

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: P152931

Luminaire Tested: **TLM-E02-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152931
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-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

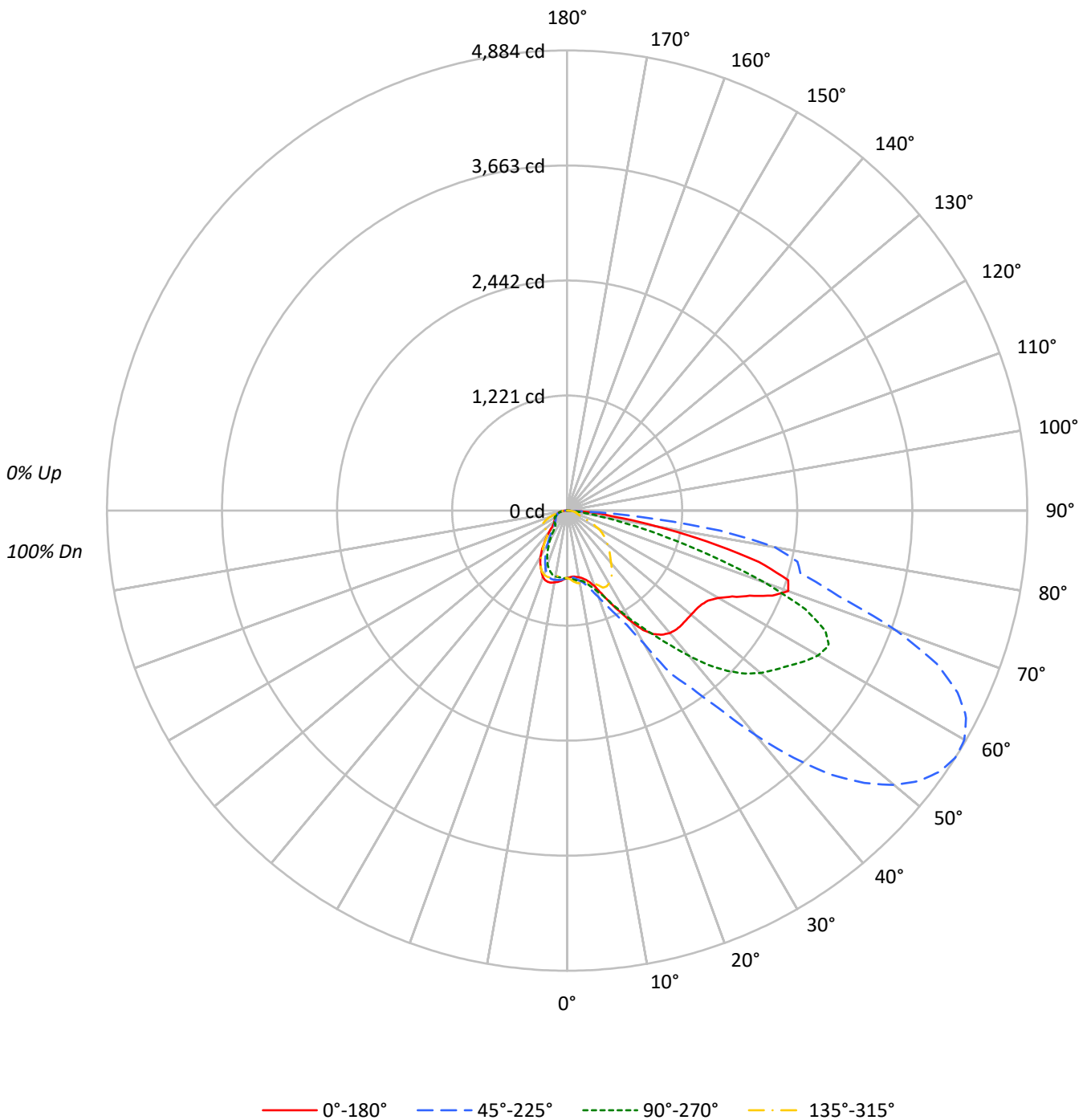
Lumens per Lamp: N/A
Luminaire Lumens: 5710.2 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

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



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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°	23407	23407	23407	23407
5°	23002	24010	24527	23408
10°	23791	24967	25626	23496
15°	25664	26981	26495	22868
20°	29657	31320	26120	21087
25°	38826	38358	23833	17801
30°	51170	49777	21258	13785
35°	63738	64419	17023	9425
40°	72236	85666	12467	8243
45°	79203	110949	9373	8645
50°	87199	136005	8956	8850
55°	98847	163193	9144	9065
60°	120889	200685	9948	9948
65°	164889	233518	10504	10350
70°	238125	212548	11091	10958
75°	265612	137595	12237	11557
80°	181565	66814	14013	12473
85°	117776	32522	16879	15344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.2
10°-20°	217.6	3.8
20°-30°	386.5	6.8
30°-40°	608.6	10.7
40°-50°	895.7	15.7
50°-60°	1189.8	20.8
60°-70°	1310.5	23.0
70°-80°	822.2	14.4
80°-90°	209.4	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°	673.9	11.8
0°-40°	1282.5	22.5
0°-60°	3368.0	59.0
0°-90°	5710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5710.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	718	718	718	718	718	
5°	702	733	749	715	702	68
15°	760	799	785	677	760	220
25°	1079	1066	662	495	1079	509
35°	1601	1618	428	237	1601	992
45°	1717	2405	203	187	1717	1328
55°	1738	2870	161	159	1738	1577
65°	2136	3026	136	134	2136	2151
75°	2108	1092	97	92	2108	2061
85°	315	87	45	41	315	364
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°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	708.0	709.4	709.4	708.7	708.7	710.1	709.4	708.7	706.6	709.4	709.4
5°	702.5	703.9	703.9	705.3	706.6	708.0	708.0	709.4	708.7	711.4	713.5
7.5°	709.4	710.7	713.5	716.9	719.0	723.7	723.7	727.2	728.5	730.6	729.9
10°	718.3	721.7	727.9	733.3	737.4	742.9	747.0	751.8	751.8	753.8	755.2
12.5°	734.0	737.4	744.3	751.1	757.3	764.1	770.3	775.1	779.8	781.2	783.9
15°	760.0	764.1	774.4	783.9	791.5	800.4	808.6	818.1	827.0	829.1	830.5
17.5°	799.0	807.2	814.7	831.8	842.8	854.4	867.4	881.1	883.8	898.2	901.6
20°	854.4	864.7	871.5	892.7	911.2	926.2	945.4	961.1	967.3	981.0	994.6
22.5°	950.2	948.1	958.4	979.6	993.3	1023.4	1039.8	1056.2	1064.4	1084.9	1095.9
