

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: P152405

Luminaire Tested: **TLM-F06-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152405
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-F06-LED-E1-SL4
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

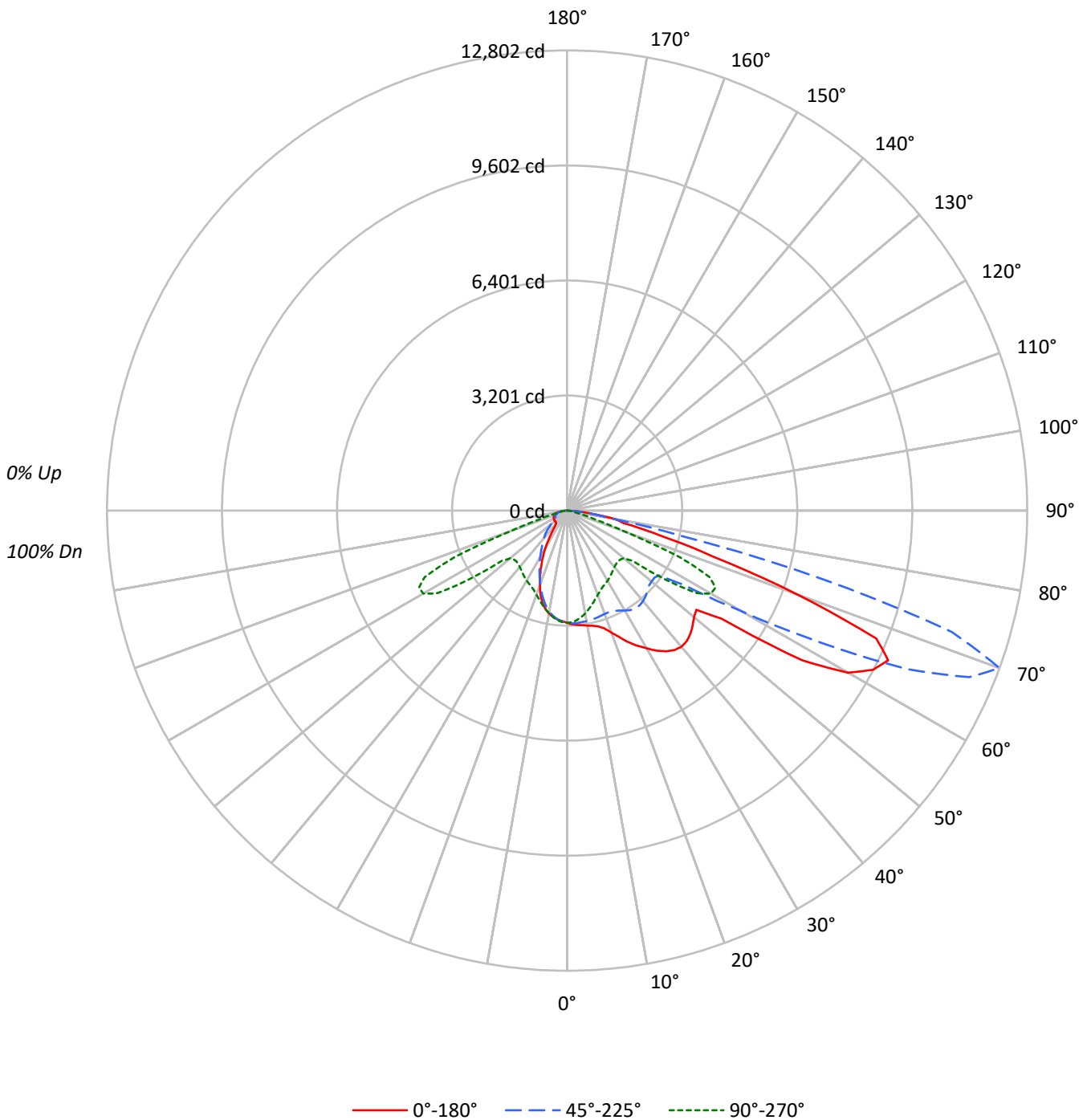
Lumens per Lamp: N/A
Luminaire Lumens: 14632.2 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 156.5
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°	33606	33606	33606
5°	34502	33093	32879
10°	35515	31724	31779
15°	37184	30045	29603
20°	41380	28520	25362
25°	47983	27806	20276
30°	54996	27970	15145
35°	62786	28182	9850
40°	69482	28767	6798
45°	73815	30386	6786
50°	77193	34533	7547
55°	98219	63207	8242
60°	194175	99416	9242
65°	251005	111437	10386
70°	213560	52690	11692
75°	112268	19364	14419
80°	83515	10544	15658
85°	48326	10201	15697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	2.0
10°-20°	798.5	5.5
20°-30°	1182.0	8.1
30°-40°	1493.8	10.2
40°-50°	1689.4	11.5
50°-60°	2404.0	16.4
60°-70°	4477.3	30.6
70°-80°	2052.0	14.0
80°-90°	243.6	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°	2272.2	15.5
0°-40°	3766.0	25.7
0°-60°	7859.4	53.7
0°-90°	14632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14632.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3122	3122	3122	3122	3122	
5°	3193	3140	3063	3038	3043	306
15°	3337	3096	2696	2552	2656	960
25°	4040	3079	2341	1824	1707	1876
35°	4778	3325	2145	1222	750	2987
45°	4849	3158	1996	799	446	3730
55°	5234	3140	3368	406	439	5499
65°	9855	10436	4375	363	408	9087
75°	2700	7337	466	286	347	3319
85°	391	343	83	130	127	492
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°	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1
2.5°	3170.0	3178.3	3168.4	3166.7	3166.7	3165.1	3155.2	3153.5	3140.3	3141.9	3145.2
5°	3193.1	3196.4	3189.8	3188.2	3184.9	3178.3	3170.0	3160.1	3150.2	3140.3	3132.0
7.5°	3216.2	3212.9	3208.0	3208.0	3203.0	3193.1	3176.6	3163.4	3141.9	3130.4	3115.5
10°	3249.3	3244.3	3237.7	3234.4	3226.2	3211.3	3188.2	3170.0	3143.6	3120.5	3095.7
12.5°	3280.6	3279.0	3269.1	3264.1	3250.9	3236.1	3208.0	3179.9	3145.2	3108.9	3075.9
15°	3336.8	3330.2	3320.3	3310.4	3288.9	3269.1	3226.2	3193.1	3143.6	3095.7	3044.5
17.5°	3434.2	3422.6	3412.7	3391.3	3364.8	3330.2	3267.4	3211.3	3143.6	3074.3	3016.5
