3	2286.7	2515.7	2701.3	2880.3	3082.8	3261.2	3266.2
47.5°	1412.3	1655.9	1892.2	2125.7	2389.1	2646.2	2848.8	3060.3	3308.4	3519.4	3584.1
50°	1413.4	1668.9	1923.7	2170.7	2467.3	2756.5	2985.5	3235.3	3496.4	3725.9	3850.8
52.5°	1418.5	1678.4	1948.5	2202.8	2517.9	2834.1	3091.8	3379.9	3639.9	3875.6	4037.1
55°	1429.7	1691.9	1966.5	2222.5	2551.7	2884.8	3168.9	3478.9	3732.7	3971.8	4197.4
57.5°	1461.2	1715.6	1988.4	2240.0	2570.2	2918.0	3222.9	3521.7	3768.1	4017.4	4282.4
60°	1524.2	1765.6	2026.1	2274.8	2601.2	2979.3	3248.8	3493.0	3742.3	4003.9	4301.5
62.5°	1625.0	1843.8	2078.5	2333.9	2689.5	3074.4	3229.1	3407.5	3640.4	3925.7	4233.5
63°	1659.8	1860.7	2090.3	2346.9	2713.7	3091.8	3220.7	3382.2	3619.6	3900.9	4209.3
65°	1757.2	1935.6	2146.6	2412.1	2813.3	3109.3	3154.8	3250.5	3475.6	3759.7	4066.3
67.5°	1938.9	2117.3	2267.5	2522.4	2897.1	3040.6	2950.6	2962.4	3197.6	3491.9	3767.6
70°	2053.7	2266.4	2344.6	2536.5	2881.9	2938.8	2686.1	2529.7	2718.2	3053.6	3294.9
72.5°	2023.9	2268.1	2259.6	2349.1	2578.1	2631.0	2369.4	2122.9	2234.9	2485.3	2641.7
75°	1733.6	2025.6	1963.7	1945.7	2026.1	2061.0	1864.7	1827.0	1968.2	2107.2	2109.4
77.5°	1248.0	1569.3	1496.7	1392.6	1387.0	1467.4	1493.9	1740.9	1949.6	2059.3	2010.9
80°	795.0	1143.3	1067.9	886.2	883.4	988.0	1220.4	1556.3	1777.4	1838.8	1712.7
82.5°	415.2	748.3	777.0	665.1	761.3	934.6	1161.3	1254.2	1338.0	1346.4	1197.9
85°	258.8	460.3	541.3	558.7	687.6	828.8	827.1	794.5	757.3	648.2	586.3
87.5°	29.3	58.0	87.8	83.3	112.0	157.0	195.8	114.8	80.5	29.3	40.5
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: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	584.6	585.2	585.7	585.7	588.5	588.0	588.5	589.7	591.4	592.5	593.6
5°	589.1	589.1	591.4	593.0	596.4	598.7	599.8	603.2	607.1	606.0	609.4
7.5°	603.7	603.2	605.4	606.5	609.4	613.3	612.7	615.6	618.9	620.1	622.9
10°	623.4	621.7	621.7	620.6	621.2	620.1	620.1	620.1	622.3	621.7	624.0
12.5°	643.7	643.1	642.0	638.6	638.6	634.1	631.9	629.1	628.5	624.6	625.1
15°	685.3	685.3	683.1	676.3	670.7	666.8	661.1	657.2	651.6	644.2	640.3
17.5°	746.1	738.2	735.4	734.3	725.3	721.9	709.5	696.6	690.4	680.3	674.6
20°	820.4	818.7	807.4	801.8	790.5	774.8	759.0	742.1	732.0	719.6	712.9
22.5°	904.2	891.8	886.2	877.8	860.3	842.3	818.7	796.2	780.4	772.0	766.9
25°	1002.1	989.7	984.1	972.8	951.5	932.3	903.1	876.6	862.6	848.5	840.6
27.5°	1132.1	1120.3	1113.5	1084.2	1076.9	1045.4	1009.4	973.4	954.8	934.0	920.5