25°	1078.8	1089.7	1112.3	1114.4	1127.3	1162.2	1183.4	1199.9	1200.5	1206.7	1218.3
27.5°	1205.3	1250.5	1286.1	1305.2	1340.1	1372.2	1370.9	1394.1	1357.9	1365.4	1376.3
30°	1358.6	1433.8	1500.9	1546.0	1581.6	1619.2	1637.7	1650.7	1634.9	1628.1	1615.1
32.5°	1502.2	1607.6	1710.9	1790.9	1857.3	1919.5	1960.5	1979.0	2000.9	2056.3	2076.2
35°	1600.7	1749.9	1878.5	1994.1	2104.9	2204.1	2275.9	2316.9	2301.2	2293.7	2289.6
37.5°	1659.6	1841.5	2002.3	2165.8	2293.0	2441.4	2553.0	2661.0	2685.7	2642.6	2621.4
40°	1696.5	1912.0	2118.6	2311.5	2476.3	2667.9	2806.1	2968.2	3091.3	3107.7	3057.1
42.5°	1714.3	1959.2	2200.0	2418.2	2641.2	2875.8	3051.0	3247.3	3431.3	3557.8	3526.4
45°	1717.0	1990.0	2259.5	2514.6	2780.1	3058.5	3284.2	3501.8	3748.0	3964.9	3971.0
47.5°	1717.0	2013.2	2300.5	2584.4	2904.6	3217.2	3463.4	3720.7	4022.3	4278.9	4357.5
50°	1718.4	2029.0	2338.8	2639.1	2999.6	3351.3	3629.7	3933.4	4250.8	4529.9	4681.8
52.5°	1724.5	2040.6	2368.9	2678.1	3061.2	3445.7	3759.0	4109.2	4425.3	4711.9	4908.2
55°	1738.2	2057.0	2390.8	2702.1	3102.3	3507.2	3852.7	4229.6	4538.1	4828.9	5103.2
57.5°	1776.5	2085.7	2417.5	2723.3	3124.8	3547.6	3918.4	4281.6	4581.2	4884.3	5206.5
60°	1853.1	2146.6	2463.3	2765.7	3162.5	3622.2	3949.8	4246.7	4549.8	4867.8	5229.7
62.5°	1975.6	2241.7	2527.0	2837.5	3269.9	3737.8	3925.9	4142.7	4425.9	4772.8	5146.9
63°	2018.0	2262.2	2541.3	2853.3	3299.3	3759.0	3915.6	4111.9	4400.6	4742.7	5117.5
65°	2136.4	2353.2	2609.7	2932.6	3420.4	3780.2	3835.6	3951.9	4225.5	4571.0	4943.8
67.5°	2357.3	2574.2	2756.8	3066.7	3522.3	3696.7	3587.3	3601.6	3887.6	4245.3	4580.5
70°	2496.9	2755.4	2850.5	3083.8	3503.8	3572.9	3265.8	3075.6	3304.7	3712.4	4005.9
72.5°	2460.6	2757.5	2747.2	2856.0	3134.4	3198.7	2880.6	2581.0	2717.1	3021.5	3211.7
75°	2107.6	2462.7	2387.4	2365.5	2463.3	2505.7	2267.0	2221.2	2392.9	2561.8	2564.6
77.5°	1517.3	1907.9	1819.6	1693.1	1686.2	1784.1	1816.2	2116.5	2370.3	2503.7	2444.9
80°	966.6	1390.0	1298.4	1077.4	1074.0	1201.2	1483.7	1892.1	2161.0	2235.5	2082.3
82.5°	504.8	909.8	944.7	808.6	925.5	1136.2	1411.9	1524.8	1626.7	1637.0	1456.4
85°	314.7	559.6	658.1	679.3	835.9	1007.6	1005.6	965.9	920.8	788.0	712.8
87.5°	35.6	70.5	106.7	101.2	136.1	190.9	238.1	139.6	97.8	35.6	49.3
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°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	710.7	711.4	712.1	712.1	715.5	714.9	715.5	716.9	719.0	720.3	721.7
5°	716.2	716.2	719.0	721.0	725.1	727.9	729.2	733.3	738.1	736.7	740.8
7.5°	734.0	733.3	736.1	737.4	740.8	745.6	745.0	748.4	752.5	753.8	757.3
