

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: P152402

Luminaire Tested: **TLM-E06-LED-E1-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152402
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-SL4-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

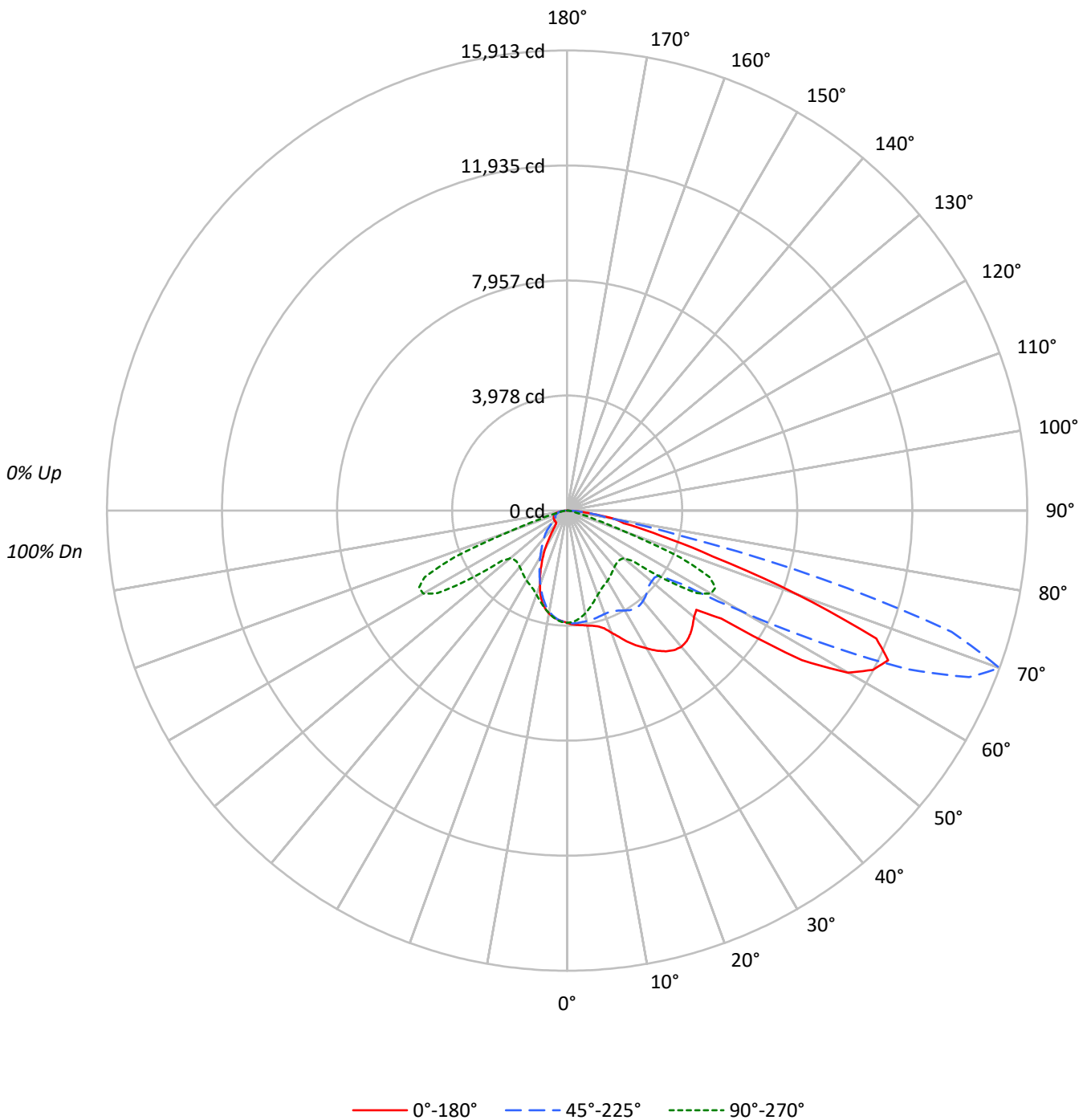
Lumens per Lamp: N/A
Luminaire Lumens: 18187.4 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	41772	41772	41772
5°	42885	41134	40867
10°	44144	39433	39500
15°	46218	37346	36796
20°	51434	35449	31523
25°	59642	34561	25202
30°	68359	34767	18824
35°	78042	35029	12243
40°	86365	35756	8449
45°	91750	37768	8435
50°	95949	42923	9383
55°	122084	78565	10245
60°	241353	123570	11487
65°	311992	138514	12911
70°	265450	65489	14530
75°	139546	24067	17925
80°	103803	13104	19464
85°	60071	12671	19513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	2.0
10°-20°	992.5	5.5
20°-30°	1469.2	8.1
30°-40°	1856.7	10.2
40°-50°	2099.9	11.5
50°-60°	2988.1	16.4
60°-70°	5565.1	30.6
70°-80°	2550.5	14.0
80°-90°	302.8	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°	2824.3	15.5
0°-40°	4681.0	25.7
0°-60°	9769.0	53.7
0°-90°	18187.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18187.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3881	3881	3881	3881	3881	
5°	3969	3903	3807	3776	3782	381
15°	4148	3848	3351	3173	3302	1194
25°	5022	3827	2910	2268	2122	2332
35°	5939	4133	2666	1519	932	3712
45°	6027	3926	2481	993	554	4637
55°	6506	3903	4186	505	546	6835
65°	12250	12972	5438	452	507	11295
75°	3355	9120	579	355	431	4125
85°	486	427	103	162	158	612
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°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3940.2	3950.5	3938.2	3936.1	3936.1	3934.1	3921.8	3919.7	3903.3	3905.4	3909.5
5°	3969.0	3973.1	3964.9	3962.8	3958.7	3950.5	3940.2	3927.9	3915.6	3903.3	3893.0
7.5°	3997.7	3993.6	3987.4	3987.4	3981.3	3969.0	3948.5	3932.0	3905.4	3891.0	3872.5
10°	4038.8	4032.6	4024.4	4020.3	4010.0	3991.6	3962.8	3940.2	3907.4	3878.7	3847.9
12.5°	4077.7	4075.7	4063.4	4057.2	4040.8	4022.3	3987.4	3952.6	3909.5	3864.3	3823.3
15°	4147.5	4139.3	4127.0	4114.7	4088.0	4063.4	4010.0	3969.0	3907.4	3847.9	3784.3
17.5°	4268.6	4254.2	4241.9	4215.2	4182.4	4139.3	4061.3	3991.6	3907.4	3821.2	3749.4
20°	4490.2	4459.5	4443.0	4408.1	4350.7	4272.7	4151.6	4038.8	3913.6	3802.7	3706.3