30°	1326.2	1326.8	1291.9	1256.4	1219.8	1165.3	1127.6	1087.1	1056.7	1026.9	997.0
32.5°	1654.2	1570.4	1505.7	1429.7	1350.4	1292.4	1245.7	1197.3	1155.1	1111.8	1062.3
35°	1854.5	1814.0	1730.2	1591.2	1511.3	1441.0	1389.2	1330.7	1278.9	1202.4	1127.0
37.5°	2080.7	1986.8	1884.9	1807.8	1717.2	1635.7	1549.0	1482.6	1393.1	1290.2	1183.3
40°	2411.0	2276.5	2153.9	2050.3	1933.3	1847.8	1751.0	1654.8	1536.1	1387.0	1240.1
42.5°	2755.9	2616.9	2454.9	2320.4	2182.6	2082.4	1962.6	1827.5	1653.1	1468.5	1289.1
45°	3117.7	2932.0	2737.9	2573.6	2430.1	2305.8	2157.2	1978.3	1765.6	1541.7	1334.6
47.5°	3474.4	3261.2	3029.9	2853.3	2666.4	2514.5	2332.2	2106.0	1853.4	1610.9	1380.2
50°	3789.0	3583.6	3305.1	3080.6	2891.5	2704.1	2476.8	2204.5	1922.6	1670.5	1421.3
52.5°	4060.2	3883.5	3590.3	3306.8	3089.0	2878.6	2593.3	2283.8	1992.4	1725.7	1455.0
55°	4259.3	4141.7	3871.7	3520.0	3262.9	3011.9	2691.8	2360.4	2058.2	1769.6	1477.0
57.5°	4409.6	4344.3	4112.5	3720.9	3422.7	3141.3	2793.6	2452.1	2123.5	1807.3	1487.1
60°	4491.7	4509.7	4294.8	3896.4	3563.9	3249.4	2895.5	2530.3	2171.9	1829.2	1481.5
62.5°	4483.8	4594.1	4431.5	4004.5	3646.0	3313.5	2964.1	2566.9	2165.1	1794.3	1430.3
63°	4468.7	4596.9	4446.7	4011.8	3651.1	3315.8	2965.8	2561.8	2151.1	1777.4	1410.0
65°	4337.6	4532.2	4433.8	3978.6	3606.1	3273.6	2930.3	2488.6	2052.0	1686.9	1305.9
67.5°	3986.5	4230.1	4201.9	3743.9	3392.8	3099.1	2749.2	2252.9	1807.3	1464.0	1106.8
70°	3406.3	3635.4	3640.4	3256.1	2963.0	2674.9	2384.0	1833.1	1432.5	1134.9	825.4
72.5°	2610.7	2758.2	2809.4	2556.2	2359.8	2157.2	1896.2	1330.7	1021.2	772.0	537.3
75°	2021.6	1981.1	1980.6	1873.7	1793.8	1694.7	1407.8	898.0	670.7	501.9	328.6
77.5°	1817.4	1637.3	1462.9	1334.6	1270.5	1237.3	923.3	541.3	395.6	288.6	189.1
80°	1498.9	1233.4	996.5	858.1	802.9	841.2	514.8	292.6	216.6	164.3	122.7
82.5°	1033.6	858.1	652.1	540.2	463.6	485.0	263.3	149.7	100.2	91.7	76.0
85°	538.5	472.1	398.4	342.1	302.1	265.6	136.7	71.5	41.6	36.6	33.2
87.5°	0.0	0.6	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: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	595.3	594.7	595.9	596.4	598.1	599.2	599.8	598.7	600.4	602.0	600.9
5°	611.0	615.0	615.6	617.2	617.2	620.6	620.6	620.6	620.1	620.6	619.5
7.5°	624.6	629.6	630.2	632.4	633.0	636.9	635.2	636.4	636.4	633.6	632.4
10°	626.2	631.3	634.1	636.9	640.9	645.9	645.9	648.7	648.7	646.5	645.9
12.5°	626.8	630.7	633.6	637.5	643.1	650.4	654.4	658.3	660.0	659.4	657.8