20°	3612.5	3587.7	3574.5	3546.5	3500.2	3437.5	3340.1	3249.3	3148.6	3059.4	2981.8
22.5°	3813.9	3797.4	3779.3	3761.1	3688.4	3597.6	3465.6	3330.2	3178.3	3052.8	2953.7
25°	4040.1	4018.7	4008.7	3977.4	3909.7	3805.7	3625.7	3437.5	3246.0	3079.2	2953.7
27.5°	4241.5	4234.9	4233.3	4197.0	4132.6	4010.4	3797.4	3571.2	3338.4	3133.7	2978.5
30°	4424.8	4418.2	4414.9	4395.1	4320.8	4175.5	3944.4	3690.1	3439.1	3209.6	3024.7
32.5°	4619.6	4598.2	4588.3	4550.3	4466.1	4296.0	4031.9	3767.7	3518.4	3283.9	3075.9
35°	4778.1	4760.0	4740.2	4685.7	4566.8	4365.4	4069.8	3794.1	3549.8	3325.2	3102.3
37.5°	4893.7	4875.6	4847.5	4778.1	4631.2	4388.5	4068.2	3785.9	3538.2	3318.6	3107.3
40°	4944.9	4926.7	4897.0	4809.5	4642.8	4375.3	4036.8	3747.9	3503.5	3283.9	3087.5
42.5°	4925.1	4911.9	4873.9	4789.7	4606.4	4315.8	3974.1	3676.9	3437.5	3227.8	3042.9
45°	4849.1	4839.2	4802.9	4713.7	4523.9	4220.1	3881.6	3587.7	3358.2	3158.5	2983.4
47.5°	4735.2	4731.9	4695.6	4608.1	4419.9	4124.3	3785.9	3500.2	3279.0	3090.8	2933.9
50°	4609.7	4593.2	4575.1	4494.2	4322.4	4041.8	3716.5	3445.7	3234.4	3066.0	2912.5
52.5°	4530.5	4525.5	4509.0	4436.4	4271.3	3993.9	3685.1	3425.9	3231.1	3061.0	2900.9
55°	5233.8	5245.4	5093.5	4778.1	4500.8	4126.0	3779.3	3526.6	3312.0	3140.3	3023.1
57.5°	7741.8	7690.6	7429.7	6804.0	6097.3	5164.5	4492.5	4084.7	3818.9	3848.6	3908.0
60°	9019.7	9009.8	8961.9	8719.2	8248.6	7538.7	6751.1	5848.0	5560.7	5592.1	5615.2
62.5°	9590.9	9605.8	9642.1	9551.3	9427.5	9221.1	8828.2	8464.9	8080.2	7936.6	7551.9
65°	9855.1	9881.5	9964.1	10015.3	10063.1	10099.5	10254.7	10680.6	10961.3	10436.3	9214.5
67.5°	9308.6	9435.7	9708.2	9974.0	10211.7	10550.2	11075.2	12064.2	12752.7	12107.1	10335.6
70°	6785.8	6959.2	7271.2	8093.4	8971.8	9739.5	10756.6	12262.3	13300.9	12802.2	10612.9
72.5°	4254.8	4302.6	4441.3	4743.5	5395.6	6381.3	8159.5	10418.1	11616.8	11218.9	8970.2
75°	2699.5	2716.0	2711.0	2780.4	2891.0	3105.6	3809.0	6153.5	7958.1	7337.3	4999.4
77.5°	1608.1	1632.9	1642.8	1664.3	1717.1	1793.0	1850.8	2093.5	3336.8	3239.4	1814.5
80°	1347.3	1367.1	1350.6	1345.6	1312.6	1289.5	1317.5	1289.5	1197.0	1152.4	1061.6
82.5°	713.3	711.6	706.6	754.5	851.9	927.9	985.7	972.5	880.0	749.6	635.7
85°	391.3	404.5	404.5	421.0	406.2	407.8	421.0	444.1	411.1	343.4	280.7
87.5°	33.0	51.2	41.3	51.2	69.3	49.5	47.9	47.9	41.3	29.7	26.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1
