

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: P152398

Luminaire Tested: **TLM-E06-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152398
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E06-LED-E1-SL4-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

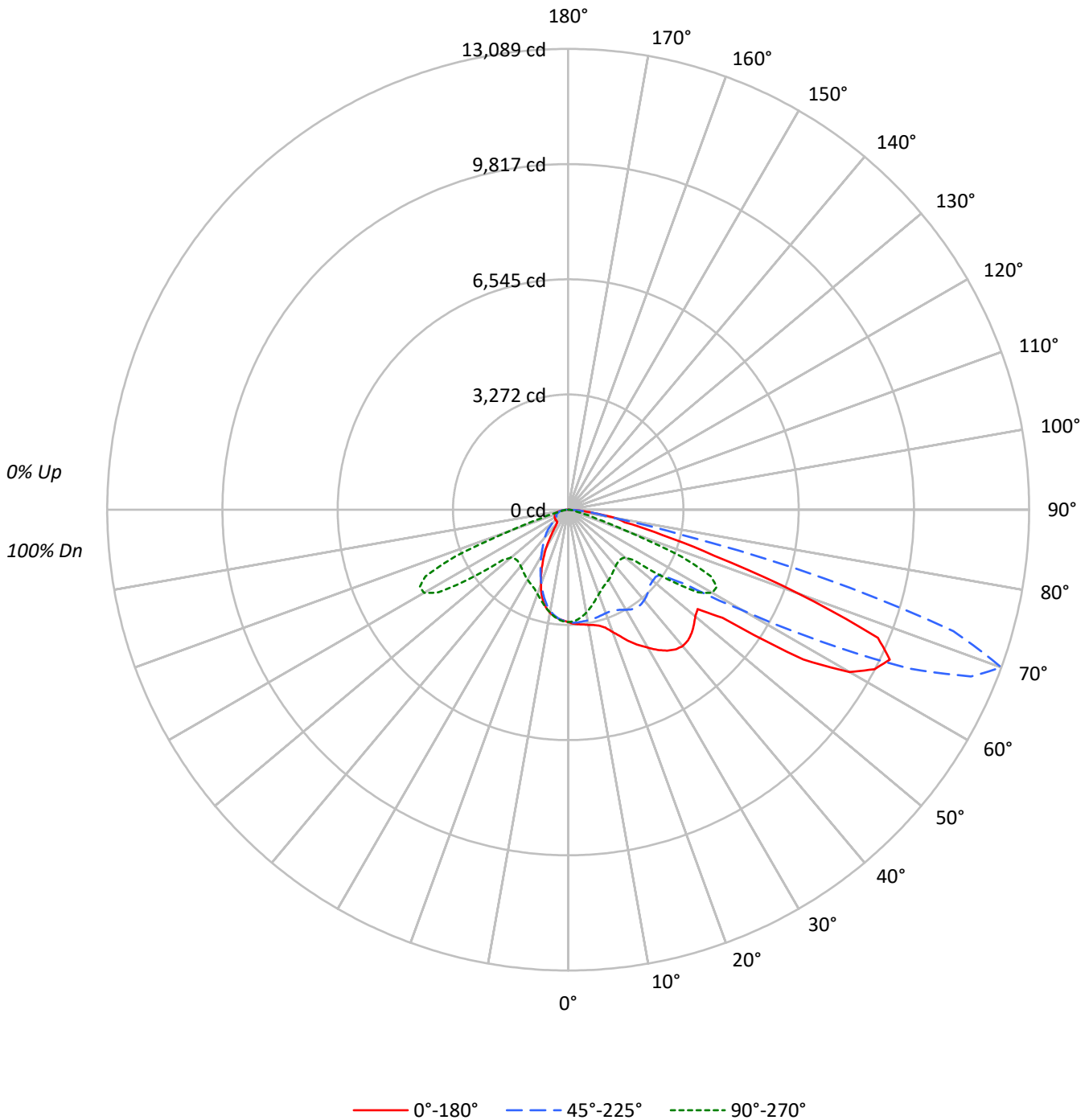
Lumens per Lamp: N/A
Luminaire Lumens: 14959.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	66	61	59					59			
3	83	70	59	51	80	68	58	51	65	57	50	62	55	49	59	53	48	45					45			
4	74	60	49	41	72	58	48	40	55	47	40	53	45	39	51	44	39	36					36			
5	67	52	41	33	65	51	41	33	48	40	33	46	38	32	44	37	32	29					29			
6	61	46	36	28	59	45	35	28	43	34	28	41	33	27	39	32	27	25					25			
7	57	41	31	24	55	40	31	24	39	30	24	37	29	23	36	29	23	21					21			
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18					18			
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16					16			
10	46	31	23	17	44	31	22	17	30	22	17	29	21	16	28	21	16	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	34358	34358	34358
5°	35274	33833	33614
10°	36308	32435	32489
15°	38015	30717	30266
20°	42306	29158	25929
25°	49057	28428	20730
30°	56227	28596	15483
35°	64190	28813	10069
40°	71036	29411	6950
45°	75467	31066	6938
50°	78919	35305	7716
55°	100417	64622	8426
60°	198517	101639	9449
65°	256621	113931	10618
70°	218337	53867	11953
75°	114780	19796	14743
80°	85381	10780	16011
85°	49413	10424	16055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	2.0
10°-20°	816.3	5.5
20°-30°	1208.5	8.1
30°-40°	1527.2	10.2
40°-50°	1727.2	11.5
50°-60°	2457.8	16.4
60°-70°	4577.4	30.6
70°-80°	2097.9	14.0
80°-90°	249.0	1.7
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°	2323.0	15.5
0°-40°	3850.2	25.7
0°-60°	8035.2	53.7
0°-90°	14959.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14959.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3192	3192	3192	3192	3192	
5°	3265	3210	3131	3106	3111	313
15°	3411	3165	2756	2610	2716	982
25°	4130	3148	2394	1865	1745	1918
35°	4885	3400	2193	1249	766	3054
45°	4958	3229	2041	817	456	3814
55°	5351	3210	3444	415	449	5622
65°	10076	10670	4473	371	417	9291
75°	2760	7501	476	292	354	3393
85°	400	351	84	133	130	503
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°	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0
2.5°	3240.9	3249.4	3239.2	3237.5	3237.5	3235.9	3225.7	3224.0	3210.5	3212.2	3215.6
5°	3264.6	3267.9	3261.2	3259.5	3256.1	3249.4	3240.9	3230.8	3220.7	3210.5	3202.1
