

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: P152399

Luminaire Tested: **TLM-E06-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152399
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-SL4-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

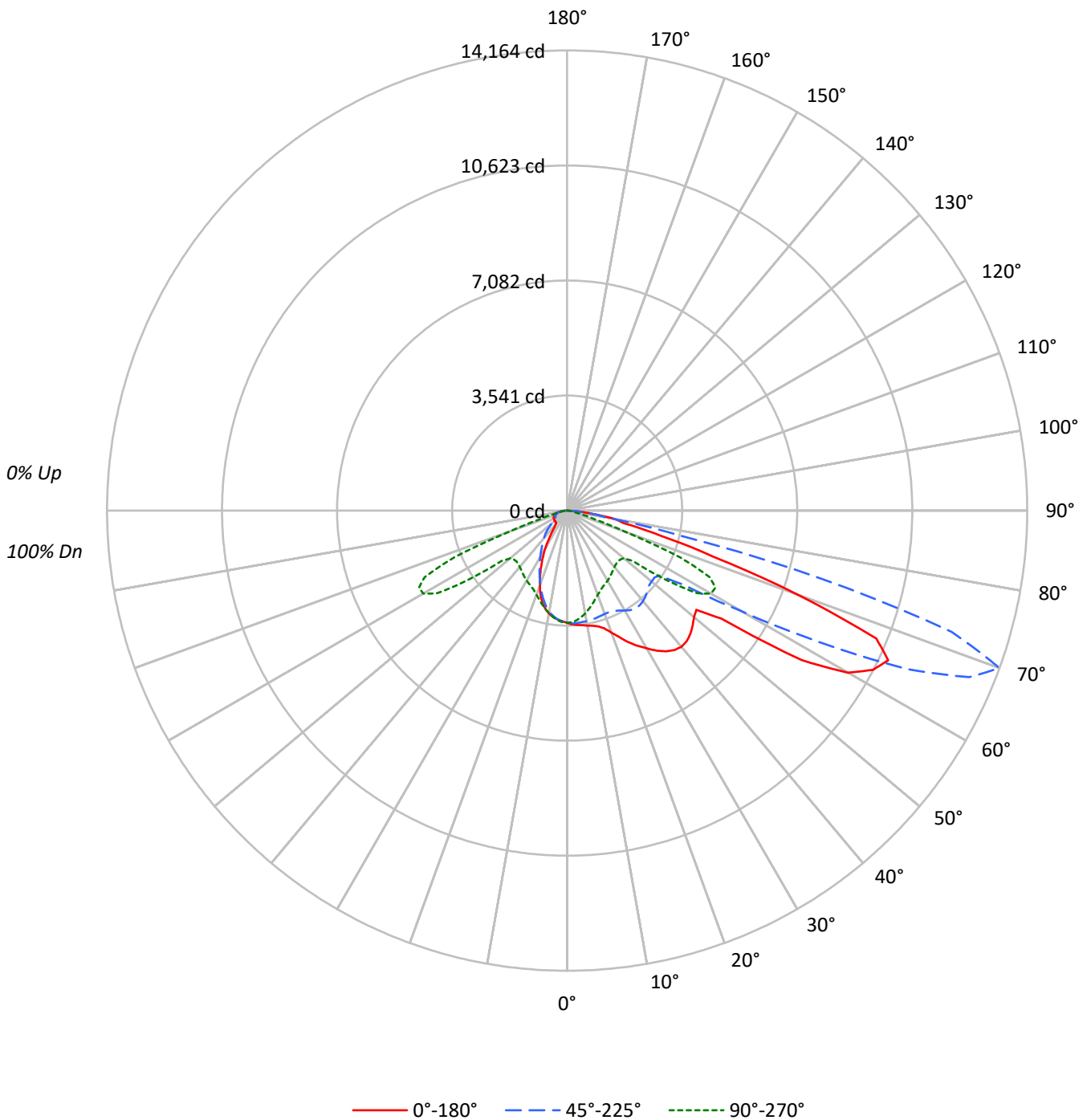
Lumens per Lamp: N/A
Luminaire Lumens: 16188.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	37182	37182	37182
5°	38172	36613	36376
10°	39292	35099	35160
15°	41140	33241	32753
20°	45782	31554	28059
25°	53088	30764	22433
30°	60848	30946	16756
35°	69466	31181	10897
40°	76875	31828	7520
45°	81669	33619	7508
50°	85405	38205	8351
55°	108668	69933	9119
60°	214833	109992	10224
65°	277710	123293	11492
70°	236279	58295	12935
75°	124213	21422	15953
80°	92398	11666	17325
85°	53464	11276	17377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.7	2.0
10°-20°	883.4	5.5
20°-30°	1307.8	8.1
30°-40°	1652.7	10.2
40°-50°	1869.1	11.5
50°-60°	2659.8	16.4
60°-70°	4953.6	30.6
70°-80°	2270.3	14.0
80°-90°	269.5	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°	2513.9	15.5
0°-40°	4166.6	25.7
0°-60°	8695.5	53.7
0°-90°	16188.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16188.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3454	3454	3454	3454	3454	
5°	3533	3474	3388	3361	3367	339
15°	3692	3425	2983	2824	2939	1063
25°	4470	3407	2590	2018	1889	2075
35°	5286	3679	2373	1352	829	3305
45°	5365	3494	2208	884	493	4127
55°	5791	3474	3726	449	486	6084
65°	10904	11547	4841	402	451	10054
75°	2987	8118	515	316	384	3672
85°	433	380	91	144	141	545
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°	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3
2.5°	3507.3	3516.4	3505.4	3503.6	3503.6	3501.8	3490.8	3489.0	3474.4	3476.2	3479.9
5°	3532.8	3536.5	3529.2	3527.4	3523.7	3516.4	3507.3	3496.3	3485.3	3474.4	3465.3
7.5°	3558.4	3554.8	3549.3	3549.3	3543.8	3532.8	3514.6	3500.0	3476.2	3463.4	3447.0
10°	3594.9	3589.5	3582.2	3578.5	3569.4	3552.9	3527.4	3507.3	3478.0	3452.5	3425.1
12.5°	3629.7	3627.8	3616.9	3611.4	3596.8	3580.3	3549.3	3518.2	3479.9	3439.7	3403.1
15°	3691.8	3684.5	3673.5	3662.5	3638.8	3616.9	3569.4	3532.8	3478.0	3425.1	3368.4
17.5°	3799.5	3786.8	3775.8	3752.0	3722.8	3684.5	3615.0	3552.9	3478.0	3401.3	3337.4
20°	3996.8	3969.4	3954.8	3923.8	3872.6	3803.2	3695.4	3594.9	3483.5	3384.9	3299.0
