

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: P156659

Luminaire Tested: **TLM-E06-LED-E1-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156659
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
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-T4-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16561.1 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 2.02 / 2.64
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

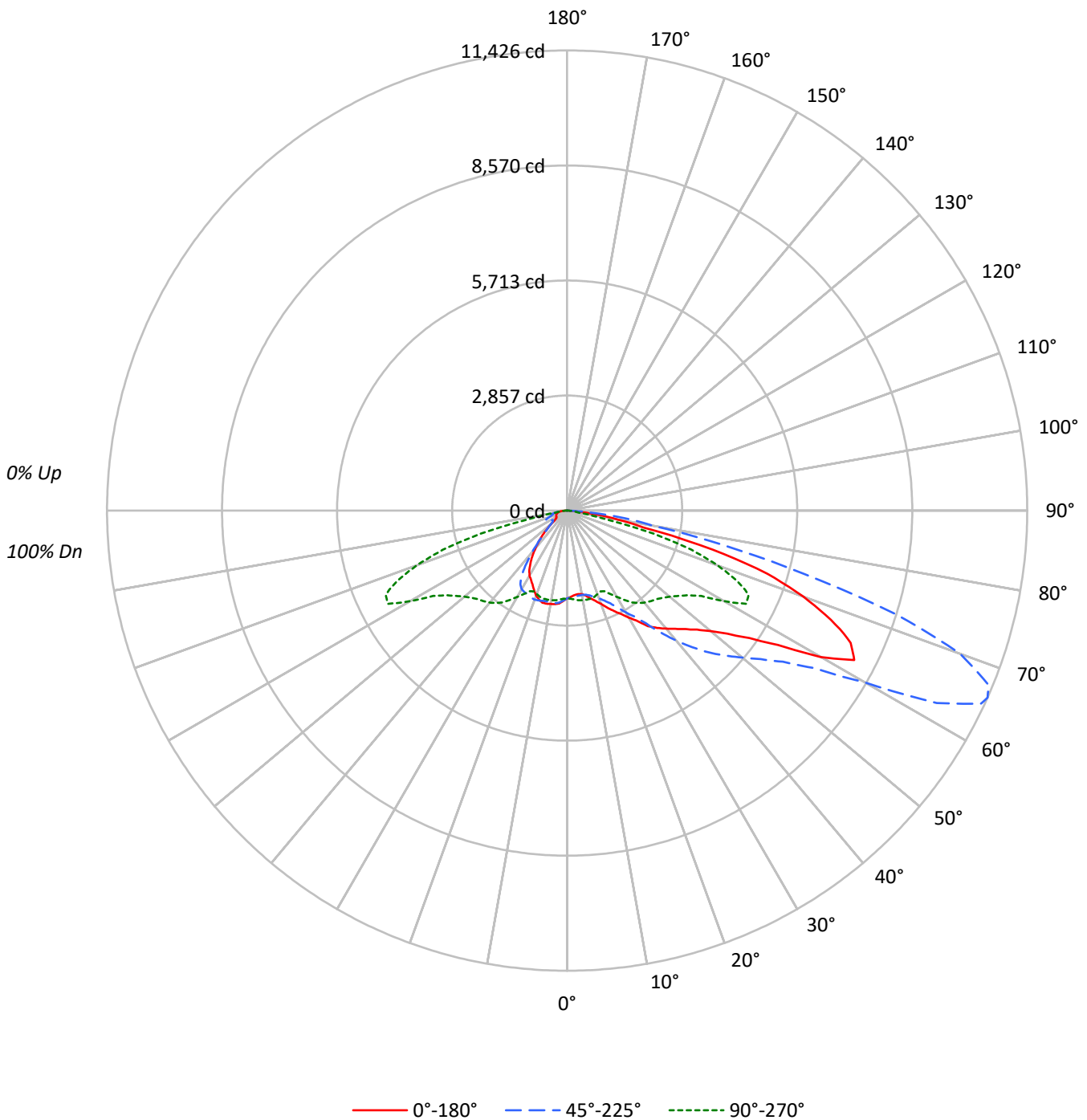
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	99	93	88	102	96	91	87	92	88	84	88	84	81	84	81	79	76					76			
2	92	81	72	65	89	79	71	64	76	69	62	72	66	61	69	64	59	57					57			
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43					43			
4	73	58	47	39	70	57	46	38	54	45	38	51	43	37	49	42	36	34					34			
5	66	50	39	31	64	49	39	31	47	38	31	45	36	30	42	35	30	27					27			
6	60	44	34	26	58	43	33	26	41	32	25	39	31	25	38	30	25	22					22			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	26	19	49	35	25	19	33	25	19	32	24	18	31	23	18	16					16			
9	47	32	23	16	46	31	23	16	30	22	16	29	22	16	28	21	16	14					14			
10	44	29	21	15	43	29	20	15	28	20	14	27	19	14	26	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23497	23497	23497
5°	22738	24001	25028
10°	23001	24718	25736
15°	25201	25221	26401
20°	28247	25277	25736
25°	32694	26272	24104
30°	38144	30765	23182
35°	46015	36533	20859
40°	53773	41940	17223
45°	63373	47467	13097
50°	77911	55673	8381
55°	103629	68698	6274
60°	156473	96817	6607
65°	197873	126548	7631
70°	196269	125040	9083
75°	155662	92605	11167
80°	78922	19476	13928
85°	11510	16018	17821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	1.3
10°-20°	643.6	3.9
20°-30°	1108.5	6.7
30°-40°	1677.2	10.1
40°-50°	2173.8	13.1
50°-60°	2997.0	18.1
60°-70°	4656.3	28.1
70°-80°	2707.7	16.3
80°-90°	385.0	2.3
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°	1964.1	11.9
0°-40°	3641.2	22.0
0°-60°	8812.0	53.2
0°-90°	16561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16561.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2183	2183	2183	2183	2183	