7.5°	3288.2	3284.8	3279.7	3279.7	3274.7	3264.6	3247.7	3234.2	3212.2	3200.4	3185.2
10°	3321.9	3316.9	3310.1	3306.8	3298.3	3283.1	3259.5	3240.9	3213.9	3190.3	3165.0
12.5°	3354.0	3352.3	3342.2	3337.1	3323.6	3308.4	3279.7	3251.1	3215.6	3178.5	3144.7
15°	3411.4	3404.7	3394.5	3384.4	3362.5	3342.2	3298.3	3264.6	3213.9	3165.0	3112.6
17.5°	3511.0	3499.2	3489.1	3467.1	3440.1	3404.7	3340.5	3283.1	3213.9	3143.0	3083.9
20°	3693.3	3668.0	3654.5	3625.8	3578.5	3514.4	3414.8	3321.9	3219.0	3127.8	3048.5
22.5°	3899.2	3882.4	3863.8	3845.2	3771.0	3678.1	3543.1	3404.7	3249.4	3121.1	3019.8
25°	4130.5	4108.5	4098.4	4066.3	3997.1	3890.8	3706.8	3514.4	3318.6	3148.1	3019.8
27.5°	4336.4	4329.7	4328.0	4290.8	4225.0	4100.1	3882.4	3651.1	3413.1	3203.8	3045.1
30°	4523.8	4517.0	4513.7	4493.4	4417.4	4268.9	4032.6	3772.6	3516.1	3281.4	3092.4
32.5°	4723.0	4701.0	4690.9	4652.1	4566.0	4392.1	4122.1	3852.0	3597.1	3357.4	3144.7
35°	4885.0	4866.5	4846.2	4790.5	4669.0	4463.0	4160.9	3879.0	3629.2	3399.6	3171.7
37.5°	5003.2	4984.6	4955.9	4885.0	4734.8	4486.7	4159.2	3870.5	3617.3	3392.8	3176.8
40°	5055.5	5036.9	5006.6	4917.1	4746.6	4473.2	4127.1	3831.7	3581.9	3357.4	3156.5
42.5°	5035.2	5021.7	4982.9	4896.8	4709.5	4412.4	4063.0	3759.1	3514.4	3300.0	3111.0
45°	4957.6	4947.5	4910.3	4819.2	4625.1	4314.5	3968.4	3668.0	3433.4	3229.1	3050.2
47.5°	4841.1	4837.8	4800.6	4711.2	4518.7	4216.6	3870.5	3578.5	3352.3	3159.9	2999.5
50°	4712.8	4696.0	4677.4	4594.7	4419.1	4132.2	3799.6	3522.8	3306.8	3134.6	2977.6
52.5°	4631.8	4626.8	4609.9	4535.6	4366.8	4083.2	3767.6	3502.6	3303.4	3129.5	2965.8
55°	5350.9	5362.7	5207.4	4885.0	4601.4	4218.3	3863.8	3605.5	3386.1	3210.5	3090.7
57.5°	7914.9	7862.6	7595.9	6956.2	6233.7	5280.0	4593.0	4176.1	3904.3	3934.7	3995.5
60°	9221.4	9211.3	9162.4	8914.2	8433.2	7707.3	6902.2	5978.8	5685.1	5717.2	5740.8
62.5°	9805.5	9820.7	9857.8	9765.0	9638.4	9427.4	9025.6	8654.3	8261.0	8114.1	7720.8
65°	10075.6	10102.6	10187.0	10239.3	10288.2	10325.4	10484.1	10919.6	11206.5	10669.7	9420.6
67.5°	9516.8	9646.8	9925.3	10197.1	10440.2	10786.2	11323.0	12334.1	13038.0	12378.0	10566.8
70°	6937.6	7114.8	7433.9	8274.5	9172.5	9957.4	10997.2	12536.6	13598.4	13088.6	10850.3
72.5°	4349.9	4398.9	4540.7	4849.6	5516.3	6524.0	8342.0	10651.2	11876.6	11469.8	9170.8
75°	2759.9	2776.7	2771.7	2842.6	2955.7	3175.1	3894.2	6291.1	8136.1	7501.4	5111.2
77.5°	1644.1	1669.4	1679.5	1701.5	1755.5	1833.1	1892.2	2140.4	3411.4	3311.8	1855.1