22.5°	4219.7	4201.4	4181.3	4161.2	4080.8	3980.4	3834.2	3684.5	3516.4	3377.6	3268.0
25°	4469.9	4446.2	4435.2	4400.5	4325.6	4210.5	4011.4	3803.2	3591.3	3406.8	3268.0
27.5°	4692.8	4685.5	4683.7	4643.5	4572.2	4437.1	4201.4	3951.2	3693.6	3467.1	3295.4
30°	4895.6	4888.3	4884.6	4862.7	4780.5	4619.7	4364.0	4082.7	3805.0	3551.1	3346.5
32.5°	5111.1	5087.4	5076.4	5034.4	4941.2	4753.1	4460.8	4168.5	3892.7	3633.3	3403.1
35°	5286.5	5266.4	5244.5	5184.2	5052.7	4829.8	4502.8	4197.8	3927.4	3679.0	3432.4
37.5°	5414.3	5394.2	5363.2	5286.5	5123.9	4855.4	4501.0	4188.6	3914.6	3671.7	3437.9
40°	5471.0	5450.9	5418.0	5321.2	5136.7	4840.8	4466.3	4146.6	3876.3	3633.3	3415.9
42.5°	5449.0	5434.4	5392.4	5299.3	5096.5	4775.0	4396.9	4068.1	3803.2	3571.2	3366.6
45°	5365.0	5354.1	5313.9	5215.2	5005.2	4669.0	4294.6	3969.4	3715.5	3494.5	3300.8
47.5°	5239.0	5235.3	5195.1	5098.3	4890.1	4563.1	4188.6	3872.6	3627.8	3419.6	3246.0
50°	5100.1	5081.9	5061.8	4972.3	4782.3	4471.8	4111.9	3812.3	3578.5	3392.2	3222.3
52.5°	5012.5	5007.0	4988.7	4908.3	4725.7	4418.8	4077.2	3790.4	3574.9	3386.7	3209.5
55°	5790.6	5803.4	5635.4	5286.5	4979.6	4564.9	4181.3	3901.8	3664.4	3474.4	3344.7
57.5°	8565.4	8508.8	8220.2	7527.8	6746.0	5713.9	4970.5	4519.3	4225.2	4258.0	4323.8
60°	9979.3	9968.3	9915.3	9646.8	9126.2	8340.7	7469.4	6470.2	6152.3	6187.0	6212.6
62.5°	10611.3	10627.7	10667.9	10567.5	10430.5	10202.1	9767.4	9365.5	8939.9	8781.0	8355.3
65°	10903.6	10932.8	11024.1	11080.8	11133.7	11173.9	11345.6	11816.9	12127.5	11546.6	10194.8
67.5°	10298.9	10439.6	10741.0	11035.1	11298.1	11672.6	12253.5	13347.7	14109.4	13395.2	11435.1
70°	7507.7	7699.5	8044.8	8954.5	9926.3	10775.7	11901.0	13566.9	14715.9	14164.2	11742.0
72.5°	4707.4	4760.4	4913.8	5248.1	5969.7	7060.2	9027.6	11526.5	12852.7	12412.4	9924.5
75°	2986.7	3004.9	2999.4	3076.2	3198.6	3436.0	4214.2	6808.1	8804.7	8117.9	5531.2
77.5°	1779.2	1806.6	1817.6	1841.3	1899.8	1983.8	2047.7	2316.3	3691.8	3584.0	2007.5
80°	1490.6	1512.5	1494.2	1488.8	1452.2	1426.7	1457.7	1426.7	1324.4	1275.0	1174.6
82.5°	789.1	787.3	781.8	834.8	942.6	1026.6	1090.5	1075.9	973.6	829.3	703.3
85°	432.9	447.5	447.5	465.8	449.4	451.2	465.8	491.4	454.8	380.0	310.5
87.5°	36.5	56.6	45.7	56.6	76.7	54.8	53.0	53.0	45.7	32.9	29.2
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°	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3