2.5°	3137.0	3133.7	3127.1	3122.1	3122.1	3113.9	3108.9	3105.6	3104.0	3097.4	3097.4
5°	3127.1	3115.5	3104.0	3095.7	3090.8	3082.5	3069.3	3062.7	3054.4	3047.8	3044.5
7.5°	3105.6	3084.2	3066.0	3052.8	3036.3	3023.1	3006.6	2991.7	2976.8	2970.2	2966.9
10°	3072.6	3044.5	3016.5	2991.7	2968.6	2945.5	2924.0	2902.5	2884.4	2871.2	2858.0
12.5°	3041.2	2998.3	2962.0	2925.7	2889.3	2861.3	2831.6	2800.2	2773.8	2749.0	2742.4
15°	2998.3	2948.8	2902.5	2858.0	2813.4	2767.2	2730.8	2696.2	2653.2	2625.2	2603.7
17.5°	2958.7	2899.2	2843.1	2790.3	2735.8	2687.9	2633.4	2587.2	2544.3	2501.3	2470.0
20°	2915.8	2851.4	2791.9	2732.5	2673.0	2612.0	2549.2	2489.8	2436.9	2385.8	2334.6
22.5°	2877.8	2811.7	2754.0	2689.6	2623.5	2554.2	2481.5	2407.2	2346.1	2280.1	2220.7
25°	2854.7	2782.0	2722.6	2659.8	2587.2	2511.2	2428.7	2341.2	2266.9	2190.9	2119.9
27.5°	2854.7	2760.6	2699.5	2636.7	2562.4	2481.5	2390.7	2295.0	2210.8	2126.6	2039.0
30°	2879.4	2763.9	2681.3	2615.3	2539.3	2451.8	2351.1	2250.4	2157.9	2058.9	1974.7
32.5°	2902.5	2770.5	2668.1	2583.9	2496.4	2410.5	2308.2	2200.8	2098.5	2004.4	1915.2
35°	2917.4	2770.5	2643.3	2536.0	2436.9	2352.7	2252.0	2144.7	2040.7	1948.2	1865.7
37.5°	2919.1	2757.3	2603.7	2481.5	2377.5	2290.0	2194.2	2093.5	1994.5	1908.6	1839.3
40°	2902.5	2730.8	2564.1	2423.7	2314.8	2225.6	2138.1	2047.3	1958.1	1887.1	1827.7
42.5°	2872.8	2702.8	2526.1	2377.5	2263.6	2171.1	2090.2	2012.6	1935.0	1873.9	1824.4
45°	2828.2	2664.8	2491.4	2349.4	2237.2	2139.8	2060.5	1996.1	1930.1	1878.9	1829.4
47.5°	2788.6	2651.6	2503.0	2367.6	2250.4	2149.7	2068.8	2014.3	1963.1	1928.4	1860.7
50°	2780.4	2645.0	2507.9	2382.5	2263.6	2161.2	2090.2	2062.2	2047.3	2025.8	1921.8
52.5°	2757.3	2643.3	2544.3	2474.9	2399.0	2351.1	2276.8	2303.2	2286.7	2210.8	2022.5
55°	3000.0	3033.0	3125.4	3257.5	3379.7	3407.8	3399.5	3368.1	3201.4	2754.0	2265.2
57.5°	4124.3	4310.9	4485.9	4563.5	4553.6	4466.1	4403.3	4276.2	4035.2	3490.3	2744.0
60°	5686.2	5715.9	5623.5	5486.4	5255.3	5062.1	4855.7	4618.0	4268.0	3734.7	3037.9
62.5°	7124.3	6724.7	6313.6	5927.3	5575.6	5268.5	4981.2	4649.4	4193.7	3637.3	3000.0
65°	8139.7	7294.3	6645.5	6090.7	5593.8	5164.5	4806.2	4375.3	3861.8	3359.9	2780.4
67.5°	8663.1	7367.0	6371.4	5598.7	4893.7	4299.3	3822.2	3402.8	3021.4	2801.8	2433.6
70°	8078.6	6252.5	4865.6	3992.2	3148.6	2524.5	1994.5	1674.2	1563.5	1771.6	1842.6