5°	2104	2135	2221	2294	2316	201
15°	2262	2183	2263	2322	2369	648
25°	2753	2545	2212	2313	2030	1283
35°	3502	3421	2780	1962	1587	2188
45°	4163	4983	3118	822	860	3254
55°	5522	6541	3661	424	334	5115
65°	7769	11342	4969	599	300	7353
75°	3743	6098	2227	376	268	3855
85°	93	636	130	153	144	403
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9
2.5°	2142.7	2150.0	2144.5	2146.4	2146.4	2148.2	2148.2	2150.0	2148.2	2153.7	2157.3
5°	2104.4	2108.0	2106.2	2109.8	2113.5	2120.8	2119.0	2128.1	2129.9	2135.4	2144.5
7.5°	2089.7	2086.1	2087.9	2093.4	2097.1	2100.7	2104.4	2111.7	2117.1	2129.9	2137.2
10°	2104.4	2102.5	2104.4	2108.0	2108.0	2109.8	2106.2	2113.5	2117.1	2128.1	2135.4
12.5°	2164.6	2164.6	2161.0	2161.0	2157.3	2153.7	2144.5	2139.1	2137.2	2139.1	2142.7
15°	2261.5	2257.8	2250.5	2245.0	2237.7	2224.9	2212.1	2201.2	2193.9	2182.9	2179.3
17.5°	2356.4	2351.0	2343.7	2336.4	2327.2	2314.4	2294.3	2281.5	2261.5	2248.7	2241.4
20°	2466.0	2455.1	2446.0	2436.8	2418.6	2414.9	2394.8	2372.9	2349.1	2319.9	2316.3
22.5°	2608.5	2590.3	2579.3	2573.8	2555.6	2550.1	2517.2	2486.1	2456.9	2418.6	2409.4
25°	2752.8	2734.6	2729.1	2721.8	2709.0	2701.7	2670.6	2635.9	2597.6	2544.6	2533.6
27.5°	2893.5	2895.3	2880.7	2886.2	2882.5	2869.7	2838.7	2804.0	2774.8	2712.7	2699.9
30°	3068.9	3057.9	3050.6	3061.6	3048.8	3050.6	3023.2	3004.9	2957.4	2920.9	2895.3
32.5°	3251.5	3249.7	3260.7	3268.0	3266.1	3262.5	3240.6	3222.3	3180.3	3127.3	3116.4
35°	3501.8	3512.7	3521.9	3554.8	3554.8	3578.5	3556.6	3534.7	3485.3	3421.4	3399.5
37.5°	3671.7	3675.3	3711.9	3755.7	3810.5	3861.6	3876.3	3881.7	3861.6	3814.2	3781.3
40°	3826.9	3834.2	3892.7	3960.3	4040.7	4141.1	4201.4	4228.8	4234.3	4212.4	4141.1
42.5°	3982.2	3993.2	4053.4	4152.1	4263.5	4391.4	4497.3	4564.9	4603.3	4603.3	4561.3
45°	4163.1	4177.7	4243.4	4351.2	4480.9	4641.6	4787.8	4917.5	4979.6	4983.2	4943.1
47.5°	4376.8	4389.6	4466.3	4575.9	4709.2	4871.8	5056.3	5204.3	5319.4	5326.7	5293.8
50°	4652.6	4670.9	4734.8	4833.4	4970.5	5134.9	5319.4	5525.8	5646.3	5675.6	5640.9