10°	757.9	755.9	755.9	754.5	755.2	753.8	753.8	753.8	756.6	755.9	758.6
12.5°	782.6	781.9	780.5	776.4	776.4	770.9	768.2	764.8	764.1	759.3	760.0
15°	833.2	833.2	830.5	822.3	815.4	810.6	803.8	799.0	792.2	783.3	778.5
17.5°	907.1	897.5	894.1	892.7	881.8	877.7	862.6	846.9	839.4	827.0	820.2
20°	997.4	995.3	981.6	974.8	961.1	942.0	922.8	902.3	890.0	874.9	866.7
22.5°	1099.3	1084.3	1077.4	1067.1	1045.9	1024.1	995.3	968.0	948.8	938.5	932.4
25°	1218.3	1203.3	1196.4	1182.8	1156.8	1133.5	1097.9	1065.8	1048.7	1031.6	1022.0
27.5°	1376.3	1362.0	1353.8	1318.2	1309.3	1271.0	1227.2	1183.4	1160.9	1135.6	1119.1
30°	1612.4	1613.0	1570.6	1527.5	1483.1	1416.7	1370.9	1321.6	1284.7	1248.4	1212.2
32.5°	2011.2	1909.2	1830.6	1738.2	1641.8	1571.3	1514.5	1455.7	1404.4	1351.7	1291.5
35°	2254.7	2205.4	2103.5	1934.6	1837.4	1751.9	1689.0	1617.8	1554.9	1461.9	1370.2
37.5°	2529.7	2415.5	2291.6	2197.9	2087.8	1988.6	1883.2	1802.5	1693.8	1568.6	1438.6
40°	2931.2	2767.7	2618.6	2492.8	2350.5	2246.5	2128.8	2011.9	1867.5	1686.2	1507.7
42.5°	3350.6	3181.6	2984.6	2821.1	2653.5	2531.7	2386.0	2221.9	2009.8	1785.4	1567.2
45°	3790.4	3564.7	3328.7	3128.9	2954.5	2803.3	2622.7	2405.2	2146.6	1874.4	1622.6
47.5°	4224.1	3964.9	3683.7	3468.9	3241.8	3057.1	2835.5	2560.5	2253.3	1958.5	1678.0
50°	4606.5	4356.8	4018.2	3745.3	3515.4	3287.6	3011.3	2680.2	2337.5	2031.0	1728.0
52.5°	4936.3	4721.5	4365.1	4020.3	3755.5	3499.7	3152.9	2776.6	2422.3	2098.0	1769.0
55°	5178.4	5035.4	4707.1	4279.5	3966.9	3661.8	3272.6	2869.7	2502.3	2151.4	1795.7
57.5°	5361.1	5281.7	4999.9	4523.8	4161.2	3819.2	3396.4	2981.2	2581.7	2197.2	1808.0
60°	5460.9	5482.8	5221.5	4737.2	4332.9	3950.5	3520.2	3076.3	2640.5	2223.9	1801.2
62.5°	5451.4	5585.4	5387.7	4868.5	4432.8	4028.5	3603.7	3120.7	2632.3	2181.5	1738.9
63°	5432.9	5588.9	5406.2	4877.4	4438.9	4031.2	3605.7	3114.6	2615.2	2161.0	1714.3
65°	5273.5	5510.2	5390.5	4837.1	4384.2	3979.9	3562.6	3025.6	2494.8	2050.8	1587.7
67.5°	4846.6	5142.8	5108.6	4551.8	4124.9	3767.9	3342.4	2739.0	2197.2	1780.0	1345.6
70°	4141.4	4419.8	4425.9	3958.7	3602.3	3252.1	2898.4	2228.7	1741.6	1379.8	1003.5
72.5°	3174.1	3353.3	3415.6	3107.7	2869.0	2622.7	2305.3	1617.8	1241.6	938.5	653.3
75°	2457.9	2408.6	2407.9	2278.0	2180.8	2060.4	1711.5	1091.8	815.4	610.2	399.5
77.5°	2209.5	1990.6	1778.6	1622.6	1544.6	1504.3	1122.6	658.1	480.9	350.9	229.8
80°	1822.4	1499.5	1211.5	1043.2	976.2	1022.7	625.9	355.7	263.4	199.7	149.1
82.5°	1256.6	1043.2	792.8	656.7	563.7	589.7	320.1	182.0	121.8	111.5	92.3