22.5°	4740.6	4720.1	4697.5	4674.9	4584.6	4471.8	4307.6	4139.3	3950.5	3794.5	3671.4
25°	5021.8	4995.1	4982.8	4943.8	4859.6	4730.3	4506.7	4272.7	4034.6	3827.4	3671.4
27.5°	5272.1	5263.9	5261.9	5216.7	5136.7	4984.8	4720.1	4438.9	4149.6	3895.1	3702.2
30°	5499.9	5491.7	5487.6	5463.0	5370.6	5190.0	4902.7	4586.7	4274.8	3989.5	3759.7
32.5°	5742.1	5715.4	5703.1	5655.9	5551.2	5339.9	5011.5	4683.1	4373.3	4081.8	3823.3
35°	5939.1	5916.5	5891.9	5824.2	5676.4	5426.0	5058.7	4716.0	4412.3	4133.2	3856.1
37.5°	6082.8	6060.2	6025.3	5939.1	5756.5	5454.8	5056.6	4705.7	4397.9	4124.9	3862.3
40°	6146.4	6123.8	6086.9	5978.1	5770.8	5438.4	5017.7	4658.5	4354.8	4081.8	3837.6
42.5°	6121.7	6105.3	6058.1	5953.5	5725.7	5364.5	4939.7	4570.3	4272.7	4012.1	3782.2
45°	6027.3	6015.0	5969.9	5859.1	5623.1	5245.5	4824.7	4459.5	4174.2	3925.9	3708.3
47.5°	5885.7	5881.6	5836.5	5727.7	5493.8	5126.4	4705.7	4350.7	4075.7	3841.7	3646.8
50°	5729.8	5709.3	5686.7	5586.1	5372.7	5023.8	4619.5	4283.0	4020.3	3811.0	3620.1
52.5°	5631.3	5625.1	5604.6	5514.3	5309.1	4964.3	4580.5	4258.3	4016.2	3804.8	3605.7
55°	6505.5	6519.9	6331.1	5939.1	5594.3	5128.5	4697.5	4383.5	4116.7	3903.3	3757.6
57.5°	9622.8	9559.2	9234.9	8457.2	7578.8	6419.3	5584.1	5077.2	4746.8	4783.7	4857.6
60°	11211.2	11198.9	11139.4	10837.7	10252.8	9370.4	8391.5	7268.9	6911.8	6950.8	6979.6
62.5°	11921.3	11939.8	11984.9	11872.0	11718.1	11461.6	10973.2	10521.7	10043.5	9865.0	9386.8
65°	12249.6	12282.5	12385.1	12448.7	12508.2	12553.4	12746.3	13275.8	13624.6	12972.0	11453.4
67.5°	11570.4	11728.4	12067.0	12397.4	12692.9	13113.6	13766.2	14995.5	15851.3	15048.9	12846.8
70°	8434.6	8650.1	9037.9	10059.9	11151.7	12106.0	13370.2	15241.8	16532.6	15912.8	13191.6
72.5°	5288.5	5348.1	5520.4	5896.0	6706.6	7931.8	10142.0	12949.5	14439.4	13944.8	11149.7
75°	3355.4	3375.9	3369.7	3455.9	3593.4	3860.2	4734.5	7648.6	9891.7	9120.0	6214.1
77.5°	1998.9	2029.6	2041.9	2068.6	2134.3	2228.7	2300.5	2602.2	4147.5	4026.4	2255.4
80°	1674.6	1699.2	1678.7	1672.6	1631.5	1602.8	1637.7	1602.8	1487.9	1432.4	1319.6
82.5°	886.6	884.5	878.3	937.9	1058.9	1153.3	1225.2	1208.8	1093.8	931.7	790.1
85°	486.4	502.8	502.8	523.3	504.8	506.9	523.3	552.0	511.0	426.9	348.9
87.5°	41.0	63.6	51.3	63.6	86.2	61.6	59.5	59.5	51.3	36.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3899.2	3895.1	3886.9	3880.7	3880.7	3870.5	3864.3	3860.2	3858.2	3849.9	3849.9