52.5°	5017.9	5021.6	5074.6	5165.9	5299.3	5456.4	5651.8	5876.5	6035.4	6059.2	6002.5
55°	5522.1	5516.6	5551.3	5650.0	5750.5	5872.8	6075.6	6327.7	6504.9	6541.4	6483.0
57.5°	6207.1	6201.6	6230.9	6254.6	6442.8	6561.5	6760.6	7001.7	7173.5	7279.4	7178.9
60°	7268.4	7263.0	7310.5	7449.3	7589.9	7763.5	7957.1	8245.7	8486.9	8517.9	8419.3
62.5°	8037.5	8064.9	8169.0	8331.6	8616.5	8956.3	9310.7	9690.6	10185.7	10342.8	10295.3
65°	7769.0	7823.8	7968.1	8214.7	8594.6	9064.1	9619.4	10308.1	10971.2	11342.0	11331.0
66°	7527.8	7588.1	7765.3	8002.8	8404.6	8918.0	9524.4	10275.2	11016.8	11426.0	11451.6
67.5°	7089.4	7157.0	7330.5	7611.9	8002.8	8549.0	9201.1	10017.6	10856.1	11332.9	11400.4
70°	6236.4	6313.1	6439.1	6671.1	7056.5	7544.3	8231.1	8961.8	9840.4	10386.6	10468.8
72.5°	5213.4	5281.0	5421.6	5611.6	5927.6	6234.5	6773.4	7312.3	7940.7	8563.6	8503.3
75°	3742.9	3772.1	3856.2	4062.6	4232.5	4508.3	4941.2	5383.3	5812.6	6097.5	6137.7
77.5°	1945.4	2022.2	2140.9	2369.2	2553.7	2802.2	3083.5	3415.9	3730.1	3991.3	3920.1
80°	1273.2	1306.1	1412.0	1528.9	1664.1	1823.0	2011.2	2135.4	2175.6	2159.2	2175.6
82.5°	734.3	794.6	935.3	1024.8	1125.2	1180.0	1329.8	1472.3	1552.7	1452.2	1415.7
85°	93.2	120.6	380.0	478.6	548.0	630.2	675.9	761.7	710.6	635.7	774.5
87.5°	20.1	18.3	25.6	54.8	56.6	47.5	89.5	95.0	58.5	29.2	36.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9
2.5°	2161.0	2162.8	2166.5	2171.9	2175.6	2179.3	2182.9	2188.4	2192.0	2195.7	2203.0
5°	2151.9	2159.2	2166.5	2173.8	2182.9	2197.5	2206.7	2214.0	2221.3	2235.9	2241.4
7.5°	2146.4	2159.2	2170.1	2182.9	2197.5	2210.3	2226.7	2235.9	2246.8	2256.0	2266.9
10°	2142.7	2161.0	2171.9	2190.2	2206.7	2219.4	2237.7	2248.7	2261.5	2272.4	2277.9
12.5°	2150.0	2159.2	2170.1	2188.4	2208.5	2226.7	2246.8	2256.0	2266.9	2276.1	2277.9
15°	2181.1	2181.1	2182.9	2197.5	2217.6	2232.2	2248.7	2257.8	2263.3	2268.8	2268.8
17.5°	2237.7	2224.9	2215.8	2217.6	2230.4	2239.5	2248.7	2248.7	2245.0	2243.2	2239.5
20°	2303.5	2287.0	2268.8	2256.0	2252.3	2245.0	2239.5	2221.3	2206.7	2193.9	2184.7
22.5°	2398.5	2372.9	2347.3	2323.6	2301.6	2274.2	2243.2	2206.7	2171.9	2148.2	2133.6