85°	654.7	573.9	484.3	415.9	367.3	322.9	166.2	86.9	50.6	44.5	40.4
87.5°	0.0	0.7	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	723.7	723.1	724.4	725.1	727.2	728.5	729.2	727.9	729.9	732.0	730.6
5°	742.9	747.7	748.4	750.4	750.4	754.5	754.5	754.5	753.8	754.5	753.2
7.5°	759.3	765.5	766.2	768.9	769.6	774.4	772.3	773.7	773.7	770.3	768.9
10°	761.4	767.5	770.9	774.4	779.2	785.3	785.3	788.7	788.7	786.0	785.3
12.5°	762.1	766.8	770.3	775.1	781.9	790.8	795.6	800.4	802.4	801.7	799.7
15°	776.4	776.4	777.1	781.2	786.0	796.9	803.8	809.3	812.7	811.3	807.9
17.5°	814.0	808.6	804.5	797.6	799.0	804.5	808.6	813.4	814.0	812.7	807.2
20°	857.8	851.0	840.7	829.8	824.3	820.2	817.5	817.5	815.4	808.6	799.7
22.5°	920.1	911.2	896.8	880.4	869.5	856.5	840.7	825.7	809.3	792.8	773.7
25°	1006.3	994.0	978.9	953.6	930.3	903.0	870.8	837.3	798.3	764.1	736.1
27.5°	1093.1	1065.8	1026.8	991.9	948.8	907.8	861.9	820.9	770.9	729.9	699.1
30°	1165.0	1113.0	1056.9	1001.5	944.7	889.3	834.6	785.3	730.6	688.9	658.8
32.5°	1220.4	1148.6	1070.6	998.1	928.3	860.6	797.6	742.9	687.5	644.4	612.2
35°	1271.7	1171.8	1072.6	983.0	896.8	826.4	755.2	695.7	636.9	591.7	556.8
37.5°	1310.0	1182.8	1060.3	955.0	855.8	777.1	704.6	643.7	583.5	534.3	494.6
40°	1334.6	1175.9	1033.6	914.6	807.2	724.4	650.6	587.6	529.5	475.4	427.5
42.5°	1354.5	1167.0	1007.0	877.7	768.9	678.6	602.7	534.9	476.1	417.3	364.6
45°	1383.9	1173.9	995.3	851.7	734.7	639.6	556.1	485.7	424.1	366.7	316.0
47.5°	1412.6	1177.3	978.2	819.5	691.6	599.2	514.4	446.0	383.1	330.4	283.9
50°	1438.6	1175.2	951.5	778.5	649.9	558.9	476.8	408.4	346.1	297.6	253.8
52.5°	1450.9	1163.6	918.7	738.8	616.3	523.3	439.9	373.5	311.9	266.1	225.7
55°	1449.5	1133.5	875.6	701.2	579.4	485.7	403.6	337.9	282.5	240.1	205.2
57.5°	1429.0	1087.0	829.8	659.4	530.8	439.2	361.2	297.6	251.1	215.5	186.1
60°	1385.9	1027.5	769.6	598.6	470.0	381.7	308.5	253.8	216.2	188.8	169.6
62.5°	1305.2	942.0	694.3	513.7	387.9	307.1	243.5	208.0	179.9	163.5	154.6
63°	1281.3	918.7	662.2	493.2	368.7	290.0	229.8	192.9	172.4	158.0	149.8
65°	1162.2	804.5	554.1	398.1	286.6	223.7	184.7	156.7	144.3	138.2	137.5
67.5°	941.3	632.8	392.0	272.9	195.0	161.4	141.6	130.0	124.5	123.1	124.5
70°	660.8	399.5	249.0	181.3	144.3	130.0	121.1	116.3	112.9	113.6	114.9
72.5°	421.4	239.4	171.0	137.5	121.8	114.2	110.1	108.8	108.1	107.4	107.4
75°	240.1	159.4	131.3	119.0	110.8	104.7	101.2	99.9	100.6	101.2	99.9
77.5°	158.7	131.3	117.0	108.8	101.2	94.4	92.3	91.7	93.0	94.4	94.4
80°	125.2	117.0	108.8	100.6	88.2	83.5	84.8	85.5	84.8	85.5	83.5
82.5°	88.2	86.9	88.9	85.5	73.2	69.1	67.7	68.4	67.0	67.0	65.7