72.5°	6019.7	4069.8	2894.3	2238.8	1715.4	1367.1	1048.4	823.9	670.3	703.3	913.0
75°	2846.4	1756.7	1241.6	944.4	751.2	622.4	508.5	465.6	389.6	323.6	303.8
77.5°	1107.9	807.4	667.0	488.7	346.7	279.0	237.8	229.5	234.4	227.8	224.5
80°	843.7	571.3	358.3	262.5	226.2	199.8	176.7	170.1	173.4	181.6	189.9
82.5°	470.5	293.9	217.9	189.9	170.1	145.3	132.1	122.2	123.8	133.7	151.9
85°	181.6	142.0	130.4	125.5	117.2	94.1	80.9	82.6	94.1	112.3	112.3
87.5°	19.8	19.8	26.4	19.8	19.8	19.8	18.2	21.5	23.1	29.7	34.7
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°	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1
2.5°	3094.1	3094.1	3094.1	3090.8	3092.4	3085.8	3085.8	3080.9	3089.1	3084.2	3082.5
5°	3046.2	3044.5	3037.9	3037.9	3037.9	3037.9	3042.9	3029.7	3039.6	3039.6	3034.6
7.5°	2965.3	2965.3	2947.1	2957.0	2953.7	2958.7	2965.3	2958.7	2968.6	2975.2	2970.2
10°	2853.0	2853.0	2838.2	2849.7	2844.8	2856.3	2867.9	2861.3	2867.9	2877.8	2881.1
12.5°	2729.2	2722.6	2709.4	2714.3	2714.3	2720.9	2725.9	2734.1	2742.4	2755.6	2762.2
15°	2585.5	2575.6	2559.1	2559.1	2549.2	2552.5	2562.4	2565.7	2582.2	2600.4	2621.9
17.5°	2438.6	2413.8	2395.7	2374.2	2357.7	2370.9	2382.5	2390.7	2403.9	2432.0	2446.9
20°	2299.9	2250.4	2215.7	2187.6	2169.5	2177.7	2192.6	2202.5	2214.1	2220.7	2225.6
22.5°	2162.9	2106.7	2058.9	2024.2	1994.5	2002.7	1996.1	1991.2	1999.4	1978.0	1976.3
25°	2044.0	1978.0	1913.6	1872.3	1836.0	1824.4	1789.7	1781.5	1758.4	1740.2	1727.0
27.5°	1958.1	1872.3	1801.3	1753.4	1695.6	1652.7	1608.1	1563.5	1538.8	1509.1	1494.2
30°	1890.5	1799.6	1715.4	1634.5	1558.6	1492.5	1433.1	1375.3	1335.7	1292.8	1264.7
32.5°	1827.7	1743.5	1641.1	1530.5	1428.2	1353.9	1276.3	1210.2	1147.5	1091.3	1050.1
35°	1784.8	1690.7	1560.2	1424.9	1309.3	1221.8	1139.2	1045.1	969.2	896.5	851.9
37.5°	1761.7	1646.1	1485.9	1335.7	1206.9	1107.9	1005.5	896.5	804.1	736.4	668.7
40°	1743.5	1601.5	1419.9	1256.4	1121.1	1002.2	883.3	754.5	652.2	581.2	528.3
42.5°	1723.7	1552.0	1362.1	1193.7	1043.5	904.8	761.1	624.1	526.7	477.2	454.0
45°	1702.2	1509.1	1307.6	1134.3	967.5	799.1	634.0	506.9	449.1	432.6	432.6
47.5°	1697.3	1481.0	1268.0	1076.5	881.7	676.9	516.8	437.5	421.0	424.3	430.9
50°	1717.1	1472.7	1233.3	1008.8	767.7	548.1	437.5	411.1	414.4	424.3	434.2
52.5°	1765.0	1479.3	1197.0	914.7	632.4	452.4	404.5	402.9	412.8	427.6	437.5