15°	638.6	638.6	639.2	642.6	646.5	655.5	661.1	665.6	668.4	667.3	664.5
17.5°	669.6	665.1	661.7	656.1	657.2	661.7	665.1	669.0	669.6	668.4	663.9
20°	705.6	699.9	691.5	682.5	678.0	674.6	672.4	672.4	670.7	665.1	657.8
22.5°	756.8	749.5	737.6	724.1	715.1	704.5	691.5	679.1	665.6	652.1	636.4
25°	827.7	817.5	805.2	784.3	765.2	742.7	716.3	688.7	656.6	628.5	605.4
27.5°	899.1	876.6	844.6	815.9	780.4	746.7	709.0	675.2	634.1	600.4	575.0
30°	958.2	915.4	869.3	823.7	777.0	731.5	686.4	645.9	600.9	566.6	541.8
32.5°	1003.8	944.7	880.6	820.9	763.5	707.8	656.1	611.0	565.5	530.0	503.6
35°	1046.0	963.8	882.3	808.5	737.6	679.7	621.2	572.2	523.8	486.7	458.0
37.5°	1077.5	972.8	872.1	785.5	703.9	639.2	579.5	529.5	479.9	439.4	406.8
40°	1097.8	967.2	850.2	752.3	663.9	595.9	535.1	483.3	435.5	391.0	351.7
42.5°	1114.1	959.9	828.2	721.9	632.4	558.2	495.7	440.0	391.6	343.2	299.9
45°	1138.3	965.5	818.7	700.5	604.3	526.1	457.4	399.5	348.8	301.6	259.9
47.5°	1161.9	968.3	804.6	674.1	568.8	492.9	423.1	366.9	315.1	271.8	233.5
50°	1183.3	966.7	782.7	640.3	534.5	459.7	392.2	335.9	284.7	244.8	208.7
52.5°	1193.4	957.1	755.7	607.7	507.0	430.4	361.8	307.2	256.6	218.9	185.7
55°	1192.3	932.3	720.2	576.7	476.6	399.5	332.0	278.0	232.4	197.5	168.8
57.5°	1175.4	894.1	682.5	542.4	436.6	361.2	297.1	244.8	206.5	177.2	153.0
60°	1140.0	845.1	633.0	492.3	386.5	314.0	253.8	208.7	177.8	155.3	139.5
62.5°	1073.6	774.8	571.1	422.6	319.0	252.6	200.3	171.0	148.0	134.5	127.2
63°	1053.9	755.7	544.7	405.7	303.3	238.6	189.1	158.7	141.8	130.0	123.2
65°	956.0	661.7	455.8	327.5	235.8	184.0	151.9	128.8	118.7	113.7	113.1
67.5°	774.2	520.5	322.4	224.5	160.4	132.8	116.5	106.9	102.4	101.3	102.4
70°	543.5	328.6	204.8	149.1	118.7	106.9	99.6	95.7	92.8	93.4	94.5
72.5°	346.6	196.9	140.7	113.1	100.2	94.0	90.6	89.5	88.9	88.3	88.3
75°	197.5	131.1	108.0	97.9	91.2	86.1	83.3	82.1	82.7	83.3	82.1
77.5°	130.5	108.0	96.2	89.5	83.3	77.6	76.0	75.4	76.5	77.6	77.6
80°	103.0	96.2	89.5	82.7	72.6	68.6	69.8	70.3	69.8	70.3	68.6
82.5°	72.6	71.5	73.1	70.3	60.2	56.8	55.7	56.3	55.1	55.1	54.0
85°	33.8	33.8	35.4	35.4	34.3	34.9	37.7	41.1	42.8	41.1	38.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	10.1	14.6	15.8	19.7	19.1
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: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	599.2	600.4	599.8	599.2	600.4	599.2	599.8	599.2	599.2	598.7	598.7