85°	41.0	41.0	43.1	43.1	41.7	42.4	45.8	49.9	52.0	49.9	47.2
87.5°	0.0	0.0	0.0	0.0	0.0	6.2	12.3	17.8	19.2	23.9	23.3
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: P152931

CATALOG NUMBER: TLM-E02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	728.5	729.9	729.2	728.5	729.9	728.5	729.2	728.5	728.5	727.9	727.9
5°	751.8	753.8	749.7	749.1	747.7	744.3	744.3	742.9	742.9	740.2	738.1
7.5°	766.8	767.5	764.1	763.4	760.0	756.6	753.8	751.1	750.4	748.4	744.3
10°	781.2	779.8	777.1	773.7	770.3	765.5	762.1	758.6	757.9	754.5	749.7
12.5°	793.5	792.8	787.4	783.9	778.5	773.7	769.6	765.5	763.4	759.3	752.5
15°	801.7	797.6	790.8	784.6	778.5	773.0	768.2	763.4	761.4	756.6	749.7
17.5°	798.3	790.8	781.9	774.4	766.2	759.3	755.2	750.4	747.0	744.3	734.7
20°	786.0	775.1	761.4	752.5	741.5	732.6	729.9	725.1	722.4	712.1	699.8
22.5°	753.8	738.1	721.0	708.0	695.7	686.8	680.0	675.2	668.3	662.2	643.0
25°	713.5	695.7	677.9	662.2	645.8	632.1	619.8	608.1	604.7	591.7	573.3
27.5°	674.5	654.7	636.9	618.4	597.2	580.1	558.9	542.5	531.5	517.8	500.7
30°	632.8	612.9	589.0	564.4	539.7	521.3	497.3	477.5	463.8	449.4	433.7
32.5°	580.1	556.1	527.4	500.1	477.5	455.6	431.6	412.5	398.8	385.8	370.8
35°	519.9	488.4	457.6	427.5	403.6	385.1	363.9	349.6	340.0	328.4	312.6
37.5°	450.8	415.2	382.4	359.1	337.9	320.1	305.1	296.2	285.9	279.8	270.2
40°	381.0	346.1	314.0	292.8	275.0	264.7	256.5	254.5	247.6	239.4	233.3
42.5°	319.5	285.9	254.5	237.4	225.7	223.0	218.9	218.9	215.5	209.3	205.2
45°	277.7	242.8	215.5	203.2	197.0	196.3	194.3	194.3	193.6	190.9	186.1
47.5°	247.6	216.2	195.0	187.4	186.1	184.7	182.6	182.0	181.3	179.2	176.5
50°	220.3	193.6	179.9	176.5	177.2	175.1	173.1	171.0	170.3	168.3	165.5
52.5°	195.0	175.8	166.9	164.9	164.9	164.9	163.5	163.5	162.1	161.4	158.7
55°	180.6	166.2	161.4	160.8	160.1	159.4	158.0	158.0	156.7	156.0	152.5
57.5°	168.3	159.4	156.7	155.3	154.6	153.2	152.5	152.5	152.5	152.5	148.4
60°	158.7	154.6	153.9	152.5	151.9	149.1	147.8	147.1	147.8	148.4	144.3
62.5°	148.4	147.8	147.1	145.7	145.0	142.3	140.2	138.9	140.2	141.6	140.9
63°	145.7	145.0	145.0	144.3	143.7	140.2	138.2	136.8	138.2	139.6	139.6
65°	136.1	136.8	136.8	136.1	135.4	133.4	130.7	129.3	130.0	132.0	132.7
67.5°	125.9	126.6	125.9	126.6	125.9	124.5	122.4	121.1	120.4	121.1	121.8
70°	116.3	117.7	117.0	116.3	115.6	115.6	114.2	112.2	111.5	110.8	110.8
72.5°	108.1	108.1	106.7	106.7	106.0	106.0	104.7	102.6	101.9	101.9	100.6
75°	99.2	99.2	97.1	97.1	95.8	96.5	95.1	93.0	92.3	92.3	91.7
77.5°	93.7	91.7	88.2	87.6	86.9	86.9	86.2	84.1	83.5	83.5	82.8