55°	1845.9	1479.3	1127.7	774.3	505.2	406.2	392.9	399.6	412.8	426.0	434.2
57.5°	2019.2	1464.5	1005.5	619.1	422.7	389.6	389.6	397.9	409.5	422.7	429.3
60°	2225.6	1444.7	833.8	478.8	381.4	376.4	388.0	397.9	407.8	419.4	426.0
62.5°	2238.8	1393.5	660.4	396.3	359.9	368.2	386.3	399.6	402.9	411.1	419.4
65°	2057.2	1215.2	525.0	355.0	350.0	363.2	381.4	391.3	392.9	396.3	404.5
67.5°	1801.3	990.6	424.3	335.2	340.1	355.0	364.9	373.1	378.1	386.3	388.0
70°	1479.3	795.8	363.2	315.4	320.3	336.8	345.1	353.3	363.2	373.1	368.2
72.5°	1048.4	619.1	318.7	293.9	300.5	315.4	325.3	331.9	340.1	350.0	343.4
75°	445.8	432.6	275.7	265.8	275.7	285.6	295.5	305.4	313.7	318.7	318.7
77.5°	227.8	254.3	237.8	237.8	244.4	254.3	262.5	272.4	277.4	282.3	288.9
80°	193.2	196.5	199.8	206.4	213.0	222.9	231.1	239.4	241.1	242.7	246.0
82.5°	160.2	166.8	170.1	180.0	184.9	188.2	193.2	193.2	196.5	196.5	191.5
85°	115.6	123.8	128.8	130.4	128.8	130.4	132.1	135.4	143.6	143.6	137.0
87.5°	33.0	31.4	39.6	41.3	44.6	51.2	57.8	69.3	72.6	75.9	75.9
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: P152405

CATALOG NUMBER: TLM-F06-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3122.1	3122.1	3122.1	3122.1
2.5°	3080.9	3084.2	3077.6	3079.2
5°	3034.6	3041.2	3033.0	3042.9
7.5°	2975.2	2985.1	2983.4	2981.8
10°	2889.3	2902.5	2902.5	2907.5
12.5°	2780.4	2788.6	2795.2	2798.5
15°	2633.4	2648.3	2656.5	2656.5
17.5°	2456.8	2466.7	2471.6	2465.0
20°	2232.2	2228.9	2230.6	2214.1
22.5°	1973.0	1978.0	1963.1	1966.4
25°	1718.7	1710.5	1717.1	1707.2
27.5°	1472.7	1474.4	1456.2	1464.5
30°	1238.3	1230.0	1206.9	1218.5
32.5°	1012.1	990.6	965.9	951.0
35°	799.1	766.1	754.5	749.6
37.5°	627.4	591.1	579.5	566.3
40°	498.6	485.4	480.5	483.8
42.5°	447.4	447.4	450.7	452.4
45°	434.2	439.2	444.1	445.8
47.5°	435.9	440.8	447.4	449.1
50°	439.2	444.1	449.1	450.7
52.5°	440.8	440.8	444.1	445.8
55°	437.5	435.9	437.5	439.2
57.5°	430.9	427.6	429.3	434.2
60°	427.6	422.7	426.0	429.3
62.5°	419.4	417.7	421.0	422.7
65°	401.2	402.9	407.8	407.8
67.5°	384.7	386.3	388.0	389.6
70°	364.9	366.5	369.8	371.5
72.5°	341.8	348.4	353.3	359.9
75°	323.6	330.2	340.1	346.7
77.5°	292.2	297.2	308.7	317.0
80°	247.7	246.0	247.7	252.6
82.5°	189.9	189.9	188.2	186.6
85°	133.7	132.1	127.1	127.1
87.5°	72.6	71.0	69.3	66.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)