5°	618.4	620.1	616.7	616.1	615.0	612.2	612.2	611.0	611.0	608.8	607.1
7.5°	630.7	631.3	628.5	627.9	625.1	622.3	620.1	617.8	617.2	615.6	612.2
10°	642.6	641.4	639.2	636.4	633.6	629.6	626.8	624.0	623.4	620.6	616.7
12.5°	652.7	652.1	647.6	644.8	640.3	636.4	633.0	629.6	627.9	624.6	618.9
15°	659.4	656.1	650.4	645.4	640.3	635.8	631.9	627.9	626.2	622.3	616.7
17.5°	656.6	650.4	643.1	636.9	630.2	624.6	621.2	617.2	614.4	612.2	604.3
20°	646.5	637.5	626.2	618.9	609.9	602.6	600.4	596.4	594.2	585.7	575.6
22.5°	620.1	607.1	593.0	582.4	572.2	564.9	559.3	555.3	549.7	544.7	528.9
25°	586.9	572.2	557.6	544.7	531.2	519.9	509.8	500.2	497.4	486.7	471.5
27.5°	554.8	538.5	523.8	508.6	491.2	477.1	459.7	446.2	437.2	425.9	411.9
30°	520.5	504.1	484.5	464.2	443.9	428.7	409.1	392.7	381.5	369.7	356.7
32.5°	477.1	457.4	433.8	411.3	392.7	374.7	355.0	339.3	328.0	317.3	305.0
35°	427.6	401.7	376.4	351.7	332.0	316.8	299.3	287.5	279.6	270.1	257.1
37.5°	370.8	341.5	314.5	295.4	278.0	263.3	250.9	243.6	235.2	230.1	222.3
40°	313.4	284.7	258.3	240.8	226.2	217.7	211.0	209.3	203.7	196.9	191.9
42.5°	262.8	235.2	209.3	195.2	185.7	183.4	180.1	180.1	177.2	172.2	168.8
45°	228.4	199.7	177.2	167.1	162.0	161.5	159.8	159.8	159.2	157.0	153.0
47.5°	203.7	177.8	160.4	154.2	153.0	151.9	150.2	149.7	149.1	147.4	145.2
50°	181.2	159.2	148.0	145.2	145.7	144.0	142.4	140.7	140.1	138.4	136.2
52.5°	160.4	144.6	137.3	135.6	135.6	135.6	134.5	134.5	133.4	132.8	130.5
55°	148.5	136.7	132.8	132.2	131.7	131.1	130.0	130.0	128.8	128.3	125.5
57.5°	138.4	131.1	128.8	127.7	127.2	126.0	125.5	125.5	125.5	125.5	122.1
60°	130.5	127.2	126.6	125.5	124.9	122.7	121.5	121.0	121.5	122.1	118.7
62.5°	122.1	121.5	121.0	119.8	119.3	117.0	115.3	114.2	115.3	116.5	115.9
63°	119.8	119.3	119.3	118.7	118.2	115.3	113.7	112.5	113.7	114.8	114.8
65°	112.0	112.5	112.5	112.0	111.4	109.7	107.5	106.3	106.9	108.6	109.2
67.5°	103.5	104.1	103.5	104.1	103.5	102.4	100.7	99.6	99.0	99.6	100.2
70°	95.7	96.8	96.2	95.7	95.1	95.1	94.0	92.3	91.7	91.2	91.2
72.5°	88.9	88.9	87.8	87.8	87.2	87.2	86.1	84.4	83.8	83.8	82.7
75°	81.6	81.6	79.9	79.9	78.8	79.3	78.2	76.5	76.0	76.0	75.4
77.5°	77.1	75.4	72.6	72.0	71.5	71.5	70.9	69.2	68.6	68.6	68.1
80°	68.1	64.7	61.9	61.3	61.9	63.0	63.0	61.9	61.9	61.9	61.9
82.5°	52.9	51.8	50.1	49.0	49.0	50.6	52.9	54.0	55.1	56.3	56.3
85°	38.8	39.4	38.8	37.1	36.6	38.3	40.5	42.8	43.3	45.6	45.0
87.5°	20.8	21.4	19.7	19.1	20.8	21.9	24.2	24.8	25.9	26.4	27.0