5°	3886.9	3872.5	3858.2	3847.9	3841.7	3831.5	3815.1	3806.9	3796.6	3788.4	3784.3
7.5°	3860.2	3833.5	3811.0	3794.5	3774.0	3757.6	3737.1	3718.6	3700.1	3691.9	3687.8
10°	3819.2	3784.3	3749.4	3718.6	3689.9	3661.1	3634.5	3607.8	3585.2	3568.8	3552.4
12.5°	3780.2	3726.8	3681.7	3636.5	3591.4	3556.5	3519.5	3480.5	3447.7	3416.9	3408.7
15°	3726.8	3665.2	3607.8	3552.4	3497.0	3439.5	3394.4	3351.3	3297.9	3263.0	3236.3
17.5°	3677.6	3603.7	3533.9	3468.2	3400.5	3341.0	3273.3	3215.8	3162.5	3109.1	3070.1
20°	3624.2	3544.2	3470.3	3396.4	3322.5	3246.6	3168.6	3094.7	3029.1	2965.4	2901.8
22.5°	3577.0	3494.9	3423.1	3343.1	3261.0	3174.8	3084.5	2992.1	2916.2	2834.1	2760.2
25°	3548.3	3458.0	3384.1	3306.1	3215.8	3121.4	3018.8	2910.0	2817.7	2723.3	2635.0
27.5°	3548.3	3431.3	3355.4	3277.4	3185.0	3084.5	2971.6	2852.6	2747.9	2643.2	2534.5
30°	3579.1	3435.4	3332.8	3250.7	3156.3	3047.5	2922.3	2797.2	2682.2	2559.1	2454.4
32.5°	3607.8	3443.6	3316.4	3211.7	3102.9	2996.2	2869.0	2735.6	2608.4	2491.4	2380.6
35°	3626.3	3443.6	3285.6	3152.2	3029.1	2924.4	2799.2	2665.8	2536.5	2421.6	2319.0
37.5°	3628.3	3427.2	3236.3	3084.5	2955.2	2846.4	2727.4	2602.2	2479.1	2372.4	2286.2
40°	3607.8	3394.4	3187.1	3012.6	2877.2	2766.4	2657.6	2544.7	2433.9	2345.7	2271.8
42.5°	3570.8	3359.5	3139.9	2955.2	2813.6	2698.7	2598.1	2501.6	2405.2	2329.3	2267.7
45°	3515.4	3312.3	3096.8	2920.3	2780.7	2659.7	2561.2	2481.1	2399.0	2335.4	2273.8
47.5°	3466.2	3295.9	3111.2	2942.9	2797.2	2672.0	2571.4	2503.7	2440.1	2397.0	2312.8
50°	3455.9	3287.6	3117.3	2961.3	2813.6	2686.3	2598.1	2563.2	2544.7	2518.1	2388.8
52.5°	3427.2	3285.6	3162.5	3076.3	2981.9	2922.3	2830.0	2862.8	2842.3	2747.9	2514.0
55°	3728.9	3769.9	3884.8	4049.0	4200.9	4235.8	4225.5	4186.5	3979.2	3423.1	2815.6
57.5°	5126.4	5358.3	5575.9	5672.3	5660.0	5551.2	5473.2	5315.2	5015.6	4338.4	3410.8
60°	7067.8	7104.8	6989.8	6819.5	6532.2	6292.1	6035.6	5740.0	5305.0	4642.1	3776.1
62.5°	8855.3	8358.7	7847.7	7367.4	6930.3	6548.6	6191.5	5779.0	5212.6	4521.0	3728.9
65°	10117.4	9066.7	8260.1	7570.6	6952.9	6419.3	5974.0	5438.4	4800.1	4176.2	3455.9
67.5°	10768.0	9157.0	7919.5	6959.0	6082.8	5344.0	4750.9	4229.6	3755.5	3482.6	3025.0
70°	10041.5	7771.7	6047.9	4962.2	3913.6	3137.8	2479.1	2080.9	1943.4	2202.0	2290.3