80°	1377.4	1397.6	1380.8	1375.7	1341.9	1318.3	1347.0	1318.3	1223.8	1178.2	1085.4
82.5°	729.2	727.5	722.5	771.4	871.0	948.6	1007.7	994.2	899.7	766.3	649.9
85°	400.1	413.6	413.6	430.4	415.2	416.9	430.4	454.1	420.3	351.1	287.0
87.5°	33.8	52.3	42.2	52.3	70.9	50.6	49.0	49.0	42.2	30.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0
2.5°	3207.2	3203.8	3197.0	3192.0	3192.0	3183.5	3178.5	3175.1	3173.4	3166.7	3166.7
5°	3197.0	3185.2	3173.4	3165.0	3159.9	3151.5	3138.0	3131.2	3122.8	3116.0	3112.6
7.5°	3175.1	3153.2	3134.6	3121.1	3104.2	3090.7	3073.8	3058.6	3043.4	3036.7	3033.3
10°	3141.3	3112.6	3083.9	3058.6	3035.0	3011.4	2989.4	2967.5	2948.9	2935.4	2921.9
12.5°	3109.3	3065.4	3028.2	2991.1	2954.0	2925.3	2894.9	2862.8	2835.8	2810.5	2803.7
15°	3065.4	3014.7	2967.5	2921.9	2876.3	2829.1	2791.9	2756.5	2712.6	2683.9	2661.9
17.5°	3024.9	2964.1	2906.7	2852.7	2797.0	2748.0	2692.3	2645.1	2601.2	2557.3	2525.2
20°	2981.0	2915.1	2854.4	2793.6	2732.8	2670.4	2606.2	2545.5	2491.5	2439.1	2386.8
22.5°	2942.2	2874.6	2815.6	2749.7	2682.2	2611.3	2537.0	2461.1	2398.6	2331.1	2270.3
25°	2918.5	2844.2	2783.5	2719.3	2645.1	2567.4	2483.0	2393.6	2317.6	2240.0	2167.4
27.5°	2918.5	2822.3	2759.9	2695.7	2619.7	2537.0	2444.2	2346.3	2260.2	2174.1	2084.7
30°	2943.8	2825.7	2741.3	2673.8	2596.1	2506.7	2403.7	2300.7	2206.2	2104.9	2018.8
32.5°	2967.5	2832.4	2727.8	2641.7	2552.2	2464.5	2359.8	2250.1	2145.4	2049.2	1958.1
35°	2982.7	2832.4	2702.5	2592.7	2491.5	2405.4	2302.4	2192.7	2086.3	1991.8	1907.4
37.5°	2984.4	2818.9	2661.9	2537.0	2430.7	2341.2	2243.3	2140.4	2039.1	1951.3	1880.4
40°	2967.5	2791.9	2621.4	2478.0	2366.6	2275.4	2185.9	2093.1	2001.9	1929.4	1868.6
42.5°	2937.1	2763.2	2582.6	2430.7	2314.2	2219.7	2137.0	2057.6	1978.3	1915.9	1865.2
45°	2891.5	2724.4	2547.2	2402.0	2287.2	2187.6	2106.6	2040.8	1973.3	1920.9	1870.3
47.5°	2851.0	2710.9	2559.0	2420.6	2300.7	2197.8	2115.0	2059.3	2007.0	1971.6	1902.4
50°	2842.6	2704.1	2564.0	2435.8	2314.2	2209.6	2137.0	2108.3	2093.1	2071.2	1964.8
52.5°	2818.9	2702.5	2601.2	2530.3	2452.6	2403.7	2327.7	2354.7	2337.9	2260.2	2067.8
55°	3067.1	3100.8	3195.3	3330.4	3455.3	3484.0	3475.6	3443.5	3273.0	2815.6	2315.9
57.5°	4216.6	4407.3	4586.2	4665.6	4655.5	4566.0	4501.8	4371.9	4125.4	3568.4	2805.4
60°	5813.4	5843.8	5749.3	5609.2	5372.8	5175.4	4964.4	4721.3	4363.4	3818.2	3105.9
62.5°	7283.6	6875.2	6454.8	6059.9	5700.3	5386.4	5092.6	4753.4	4287.5	3718.6	3067.1