25°	2515.4	2495.3	2464.2	2427.7	2400.3	2349.1	2308.9	2256.0	2212.1	2181.1	2155.5
27.5°	2681.6	2657.8	2628.6	2595.7	2555.6	2498.9	2449.6	2387.5	2334.5	2288.9	2256.0
30°	2888.0	2857.0	2835.0	2794.9	2767.5	2703.5	2654.2	2577.5	2475.2	2402.1	2356.4
32.5°	3099.9	3065.2	3046.9	3015.9	2984.8	2946.5	2871.6	2752.8	2621.3	2502.6	2424.0
35°	3383.0	3346.5	3313.6	3286.2	3240.6	3169.3	3103.6	2961.1	2780.2	2614.0	2482.5
37.5°	3739.3	3679.0	3596.8	3527.4	3447.0	3344.7	3244.2	3098.1	2891.7	2676.1	2500.8
40°	4119.2	4013.3	3896.4	3766.7	3627.8	3479.9	3364.8	3216.8	2984.8	2729.1	2488.0
42.5°	4515.6	4347.5	4185.0	4002.3	3808.7	3633.3	3483.5	3320.9	3054.2	2743.7	2436.8
45°	4908.3	4720.2	4473.6	4234.3	3989.5	3772.1	3604.1	3421.4	3118.2	2749.2	2369.2
47.5°	5233.5	5039.9	4758.6	4459.0	4168.5	3921.9	3724.6	3527.4	3204.0	2787.5	2352.8
50°	5576.9	5341.3	5028.9	4674.5	4345.7	4069.9	3859.8	3655.2	3324.6	2886.2	2405.8
52.5°	5951.4	5681.0	5315.7	4919.3	4559.4	4250.7	4022.4	3812.3	3478.0	3025.0	2506.2
55°	6408.1	6077.4	5681.0	5233.5	4848.1	4506.5	4254.4	4006.0	3660.7	3189.4	2632.3
57.5°	7105.9	6700.3	6254.6	5745.0	5317.5	4913.8	4612.4	4325.6	3943.8	3434.2	2804.0
60°	8368.1	7935.2	7356.1	6738.7	6236.4	5765.1	5323.0	4966.8	4497.3	3916.4	3183.9
62.5°	10176.5	9601.1	8828.4	7964.4	7306.8	6627.3	6128.6	5598.8	5016.1	4389.6	3631.5
65°	11181.2	10483.4	9449.5	8446.7	7600.9	6862.9	6229.0	5615.3	4968.6	4369.5	3735.6
66°	11305.5	10578.4	9504.3	8448.5	7560.7	6802.6	6135.9	5500.2	4838.9	4267.2	3691.8
67.5°	11254.3	10510.8	9403.9	8289.6	7387.2	6572.5	5883.8	5224.4	4564.9	4031.5	3545.6
70°	10415.8	9710.7	8623.9	7544.3	6687.6	5883.8	5226.2	4577.7	3973.1	3516.4	3158.4
72.5°	8649.4	8046.6	7102.2	6254.6	5582.4	4919.3	4362.2	3742.9	3231.4	2893.5	2681.6
75°	6243.7	5878.3	5017.9	4532.0	3942.0	3501.8	2961.1	2593.9	2226.7	2062.3	2025.8
77.5°	3943.8	3452.5	2906.3	2393.0	1967.4	1631.2	1269.6	1077.8	898.7	880.5	1063.1
80°	1996.6	1797.5	1384.6	1103.3	928.0	750.8	593.7	449.4	314.2	378.1	453.0