80°	82.8	78.7	75.2	74.6	75.2	76.6	76.6	75.2	75.2	75.2	75.2
82.5°	64.3	62.9	60.9	59.5	59.5	61.6	64.3	65.7	67.0	68.4	68.4
85°	47.2	47.9	47.2	45.1	44.5	46.5	49.3	52.0	52.7	55.4	54.7
87.5°	25.3	26.0	23.9	23.3	25.3	26.7	29.4	30.1	31.5	32.2	32.8
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: P152931

CATALOG NUMBER: TLM-E02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	727.2	726.5	727.2	725.8	725.8	724.4	723.1	722.4	721.0	720.3	719.0
5°	739.5	737.4	735.4	734.7	732.0	729.2	727.2	723.7	721.0	716.2	714.9
7.5°	747.7	742.9	740.2	739.5	735.4	733.3	728.5	724.4	720.3	714.2	712.1
10°	751.1	746.3	741.5	739.5	734.7	731.3	726.5	720.3	716.9	710.7	709.4
12.5°	755.2	746.3	738.8	733.3	726.5	719.0	714.2	710.7	706.0	702.5	701.2
15°	747.7	736.1	724.4	714.2	703.2	695.0	690.2	684.8	679.3	677.2	677.2
17.5°	727.2	712.1	692.3	679.3	667.7	658.8	652.6	647.1	646.4	643.7	645.1
20°	684.8	664.9	645.8	636.2	629.3	623.9	617.7	615.0	612.9	608.8	607.5
22.5°	625.9	609.5	595.8	589.0	583.5	576.7	571.2	563.0	560.9	556.8	554.8
25°	560.9	547.9	536.3	531.5	528.1	518.5	515.1	504.2	496.6	491.8	494.6
27.5°	496.0	486.4	475.4	469.3	467.2	458.3	454.9	442.6	436.4	436.4	429.6
30°	428.9	420.0	413.2	406.3	405.0	394.0	385.1	380.3	373.5	370.8	366.0
32.5°	366.0	357.1	351.6	348.2	342.7	333.8	324.9	316.7	305.8	301.7	299.6
35°	307.8	301.0	294.2	291.4	283.9	274.3	263.4	256.5	243.5	238.7	236.7
37.5°	263.4	255.2	250.4	242.8	235.3	225.1	216.9	210.7	205.9	203.9	203.9
40°	227.8	221.6	216.2	210.0	203.9	198.4	194.3	192.9	192.2	192.2	193.6
42.5°	201.1	195.6	192.9	189.5	187.4	187.4	186.8	187.4	188.1	188.8	190.9
45°	183.3	179.9	178.5	177.9	179.2	180.6	181.3	182.6	185.4	186.8	187.4
47.5°	173.8	171.0	170.3	171.0	173.1	175.8	178.5	180.6	182.6	183.3	184.0
50°	164.2	160.8	159.4	160.8	163.5	167.6	169.6	173.1	174.4	175.8	174.4
52.5°	156.0	153.2	152.5	152.5	155.3	158.0	160.8	163.5	164.2	164.2	163.5
55°	149.1	147.1	145.0	146.4	148.4	151.2	155.3	157.3	158.7	159.4	159.4
57.5°	143.7	141.6	139.6	140.9	143.0	145.7	149.8	151.9	153.2	155.3	156.0
60°	139.6	136.8	134.8	136.8	138.9	143.0	146.4	148.4	151.9	152.5	152.5
62.5°	135.4	132.7	129.3	131.3	131.3	133.4	136.8	139.6	143.0	144.3	144.3
63°	134.8	132.0	128.6	130.0	130.0	131.3	134.1	136.8	140.9	142.3	141.6
65°	129.3	128.6	125.2	125.2	123.8	125.2	127.2	130.0	132.0	134.1	134.1
67.5°	120.4	119.7	119.0	119.0	119.0	120.4	121.8	123.8	125.9	127.2	126.6
70°	110.1	110.1	110.1	110.8	110.8	112.2	112.9	112.2	114.2	115.6	114.9
72.5°	101.2	100.6	99.9	101.2	100.6	100.6	101.9	101.2	103.3	103.3	104.0