65°	8321.8	7457.5	6794.1	6227.0	5718.9	5280.0	4913.7	4473.2	3948.2	3435.0	2842.6
67.5°	8856.8	7531.8	6513.9	5723.9	5003.2	4395.5	3907.7	3478.9	3089.0	2864.5	2488.1
70°	8259.3	6392.4	4974.5	4081.5	3219.0	2580.9	2039.1	1711.6	1598.5	1811.2	1883.8
72.5°	6154.4	4160.9	2959.0	2288.9	1753.8	1397.6	1071.9	842.3	685.3	719.1	933.5
75°	2910.1	1796.0	1269.4	965.5	768.0	636.4	519.9	476.0	398.4	330.8	310.6
77.5°	1132.6	825.4	681.9	499.6	354.5	285.3	243.1	234.6	239.7	232.9	229.6
80°	862.6	584.0	366.3	268.4	231.3	204.2	180.6	173.9	177.2	185.7	194.1
82.5°	481.1	300.5	222.8	194.1	173.9	148.5	135.0	124.9	126.6	136.7	155.3
85°	185.7	145.2	133.4	128.3	119.8	96.2	82.7	84.4	96.2	114.8	114.8
87.5°	20.3	20.3	27.0	20.3	20.3	20.3	18.6	21.9	23.6	30.4	35.4
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°	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0	3192.0
2.5°	3163.3	3163.3	3163.3	3159.9	3161.6	3154.8	3154.8	3149.8	3158.2	3153.2	3151.5
5°	3114.3	3112.6	3105.9	3105.9	3105.9	3105.9	3111.0	3097.4	3107.6	3107.6	3102.5
7.5°	3031.6	3031.6	3013.0	3023.2	3019.8	3024.9	3031.6	3024.9	3035.0	3041.7	3036.7
10°	2916.8	2916.8	2901.6	2913.5	2908.4	2920.2	2932.0	2925.3	2932.0	2942.2	2945.5
12.5°	2790.2	2783.5	2770.0	2775.0	2775.0	2781.8	2786.9	2795.3	2803.7	2817.2	2824.0
15°	2643.4	2633.3	2616.4	2616.4	2606.2	2609.6	2619.7	2623.1	2640.0	2658.6	2680.5
17.5°	2493.1	2467.8	2449.3	2427.3	2410.4	2423.9	2435.8	2444.2	2457.7	2486.4	2501.6
20°	2351.4	2300.7	2265.3	2236.6	2218.0	2226.4	2241.6	2251.8	2263.6	2270.3	2275.4
22.5°	2211.3	2153.9	2104.9	2069.5	2039.1	2047.5	2040.8	2035.7	2044.1	2022.2	2020.5
25°	2089.7	2022.2	1956.4	1914.2	1877.0	1865.2	1829.8	1821.3	1797.7	1779.1	1765.6
27.5°	2001.9	1914.2	1841.6	1792.6	1733.6	1689.7	1644.1	1598.5	1573.2	1542.8	1527.6
30°	1932.7	1839.9	1753.8	1671.1	1593.5	1525.9	1465.2	1406.1	1365.6	1321.7	1293.0
32.5°	1868.6	1782.5	1677.9	1564.8	1460.1	1384.1	1304.8	1237.3	1173.1	1115.8	1073.6
35°	1824.7	1728.5	1595.1	1456.7	1338.6	1249.1	1164.7	1068.5	990.8	916.6	871.0
37.5°	1801.1	1682.9	1519.2	1365.6	1233.9	1132.6	1028.0	916.6	822.0	752.8	683.6
40°	1782.5	1637.3	1451.7	1284.6	1146.1	1024.6	903.1	771.4	666.8	594.2	540.2
42.5°	1762.3	1586.7	1392.6	1220.4	1066.8	925.0	778.2	638.1	538.5	487.8	464.2
45°	1740.3	1542.8	1336.9	1159.6	989.2	817.0	648.2	518.2	459.1	442.3	442.3
47.5°	1735.2	1514.1	1296.4	1100.6	901.4	692.1	528.3	447.3	430.4	433.8	440.6