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: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	598.1	597.5	598.1	597.0	597.0	595.9	594.7	594.2	593.0	592.5	591.4
5°	608.2	606.5	604.9	604.3	602.0	599.8	598.1	595.3	593.0	589.1	588.0
7.5°	615.0	611.0	608.8	608.2	604.9	603.2	599.2	595.9	592.5	587.4	585.7
10°	617.8	613.9	609.9	608.2	604.3	601.5	597.5	592.5	589.7	584.6	583.5
12.5°	621.2	613.9	607.7	603.2	597.5	591.4	587.4	584.6	580.7	577.9	576.7
15°	615.0	605.4	595.9	587.4	578.4	571.7	567.7	563.2	558.7	557.0	557.0
17.5°	598.1	585.7	569.4	558.7	549.2	541.8	536.8	532.3	531.7	529.5	530.6
20°	563.2	546.9	531.2	523.3	517.6	513.1	508.1	505.8	504.1	500.8	499.6
22.5°	514.8	501.3	490.1	484.5	479.9	474.3	469.8	463.1	461.4	458.0	456.3
25°	461.4	450.7	441.1	437.2	434.4	426.5	423.7	414.7	408.5	404.6	406.8
27.5°	407.9	400.1	391.0	386.0	384.3	377.0	374.2	364.0	359.0	359.0	353.4
30°	352.8	345.5	339.8	334.2	333.1	324.1	316.8	312.8	307.2	305.0	301.0
32.5°	301.0	293.7	289.2	286.4	281.9	274.6	267.3	260.5	251.5	248.1	246.4
35°	253.2	247.6	241.9	239.7	233.5	225.6	216.6	211.0	200.3	196.4	194.7
37.5°	216.6	209.9	205.9	199.7	193.6	185.1	178.4	173.3	169.4	167.7	167.7
40°	187.4	182.3	177.8	172.7	167.7	163.2	159.8	158.7	158.1	158.1	159.2
42.5°	165.4	160.9	158.7	155.9	154.2	154.2	153.6	154.2	154.7	155.3	157.0
45°	150.8	148.0	146.9	146.3	147.4	148.5	149.1	150.2	152.5	153.6	154.2
47.5°	142.9	140.7	140.1	140.7	142.4	144.6	146.9	148.5	150.2	150.8	151.4
50°	135.0	132.2	131.1	132.2	134.5	137.9	139.5	142.4	143.5	144.6	143.5
52.5°	128.3	126.0	125.5	125.5	127.7	130.0	132.2	134.5	135.0	135.0	134.5
55°	122.7	121.0	119.3	120.4	122.1	124.3	127.7	129.4	130.5	131.1	131.1
57.5°	118.2	116.5	114.8	115.9	117.6	119.8	123.2	124.9	126.0	127.7	128.3
60°	114.8	112.5	110.8	112.5	114.2	117.6	120.4	122.1	124.9	125.5	125.5
62.5°	111.4	109.2	106.3	108.0	108.0	109.7	112.5	114.8	117.6	118.7	118.7
63°	110.8	108.6	105.8	106.9	106.9	108.0	110.3	112.5	115.9	117.0	116.5
65°	106.3	105.8	103.0	103.0	101.8	103.0	104.7	106.9	108.6	110.3	110.3
67.5°	99.0	98.5	97.9	97.9	97.9	99.0	100.2	101.8	103.5	104.7	104.1
70°	90.6	90.6	90.6	91.2	91.2	92.3	92.8	92.3	94.0	95.1	94.5
72.5°	83.3	82.7	82.1	83.3	82.7	82.7	83.8	83.3	85.0	85.0	85.5
75°	75.4	74.8	74.8	75.4	74.3	73.1	73.7	73.7	74.3	74.3	75.4
77.5°	68.6	68.6	68.6	68.1	67.0	66.4	65.8	65.8	65.8	65.8	66.4