82.5°	1307.9	1090.5	854.9	703.3	611.9	507.8	394.6	274.0	200.9	226.5	310.5
85°	706.9	602.8	485.9	383.6	310.5	277.7	186.3	131.5	129.7	138.8	177.2
87.5°	51.1	51.1	40.2	36.5	43.8	36.5	32.9	32.9	31.1	32.9	43.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9	2182.9
2.5°	2206.7	2212.1	2214.0	2223.1	2228.6	2232.2	2235.9	2235.9	2237.7	2243.2	2245.0
5°	2248.7	2257.8	2268.8	2276.1	2279.7	2290.7	2294.3	2294.3	2298.0	2305.3	2310.8
7.5°	2274.2	2287.0	2298.0	2301.6	2308.9	2312.6	2318.1	2321.7	2321.7	2329.0	2332.7
10°	2283.4	2290.7	2301.6	2301.6	2308.9	2308.9	2314.4	2316.3	2316.3	2323.6	2329.0
12.5°	2283.4	2287.0	2296.2	2296.2	2301.6	2303.5	2310.8	2316.3	2318.1	2327.2	2334.5
15°	2272.4	2276.1	2283.4	2285.2	2298.0	2305.3	2321.7	2332.7	2332.7	2341.8	2345.5
17.5°	2241.4	2250.5	2265.1	2279.7	2303.5	2319.9	2340.0	2349.1	2341.8	2336.4	2330.9
20°	2190.2	2206.7	2241.4	2277.9	2319.9	2341.8	2352.8	2343.7	2318.1	2292.5	2276.1
22.5°	2139.1	2171.9	2230.4	2285.2	2332.7	2347.3	2341.8	2308.9	2266.9	2235.9	2214.0
25°	2162.8	2201.2	2257.8	2307.1	2338.2	2334.5	2312.6	2266.9	2221.3	2181.1	2144.5
27.5°	2261.5	2303.5	2334.5	2351.0	2347.3	2321.7	2287.0	2235.9	2181.1	2128.1	2077.0
30°	2354.6	2376.5	2383.8	2371.1	2341.8	2299.8	2256.0	2197.5	2124.5	2058.7	2000.2
32.5°	2396.6	2374.7	2340.0	2305.3	2257.8	2221.3	2161.0	2097.1	2005.7	1927.2	1868.7
35°	2396.6	2308.9	2221.3	2148.2	2077.0	2031.3	1961.9	1876.0	1792.0	1726.2	1680.6
37.5°	2343.7	2175.6	2031.3	1912.6	1823.0	1773.7	1669.6	1592.9	1521.6	1499.7	1470.5
40°	2246.8	1998.4	1790.2	1634.9	1521.6	1448.6	1344.5	1291.5	1264.1	1253.1	1247.6
42.5°	2117.1	1801.1	1523.5	1331.7	1209.3	1127.1	1057.7	1024.8	1023.0	1021.1	1021.1
45°	1978.3	1589.2	1264.1	1035.7	928.0	854.9	822.0	809.2	820.2	818.4	820.2
47.5°	1892.5	1428.5	1026.6	783.7	701.5	654.0	637.5	643.0	652.1	648.5	648.5
50°	1881.5	1346.3	867.7	610.1	548.0	524.3	520.6	520.6	526.1	522.4	520.6
52.5°	1921.7	1333.5	785.5	524.3	474.9	454.8	451.2	449.4	447.5	436.6	427.4
55°	1991.1	1362.7	761.7	502.3	451.2	429.3	423.8	420.1	412.8	398.2	381.8
57.5°	2129.9	1454.1	783.7	513.3	458.5	440.2	434.8	434.8	420.1	396.4	372.6