75°	91.7	91.0	91.0	91.7	90.3	88.9	89.6	89.6	90.3	90.3	91.7
77.5°	83.5	83.5	83.5	82.8	81.4	80.7	80.0	80.0	80.0	80.0	80.7
80°	75.9	75.9	75.9	75.2	73.9	72.5	71.1	70.5	69.8	66.4	66.4
82.5°	68.4	68.4	68.4	68.4	67.7	66.4	64.3	58.8	56.1	53.4	54.0
85°	54.0	55.4	56.8	58.8	58.1	58.1	54.0	47.2	43.1	40.4	41.0
87.5°	34.9	30.8	30.8	30.1	28.7	27.4	27.4	23.3	19.2	17.1	17.8
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: P152931

CATALOG NUMBER: TLM-E02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	719.0	717.6	716.2	716.2	714.2	714.2	712.8	715.5	712.8	710.7	710.7
5°	713.5	712.1	708.0	707.3	704.6	704.6	704.6	703.2	703.2	701.9	701.2
7.5°	710.1	706.6	703.2	701.2	701.2	699.8	702.5	701.2	701.9	701.9	702.5
10°	707.3	704.6	703.2	702.5	702.5	704.6	706.6	707.3	706.6	707.3	707.3
12.5°	700.5	701.9	702.5	705.3	708.7	712.8	717.6	718.3	719.6	719.6	721.0
15°	678.6	682.0	686.1	693.0	701.9	710.7	719.6	727.2	734.0	737.4	740.2
17.5°	647.8	651.2	658.8	666.3	677.9	690.9	706.0	719.0	733.3	746.3	759.3
20°	606.1	611.6	613.6	627.3	641.0	658.8	676.5	697.1	721.7	746.3	771.6
22.5°	552.0	558.2	567.8	578.7	593.1	615.0	636.2	668.3	701.2	736.1	775.7
25°	491.8	498.7	506.9	518.5	532.9	556.1	586.9	621.1	661.5	707.3	756.6
27.5°	429.6	436.4	443.3	451.5	467.9	492.5	528.8	564.4	608.8	658.8	716.2
30°	367.3	368.0	372.1	382.4	399.5	431.6	458.3	502.8	549.3	602.0	668.3
32.5°	298.9	298.3	303.0	311.9	328.4	359.1	392.0	435.1	480.9	547.3	615.7
35°	238.1	238.1	246.9	255.8	274.3	296.2	324.9	363.2	417.3	478.8	547.3
37.5°	205.9	210.7	216.2	225.1	239.4	256.5	281.8	315.4	357.8	416.6	479.5
40°	195.6	198.4	203.2	211.4	223.7	239.4	257.9	283.2	316.0	363.2	420.7
42.5°	191.5	192.2	195.0	201.1	212.1	227.8	246.9	269.5	294.2	327.7	377.6
45°	187.4	186.8	188.1	192.9	201.8	219.6	241.5	266.1	290.7	318.8	359.8
47.5°	184.0	184.0	184.0	186.1	194.3	212.1	237.4	266.1	295.5	327.0	367.3
50°	174.4	173.8	173.8	175.1	181.3	200.4	230.5	265.4	303.7	344.8	390.6
52.5°	163.5	163.5	164.2	164.9	170.3	189.5	223.0	265.4	313.3	368.0	425.5
55°	160.1	160.8	161.4	160.8	164.9	181.3	214.8	261.3	317.4	386.5	463.1
57.5°	157.3	158.7	158.7	158.0	160.8	174.4	206.6	253.1	314.0	393.3	489.8
60°	153.2	153.2	153.2	151.2	152.5	164.9	194.3	240.1	303.0	387.2	493.9
62.5°	144.3	144.3	143.0	142.3	141.6	151.2	177.9	221.0	283.2	370.8	483.6
63°	142.3	141.6	141.6	139.6	139.6	148.4	174.4	218.2	277.7	366.7	479.5
65°	134.8	134.8	134.8	133.4	132.7	139.6	160.8	199.1	256.5	347.5	459.0
67.5°	126.6	127.2	125.9	125.2	124.5	128.6	145.0	175.1	223.7	307.1	420.7