80°	62.5	62.5	62.5	61.9	60.8	59.6	58.5	58.0	57.4	54.6	54.6
82.5°	56.3	56.3	56.3	56.3	55.7	54.6	52.9	48.4	46.1	43.9	44.5
85°	44.5	45.6	46.7	48.4	47.8	47.8	44.5	38.8	35.4	33.2	33.8
87.5°	28.7	25.3	25.3	24.8	23.6	22.5	22.5	19.1	15.8	14.1	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



TEST NUMBER: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	591.4	590.2	589.1	589.1	587.4	587.4	586.3	588.5	586.3	584.6	584.6
5°	586.9	585.7	582.4	581.8	579.5	579.5	579.5	578.4	578.4	577.3	576.7
7.5°	584.0	581.2	578.4	576.7	576.7	575.6	577.9	576.7	577.3	577.3	577.9
10°	581.8	579.5	578.4	577.9	577.9	579.5	581.2	581.8	581.2	581.8	581.8
12.5°	576.2	577.3	577.9	580.1	582.9	586.3	590.2	590.8	591.9	591.9	593.0
15°	558.2	561.0	564.3	570.0	577.3	584.6	591.9	598.1	603.7	606.5	608.8
17.5°	532.8	535.7	541.8	548.0	557.6	568.3	580.7	591.4	603.2	613.9	624.6
20°	498.5	503.0	504.7	516.0	527.2	541.8	556.5	573.4	593.6	613.9	634.7
22.5°	454.1	459.1	467.0	476.0	487.8	505.8	523.3	549.7	576.7	605.4	638.1
25°	404.6	410.2	416.9	426.5	438.3	457.4	482.8	510.9	544.1	581.8	622.3
27.5°	353.4	359.0	364.6	371.4	384.9	405.1	434.9	464.2	500.8	541.8	589.1
30°	302.1	302.7	306.1	314.5	328.6	355.0	377.0	413.6	451.8	495.1	549.7
32.5°	245.9	245.3	249.3	256.6	270.1	295.4	322.4	357.9	395.6	450.1	506.4
35°	195.8	195.8	203.1	210.4	225.6	243.6	267.3	298.8	343.2	393.9	450.1
37.5°	169.4	173.3	177.8	185.1	196.9	211.0	231.8	259.4	294.3	342.7	394.4
40°	160.9	163.2	167.1	173.9	184.0	196.9	212.1	232.9	259.9	298.8	346.0
42.5°	157.5	158.1	160.4	165.4	174.4	187.4	203.1	221.7	241.9	269.5	310.6
45°	154.2	153.6	154.7	158.7	166.0	180.6	198.6	218.9	239.1	262.2	296.0
47.5°	151.4	151.4	151.4	153.0	159.8	174.4	195.2	218.9	243.1	269.0	302.1
50°	143.5	142.9	142.9	144.0	149.1	164.9	189.6	218.3	249.8	283.6	321.3
52.5°	134.5	134.5	135.0	135.6	140.1	155.9	183.4	218.3	257.7	302.7	350.0
55°	131.7	132.2	132.8	132.2	135.6	149.1	176.7	214.9	261.1	317.9	380.9
57.5°	129.4	130.5	130.5	130.0	132.2	143.5	169.9	208.2	258.3	323.5	402.9
60°	126.0	126.0	126.0	124.3	125.5	135.6	159.8	197.5	249.3	318.5	406.2
62.5°	118.7	118.7	117.6	117.0	116.5	124.3	146.3	181.7	232.9	305.0	397.8
63°	117.0	116.5	116.5	114.8	114.8	122.1	143.5	179.5	228.4	301.6	394.4
65°	110.8	110.8	110.8	109.7	109.2	114.8	132.2	163.7	211.0	285.8	377.5
67.5°	104.1	104.7	103.5	103.0	102.4	105.8	119.3	144.0	184.0	252.6	346.0
70°	94.5	95.1	95.1	94.5	94.0	96.2	104.7	123.8	152.5	210.4	294.8