2.5°	3470.7	3467.1	3459.8	3454.3	3454.3	3445.2	3439.7	3436.0	3434.2	3426.9	3426.9
5°	3459.8	3447.0	3434.2	3425.1	3419.6	3410.5	3395.8	3388.5	3379.4	3372.1	3368.4
7.5°	3436.0	3412.3	3392.2	3377.6	3359.3	3344.7	3326.4	3310.0	3293.5	3286.2	3282.6
10°	3399.5	3368.4	3337.4	3310.0	3284.4	3258.8	3235.1	3211.3	3191.2	3176.6	3162.0
12.5°	3364.8	3317.3	3277.1	3236.9	3196.7	3165.7	3132.8	3098.1	3068.9	3041.5	3034.1
15°	3317.3	3262.5	3211.3	3162.0	3112.7	3061.6	3021.4	2983.0	2935.5	2904.5	2880.7
17.5°	3273.4	3207.7	3145.6	3087.1	3026.8	2973.9	2913.6	2862.4	2814.9	2767.5	2732.7
20°	3226.0	3154.7	3089.0	3023.2	2957.4	2889.8	2820.4	2754.7	2696.2	2639.6	2583.0
22.5°	3183.9	3110.9	3046.9	2975.7	2902.6	2825.9	2745.5	2663.3	2595.7	2522.7	2456.9
25°	3158.4	3078.0	3012.2	2942.8	2862.4	2778.4	2687.1	2590.3	2508.1	2424.0	2345.5
27.5°	3158.4	3054.2	2986.7	2917.2	2835.0	2745.5	2645.1	2539.1	2446.0	2352.8	2256.0
30°	3185.8	3057.9	2966.6	2893.5	2809.5	2712.7	2601.2	2489.8	2387.5	2277.9	2184.7
32.5°	3211.3	3065.2	2951.9	2858.8	2762.0	2667.0	2553.7	2435.0	2321.7	2217.6	2119.0
35°	3227.8	3065.2	2924.5	2805.8	2696.2	2603.0	2491.6	2372.9	2257.8	2155.5	2064.2
37.5°	3229.6	3050.6	2880.7	2745.5	2630.4	2533.6	2427.7	2316.3	2206.7	2111.7	2034.9
40°	3211.3	3021.4	2836.9	2681.6	2561.0	2462.4	2365.6	2265.1	2166.5	2087.9	2022.2
42.5°	3178.5	2990.3	2794.9	2630.4	2504.4	2402.1	2312.6	2226.7	2140.9	2073.3	2018.5
45°	3129.1	2948.3	2756.5	2599.4	2475.2	2367.4	2279.7	2208.5	2135.4	2078.8	2024.0
47.5°	3085.3	2933.7	2769.3	2619.5	2489.8	2378.4	2288.9	2228.6	2171.9	2133.6	2058.7
50°	3076.2	2926.4	2774.8	2635.9	2504.4	2391.2	2312.6	2281.5	2265.1	2241.4	2126.3
52.5°	3050.6	2924.5	2814.9	2738.2	2654.2	2601.2	2519.0	2548.2	2530.0	2446.0	2237.7
55°	3319.1	3355.6	3457.9	3604.1	3739.3	3770.3	3761.2	3726.5	3542.0	3046.9	2506.2
57.5°	4563.1	4769.5	4963.1	5049.0	5038.0	4941.2	4871.8	4731.2	4464.5	3861.6	3036.0
60°	6291.2	6324.0	6221.7	6070.1	5814.4	5600.7	5372.3	5109.3	4722.0	4132.0	3361.1
62.5°	7882.2	7440.2	6985.3	6557.9	6168.8	5829.0	5511.2	5144.0	4639.8	4024.2	3319.1
65°	9005.6	8070.4	7352.5	6738.7	6188.9	5713.9	5317.5	4840.8	4272.7	3717.3	3076.2
67.5°	9584.7	8150.7	7049.2	6194.3	5414.3	4756.7	4228.8	3764.8	3342.9	3099.9	2692.6
70°	8938.0	6917.7	5383.3	4417.0	3483.5	2793.0	2206.7	1852.3	1729.9	1960.0	2038.6