50°	1755.5	1505.7	1260.9	1031.4	784.9	560.4	447.3	420.3	423.7	433.8	443.9
52.5°	1804.5	1512.4	1223.8	935.1	646.5	462.5	413.6	411.9	422.0	437.2	447.3
55°	1887.2	1512.4	1152.9	791.7	516.5	415.2	401.7	408.5	422.0	435.5	443.9
57.5°	2064.4	1497.2	1028.0	633.0	432.1	398.4	398.4	406.8	418.6	432.1	438.9
60°	2275.4	1477.0	852.4	489.5	389.9	384.9	396.7	406.8	416.9	428.7	435.5
62.5°	2288.9	1424.7	675.2	405.1	368.0	376.4	395.0	408.5	411.9	420.3	428.7
65°	2103.2	1242.4	536.8	362.9	357.9	371.4	389.9	400.1	401.7	405.1	413.6
67.5°	1841.6	1012.8	433.8	342.7	347.7	362.9	373.0	381.5	386.5	395.0	396.7
70°	1512.4	813.6	371.4	322.4	327.5	344.3	352.8	361.2	371.4	381.5	376.4
72.5°	1071.9	633.0	325.8	300.5	307.2	322.4	332.5	339.3	347.7	357.9	351.1
75°	455.8	442.3	281.9	271.8	281.9	292.0	302.1	312.3	320.7	325.8	325.8
77.5°	232.9	259.9	243.1	243.1	249.8	259.9	268.4	278.5	283.6	288.6	295.4
80°	197.5	200.9	204.2	211.0	217.7	227.9	236.3	244.8	246.4	248.1	251.5
82.5°	163.7	170.5	173.9	184.0	189.1	192.4	197.5	197.5	200.9	200.9	195.8
85°	118.2	126.6	131.7	133.4	131.7	133.4	135.0	138.4	146.9	146.9	140.1
87.5°	33.8	32.1	40.5	42.2	45.6	52.3	59.1	70.9	74.3	77.6	77.6
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: P152398

CATALOG NUMBER: TLM-E06-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3192.0	3192.0	3192.0	3192.0
2.5°	3149.8	3153.2	3146.4	3148.1
5°	3102.5	3109.3	3100.8	3111.0
7.5°	3041.7	3051.9	3050.2	3048.5
10°	2954.0	2967.5	2967.5	2972.5
12.5°	2842.6	2851.0	2857.8	2861.1
15°	2692.3	2707.5	2716.0	2716.0
17.5°	2511.7	2521.8	2526.9	2520.2
20°	2282.2	2278.8	2280.5	2263.6
22.5°	2017.1	2022.2	2007.0	2010.4
25°	1757.2	1748.7	1755.5	1745.4
27.5°	1505.7	1507.4	1488.8	1497.2
30°	1266.0	1257.5	1233.9	1245.7
32.5°	1034.7	1012.8	987.5	972.3
35°	817.0	783.2	771.4	766.3
37.5°	641.4	604.3	592.5	579.0
40°	509.8	496.3	491.2	494.6
42.5°	457.4	457.4	460.8	462.5
45°	443.9	449.0	454.1	455.8
47.5°	445.6	450.7	457.4	459.1
50°	449.0	454.1	459.1	460.8
52.5°	450.7	450.7	454.1	455.8
55°	447.3	445.6	447.3	449.0
57.5°	440.6	437.2	438.9	443.9
60°	437.2	432.1	435.5	438.9
62.5°	428.7	427.1	430.4	432.1
65°	410.2	411.9	416.9	416.9
67.5°	393.3	395.0	396.7	398.4
70°	373.0	374.7	378.1	379.8
72.5°	349.4	356.2	361.2	368.0
75°	330.8	337.6	347.7	354.5
77.5°	298.8	303.8	315.7	324.1
80°	253.2	251.5	253.2	258.3
82.5°	194.1	194.1	192.4	190.7
85°	136.7	135.0	130.0	130.0
87.5°	74.3	72.6	70.9	67.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)