72.5°	7482.4	5058.7	3597.5	2782.8	2132.2	1699.2	1303.2	1024.1	833.2	874.2	1134.9
75°	3538.0	2183.6	1543.3	1173.9	933.8	773.7	632.1	578.7	484.3	402.2	377.6
77.5°	1377.0	1003.5	829.1	607.5	431.0	346.8	295.5	285.3	291.4	283.2	279.1
80°	1048.7	710.1	445.3	326.3	281.2	248.3	219.6	211.4	215.5	225.7	236.0
82.5°	584.9	365.3	270.9	236.0	211.4	180.6	164.2	151.9	153.9	166.2	188.8
85°	225.7	176.5	162.1	156.0	145.7	117.0	100.6	102.6	117.0	139.6	139.6
87.5°	24.6	24.6	32.8	24.6	24.6	24.6	22.6	26.7	28.7	36.9	43.1
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°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3845.8	3845.8	3845.8	3841.7	3843.8	3835.6	3835.6	3829.4	3839.7	3833.5	3831.5
5°	3786.3	3784.3	3776.1	3776.1	3776.1	3776.1	3782.2	3765.8	3778.1	3778.1	3772.0
7.5°	3685.8	3685.8	3663.2	3675.5	3671.4	3677.6	3685.8	3677.6	3689.9	3698.1	3691.9
10°	3546.2	3546.2	3527.8	3542.1	3536.0	3550.3	3564.7	3556.5	3564.7	3577.0	3581.1
12.5°	3392.3	3384.1	3367.7	3373.8	3373.8	3382.0	3388.2	3398.5	3408.7	3425.1	3433.3
15°	3213.8	3201.4	3180.9	3180.9	3168.6	3172.7	3185.0	3189.1	3209.7	3232.2	3258.9
17.5°	3031.1	3000.3	2977.8	2951.1	2930.6	2947.0	2961.3	2971.6	2988.0	3022.9	3041.4
20°	2858.7	2797.2	2754.1	2719.2	2696.6	2706.9	2725.3	2737.6	2752.0	2760.2	2766.4
22.5°	2688.4	2618.6	2559.1	2516.0	2479.1	2489.3	2481.1	2475.0	2485.2	2458.5	2456.5
25°	2540.6	2458.5	2378.5	2327.2	2282.1	2267.7	2224.6	2214.3	2185.6	2163.0	2146.6
27.5°	2433.9	2327.2	2239.0	2179.4	2107.6	2054.3	1998.9	1943.4	1912.7	1875.7	1857.3
30°	2349.8	2236.9	2132.2	2031.7	1937.3	1855.2	1781.3	1709.5	1660.2	1606.9	1572.0
32.5°	2271.8	2167.1	2039.9	1902.4	1775.2	1682.8	1586.4	1504.3	1426.3	1356.5	1305.2
35°	2218.4	2101.5	1939.3	1771.1	1627.4	1518.6	1416.0	1299.0	1204.6	1114.4	1058.9
37.5°	2189.7	2046.1	1847.0	1660.2	1500.2	1377.0	1249.8	1114.4	999.4	915.3	831.1
40°	2167.1	1990.6	1764.9	1561.7	1393.5	1245.7	1097.9	937.9	810.6	722.4	656.7
42.5°	2142.5	1929.1	1693.1	1483.7	1297.0	1124.6	946.1	775.7	654.7	593.1	564.4
45°	2115.8	1875.7	1625.4	1409.9	1202.6	993.3	788.0	630.0	558.2	537.7	537.7
47.5°	2109.7	1840.8	1576.1	1338.0	1095.9	841.4	642.3	543.8	523.3	527.4	535.6
50°	2134.3	1830.6	1533.0	1253.9	954.3	681.3	543.8	511.0	515.1	527.4	539.7
52.5°	2193.8	1838.8	1487.9	1136.9	786.0	562.3	502.8	500.7	513.1	531.5	543.8