72.5°	6660.2	4502.8	3202.2	2477.0	1897.9	1512.5	1160.0	911.5	741.6	778.2	1010.2
75°	3149.2	1943.6	1373.7	1044.9	831.1	688.7	562.6	515.1	431.1	358.0	336.1
77.5°	1225.7	893.3	738.0	540.7	383.6	308.7	263.0	253.9	259.4	252.1	248.4
80°	933.4	632.0	396.4	290.4	250.3	221.0	195.5	188.2	191.8	200.9	210.1
82.5°	520.6	325.2	241.1	210.1	188.2	160.7	146.1	135.2	137.0	148.0	168.1
85°	200.9	157.1	144.3	138.8	129.7	104.1	89.5	91.3	104.1	124.2	124.2
87.5°	21.9	21.9	29.2	21.9	21.9	21.9	20.1	23.7	25.6	32.9	38.4
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°	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3	3454.3
2.5°	3423.2	3423.2	3423.2	3419.6	3421.4	3414.1	3414.1	3408.6	3417.8	3412.3	3410.5
5°	3370.3	3368.4	3361.1	3361.1	3361.1	3361.1	3366.6	3352.0	3363.0	3363.0	3357.5
7.5°	3280.8	3280.8	3260.7	3271.6	3268.0	3273.4	3280.8	3273.4	3284.4	3291.7	3286.2
10°	3156.5	3156.5	3140.1	3152.9	3147.4	3160.2	3173.0	3165.7	3173.0	3183.9	3187.6
12.5°	3019.5	3012.2	2997.6	3003.1	3003.1	3010.4	3015.9	3025.0	3034.1	3048.8	3056.1
15°	2860.6	2849.7	2831.4	2831.4	2820.4	2824.1	2835.0	2838.7	2857.0	2877.1	2900.8
17.5°	2698.0	2670.6	2650.5	2626.8	2608.5	2623.1	2635.9	2645.1	2659.7	2690.7	2707.2
20°	2544.6	2489.8	2451.4	2420.4	2400.3	2409.4	2425.9	2436.8	2449.6	2456.9	2462.4
22.5°	2393.0	2330.9	2277.9	2239.5	2206.7	2215.8	2208.5	2203.0	2212.1	2188.4	2186.6
25°	2261.5	2188.4	2117.1	2071.5	2031.3	2018.5	1980.1	1971.0	1945.4	1925.3	1910.7
27.5°	2166.5	2071.5	1992.9	1940.0	1876.0	1828.5	1779.2	1729.9	1702.5	1669.6	1653.2
30°	2091.6	1991.1	1897.9	1808.4	1724.4	1651.3	1585.6	1521.6	1477.8	1430.3	1399.3
32.5°	2022.2	1929.0	1815.7	1693.4	1580.1	1497.9	1412.0	1339.0	1269.6	1207.4	1161.8
35°	1974.7	1870.5	1726.2	1576.4	1448.6	1351.8	1260.4	1156.3	1072.3	991.9	942.6
37.5°	1949.1	1821.2	1644.0	1477.8	1335.3	1225.7	1112.5	991.9	889.6	814.7	739.8
40°	1929.0	1771.9	1571.0	1390.1	1240.3	1108.8	977.3	834.8	721.5	643.0	584.5
42.5°	1907.1	1717.1	1507.0	1320.7	1154.5	1001.0	842.1	690.5	582.7	527.9	502.3
45°	1883.3	1669.6	1446.7	1254.9	1070.4	884.1	701.5	560.8	496.9	478.6	478.6
47.5°	1877.8	1638.6	1402.9	1191.0	975.5	748.9	571.8	484.1	465.8	469.5	476.8
50°	1899.8	1629.4	1364.5	1116.1	849.4	606.5	484.1	454.8	458.5	469.5	480.4
52.5°	1952.7	1636.7	1324.4	1012.0	699.6	500.5	447.5	445.7	456.7	473.1	484.1