72.5°	86.1	87.2	87.2	88.3	88.3	90.0	93.4	103.0	122.1	164.3	231.8
75°	77.1	77.6	78.8	79.9	78.8	78.2	78.8	86.1	95.7	121.5	165.4
77.5°	69.2	70.9	70.9	70.3	68.6	67.5	67.5	70.9	78.8	92.3	118.2
80°	57.4	60.2	60.8	59.1	57.4	57.4	58.5	60.8	65.8	76.0	89.5
82.5°	46.1	49.0	49.5	50.1	49.5	51.2	51.2	51.8	54.6	62.5	73.1
85°	35.4	37.7	39.4	39.9	40.5	41.1	40.5	37.7	39.4	44.5	49.5
87.5°	15.8	16.3	15.2	15.8	15.2	15.8	16.3	13.5	12.9	17.4	18.0
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: P152928

CATALOG NUMBER: TLM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	584.0	584.0	584.6	583.5	583.5	584.0	582.4
5°	575.0	577.3	577.3	577.3	576.2	577.3	577.9
7.5°	577.3	579.0	580.1	580.1	579.5	581.8	583.5
10°	580.1	582.9	584.0	584.0	584.0	586.9	590.8
12.5°	590.8	593.0	594.7	594.7	595.9	599.2	603.7
15°	610.5	613.3	613.3	612.7	616.1	620.1	625.1
17.5°	632.4	640.3	644.2	643.7	646.5	651.6	657.2
20°	653.2	675.2	684.8	691.5	694.3	701.1	702.8
22.5°	670.7	707.3	733.7	756.2	766.9	773.7	781.5
25°	664.5	714.0	761.3	807.4	840.1	873.2	887.3
27.5°	639.2	701.1	763.0	830.5	889.6	948.6	991.4
30°	608.2	682.5	765.8	861.4	954.8	1045.4	1117.4
32.5°	572.8	665.1	772.0	890.1	1012.8	1131.5	1235.6
35°	528.3	631.9	756.8	892.9	1037.5	1181.6	1316.6
37.5°	472.1	586.9	721.3	872.7	1038.7	1203.5	1365.0
40°	415.8	530.0	676.3	843.4	1024.0	1208.6	1395.4
42.5°	376.4	479.4	630.7	806.3	1000.4	1200.7	1410.0
45°	349.4	442.8	590.2	772.5	975.1	1186.7	1412.3
47.5°	347.2	427.1	563.8	747.8	954.8	1174.3	1412.3
50°	366.3	435.5	554.8	735.4	946.4	1170.3	1413.4
52.5°	402.3	469.3	571.1	745.0	953.1	1175.4	1418.5
55°	445.6	520.5	615.0	778.2	981.8	1192.3	1429.7
57.5°	485.0	579.5	689.8	842.3	1034.2	1235.0	1461.2
60°	508.1	630.2	769.2	932.3	1123.6	1320.0	1524.2
62.5°	510.9	658.3	839.5	1030.2	1232.2	1417.3	1625.0
63°	508.6	660.6	848.5	1048.8	1255.3	1441.5	1659.8
65°	496.3	661.1	873.8	1114.1	1335.2	1543.4	1757.2
67.5°	464.8	643.1	882.8	1165.3	1435.9	1677.3	1938.9
70°	410.2	591.9	856.4	1166.4	1474.7	1752.1	2053.7
72.5°	329.7	494.6	742.1	1061.2	1372.3	1678.4	2023.9
75°	241.4	363.5	561.0	822.0	1119.7	1397.1	1733.6
77.5°	160.4	235.2	378.1	585.7	802.9	1005.5	1248.0
80°	110.3	145.7	221.1	352.2	491.2	589.7	795.0
82.5°	81.0	96.2	122.7	180.1	236.3	290.9	415.2
85°	50.6	55.1	61.3	88.9	127.2	171.6	258.8
87.5°	13.5	14.1	12.9	17.4	27.6	26.4	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)