70°	114.9	115.6	115.6	114.9	114.2	117.0	127.2	150.5	185.4	255.8	358.5
72.5°	104.7	106.0	106.0	107.4	107.4	109.5	113.6	125.2	148.4	199.7	281.8
75°	93.7	94.4	95.8	97.1	95.8	95.1	95.8	104.7	116.3	147.8	201.1
77.5°	84.1	86.2	86.2	85.5	83.5	82.1	82.1	86.2	95.8	112.2	143.7
80°	69.8	73.2	73.9	71.8	69.8	69.8	71.1	73.9	80.0	92.3	108.8
82.5°	56.1	59.5	60.2	60.9	60.2	62.3	62.3	62.9	66.4	75.9	88.9
85°	43.1	45.8	47.9	48.6	49.3	49.9	49.3	45.8	47.9	54.0	60.2
87.5°	19.2	19.8	18.5	19.2	18.5	19.2	19.8	16.4	15.7	21.2	21.9
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: P152931

CATALOG NUMBER: TLM-E02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	717.6	717.6	717.6	717.6	717.6	717.6	717.6
2.5°	710.1	710.1	710.7	709.4	709.4	710.1	708.0
5°	699.1	701.9	701.9	701.9	700.5	701.9	702.5
7.5°	701.9	703.9	705.3	705.3	704.6	707.3	709.4
10°	705.3	708.7	710.1	710.1	710.1	713.5	718.3
12.5°	718.3	721.0	723.1	723.1	724.4	728.5	734.0
15°	742.2	745.6	745.6	745.0	749.1	753.8	760.0
17.5°	768.9	778.5	783.3	782.6	786.0	792.2	799.0
20°	794.2	820.9	832.5	840.7	844.1	852.4	854.4
22.5°	815.4	859.9	892.0	919.4	932.4	940.6	950.2
25°	807.9	868.1	925.5	981.6	1021.3	1061.7	1078.8
27.5°	777.1	852.4	927.6	1009.7	1081.5	1153.3	1205.3
30°	739.5	829.8	931.0	1047.3	1160.9	1271.0	1358.6
32.5°	696.4	808.6	938.5	1082.2	1231.3	1375.7	1502.2
35°	642.3	768.2	920.1	1085.6	1261.4	1436.5	1600.7
37.5°	573.9	713.5	877.0	1061.0	1262.8	1463.2	1659.6
40°	505.5	644.4	822.3	1025.4	1245.0	1469.4	1696.5
42.5°	457.6	582.8	766.8	980.3	1216.3	1459.8	1714.3
45°	424.8	538.4	717.6	939.2	1185.5	1442.7	1717.0
47.5°	422.1	519.2	685.4	909.1	1160.9	1427.7	1717.0
50°	445.3	529.5	674.5	894.1	1150.6	1422.9	1718.4
52.5°	489.1	570.5	694.3	905.7	1158.8	1429.0	1724.5
55°	541.8	632.8	747.7	946.1	1193.7	1449.5	1738.2
57.5°	589.7	704.6	838.7	1024.1	1257.3	1501.5	1776.5
60°	617.7	766.2	935.1	1133.5	1366.1	1604.8	1853.1
62.5°	621.1	800.4	1020.6	1252.5	1498.1	1723.2	1975.6
63°	618.4	803.1	1031.6	1275.1	1526.2	1752.6	2018.0
65°	603.4	803.8	1062.4	1354.5	1623.3	1876.4	2136.4
67.5°	565.0	781.9	1073.3	1416.7	1745.7	2039.2	2357.3
70°	498.7	719.6	1041.2	1418.1	1792.9	2130.2	2496.9
72.5°	400.9	601.3	902.3	1290.2	1668.4	2040.6	2460.6
75°	293.5	441.9	682.0	999.4	1361.3	1698.5	2107.6
77.5°	195.0	285.9	459.7	712.1	976.2	1222.4	1517.3
80°	134.1	177.2	268.8	428.2	597.2	716.9	966.6
82.5°	98.5	117.0	149.1	218.9	287.3	353.7	504.8
85°	61.6	67.0	74.6	108.1	154.6	208.6	314.7
87.5°	16.4	17.1	15.7	21.2	33.5	32.2	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)