55°	2294.4	1838.8	1401.7	962.5	628.0	504.8	488.4	496.6	513.1	529.5	539.7
57.5°	2509.9	1820.3	1249.8	769.6	525.4	484.3	484.3	494.6	508.9	525.4	533.6
60°	2766.4	1795.7	1036.4	595.1	474.1	467.9	482.3	494.6	506.9	521.3	529.5
62.5°	2782.8	1732.1	820.9	492.5	447.4	457.6	480.2	496.6	500.7	511.0	521.3
65°	2557.1	1510.4	652.6	441.2	435.1	451.5	474.1	486.4	488.4	492.5	502.8
67.5°	2239.0	1231.3	527.4	416.6	422.8	441.2	453.5	463.8	470.0	480.2	482.3
70°	1838.8	989.2	451.5	392.0	398.1	418.7	428.9	439.2	451.5	463.8	457.6
72.5°	1303.2	769.6	396.1	365.3	373.5	392.0	404.3	412.5	422.8	435.1	426.9
75°	554.1	537.7	342.7	330.4	342.7	355.0	367.3	379.7	389.9	396.1	396.1
77.5°	283.2	316.0	295.5	295.5	303.7	316.0	326.3	338.6	344.8	350.9	359.1
80°	240.1	244.2	248.3	256.5	264.7	277.0	287.3	297.6	299.6	301.7	305.8
82.5°	199.1	207.3	211.4	223.7	229.8	234.0	240.1	240.1	244.2	244.2	238.1
85°	143.7	153.9	160.1	162.1	160.1	162.1	164.2	168.3	178.5	178.5	170.3
87.5°	41.0	39.0	49.3	51.3	55.4	63.6	71.8	86.2	90.3	94.4	94.4
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: P152402

CATALOG NUMBER: TLM-E06-LED-E1-SL4-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3880.7	3880.7	3880.7	3880.7
2.5°	3829.4	3833.5	3825.3	3827.4
5°	3772.0	3780.2	3769.9	3782.2
7.5°	3698.1	3710.4	3708.3	3706.3
10°	3591.4	3607.8	3607.8	3613.9
12.5°	3455.9	3466.2	3474.4	3478.5
15°	3273.3	3291.7	3302.0	3302.0
17.5°	3053.7	3066.0	3072.2	3064.0
20°	2774.6	2770.5	2772.5	2752.0
22.5°	2452.4	2458.5	2440.1	2444.2
25°	2136.4	2126.1	2134.3	2122.0
27.5°	1830.6	1832.6	1810.0	1820.3
30°	1539.2	1528.9	1500.2	1514.5
32.5°	1258.0	1231.3	1200.5	1182.1
35°	993.3	952.2	937.9	931.7
37.5°	779.8	734.7	720.3	703.9
40°	619.8	603.4	597.2	601.3
42.5°	556.1	556.1	560.3	562.3
45°	539.7	545.9	552.0	554.1
47.5°	541.8	547.9	556.1	558.2
50°	545.9	552.0	558.2	560.3
52.5°	547.9	547.9	552.0	554.1
55°	543.8	541.8	543.8	545.9
57.5°	535.6	531.5	533.6	539.7
60°	531.5	525.4	529.5	533.6
62.5°	521.3	519.2	523.3	525.4
65°	498.7	500.7	506.9	506.9
67.5°	478.2	480.2	482.3	484.3
70°	453.5	455.6	459.7	461.7
72.5°	424.8	433.0	439.2	447.4
75°	402.2	410.4	422.8	431.0
77.5°	363.2	369.4	383.8	394.0
80°	307.8	305.8	307.8	314.0
82.5°	236.0	236.0	234.0	231.9
85°	166.2	164.2	158.0	158.0
87.5°	90.3	88.2	86.2	82.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)