55°	2042.3	1636.7	1247.6	856.7	559.0	449.4	434.8	442.1	456.7	471.3	480.4
57.5°	2234.1	1620.3	1112.5	685.0	467.6	431.1	431.1	440.2	453.0	467.6	474.9
60°	2462.4	1598.4	922.5	529.7	422.0	416.5	429.3	440.2	451.2	464.0	471.3
62.5°	2477.0	1541.7	730.7	438.4	398.2	407.4	427.4	442.1	445.7	454.8	464.0
65°	2276.1	1344.5	580.9	392.7	387.3	401.9	422.0	432.9	434.8	438.4	447.5
67.5°	1992.9	1096.0	469.5	370.8	376.3	392.7	403.7	412.8	418.3	427.4	429.3
70°	1636.7	880.5	401.9	348.9	354.4	372.6	381.8	390.9	401.9	412.8	407.4
72.5°	1160.0	685.0	352.6	325.2	332.5	348.9	359.9	367.2	376.3	387.3	380.0
75°	493.2	478.6	305.1	294.1	305.1	316.0	327.0	337.9	347.1	352.6	352.6
77.5°	252.1	281.3	263.0	263.0	270.4	281.3	290.4	301.4	306.9	312.4	319.7
80°	213.7	217.4	221.0	228.3	235.6	246.6	255.7	264.9	266.7	268.5	272.2
82.5°	177.2	184.5	188.2	199.1	204.6	208.2	213.7	213.7	217.4	217.4	211.9
85°	127.9	137.0	142.5	144.3	142.5	144.3	146.1	149.8	158.9	158.9	151.6
87.5°	36.5	34.7	43.8	45.7	49.3	56.6	63.9	76.7	80.4	84.0	84.0
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: P152399

CATALOG NUMBER: TLM-E06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3454.3	3454.3	3454.3	3454.3
2.5°	3408.6	3412.3	3405.0	3406.8
5°	3357.5	3364.8	3355.6	3366.6
7.5°	3291.7	3302.7	3300.8	3299.0
10°	3196.7	3211.3	3211.3	3216.8
12.5°	3076.2	3085.3	3092.6	3096.3
15°	2913.6	2930.0	2939.2	2939.2
17.5°	2718.1	2729.1	2734.6	2727.3
20°	2469.7	2466.0	2467.9	2449.6
22.5°	2182.9	2188.4	2171.9	2175.6
25°	1901.6	1892.5	1899.8	1888.8
27.5°	1629.4	1631.2	1611.2	1620.3
30°	1370.0	1360.9	1335.3	1348.1
32.5°	1119.8	1096.0	1068.6	1052.2
35°	884.1	847.6	834.8	829.3
37.5°	694.1	654.0	641.2	626.6
40°	551.7	537.0	531.6	535.2
42.5°	495.0	495.0	498.7	500.5
45°	480.4	485.9	491.4	493.2
47.5°	482.2	487.7	495.0	496.9
50°	485.9	491.4	496.9	498.7
52.5°	487.7	487.7	491.4	493.2
55°	484.1	482.2	484.1	485.9
57.5°	476.8	473.1	474.9	480.4
60°	473.1	467.6	471.3	474.9
62.5°	464.0	462.2	465.8	467.6
65°	443.9	445.7	451.2	451.2
67.5°	425.6	427.4	429.3	431.1
70°	403.7	405.5	409.2	411.0
72.5°	378.1	385.4	390.9	398.2
75°	358.0	365.3	376.3	383.6
77.5°	323.3	328.8	341.6	350.7
80°	274.0	272.2	274.0	279.5
82.5°	210.1	210.1	208.2	206.4
85°	148.0	146.1	140.7	140.7
87.5°	80.4	78.5	76.7	73.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)