60°	2464.2	1686.0	873.2	555.3	493.2	474.9	478.6	476.8	454.8	420.1	383.6
62.5°	2895.3	1989.3	990.1	613.8	537.0	533.4	551.7	548.0	511.5	458.5	405.5
65°	3094.4	2131.8	1023.0	626.6	546.2	562.6	599.2	595.5	549.8	476.8	409.2
66°	3098.1	2131.8	1008.3	615.6	533.4	553.5	590.0	588.2	542.5	469.5	401.9
67.5°	3023.2	2073.3	966.3	593.7	507.8	522.4	555.3	553.5	511.5	451.2	387.3
70°	2741.9	1855.9	858.5	555.3	473.1	465.8	476.8	469.5	442.1	400.0	356.2
72.5°	2349.1	1558.2	748.9	526.1	449.4	420.1	412.8	407.4	385.4	361.7	334.3
75°	1850.4	1233.0	657.6	504.2	427.4	389.1	376.3	369.0	354.4	337.9	316.0
77.5°	1141.7	882.3	573.6	474.9	411.0	372.6	363.5	352.6	330.6	310.5	294.1
80°	509.6	546.2	471.3	414.7	367.2	332.5	317.8	301.4	279.5	266.7	257.6
82.5°	339.8	352.6	341.6	310.5	277.7	250.3	228.3	228.3	224.7	213.7	210.1
85°	217.4	219.2	211.9	191.8	179.0	162.6	153.4	155.3	162.6	160.7	158.9
87.5°	49.3	49.3	58.5	54.8	63.9	67.6	73.1	78.5	89.5	89.5	95.0
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: P156659

CATALOG NUMBER: TLM-E06-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2182.9	2182.9	2182.9	2182.9	2182.9
2.5°	2246.8	2250.5	2254.1	2248.7	2250.5
5°	2310.8	2308.9	2318.1	2312.6	2316.3
7.5°	2330.9	2332.7	2340.0	2340.0	2341.8
10°	2332.7	2336.4	2345.5	2351.0	2354.6
12.5°	2341.8	2349.1	2363.8	2367.4	2367.4
15°	2349.1	2352.8	2361.9	2365.6	2369.2
17.5°	2323.6	2316.3	2319.9	2321.7	2319.9
20°	2259.6	2252.3	2250.5	2243.2	2246.8
22.5°	2190.2	2170.1	2157.3	2142.7	2142.7
25°	2106.2	2075.1	2049.6	2024.0	2029.5
27.5°	2027.6	1987.5	1961.9	1945.4	1941.8
30°	1950.9	1908.9	1885.2	1865.1	1865.1
32.5°	1823.0	1793.8	1762.8	1750.0	1748.2
35°	1645.9	1627.6	1602.0	1596.5	1587.4
37.5°	1446.7	1441.3	1419.3	1417.5	1408.4
40°	1238.5	1242.2	1234.8	1231.2	1225.7
42.5°	1030.3	1048.5	1044.9	1043.0	1039.4
45°	831.1	843.9	845.8	851.2	860.4
47.5°	654.0	657.6	661.3	659.4	661.3
50°	511.5	502.3	500.5	495.0	500.5
52.5°	412.8	398.2	390.9	383.6	380.0
55°	363.5	348.9	341.6	337.9	334.3
57.5°	350.7	336.1	325.2	317.8	316.0
60°	354.4	332.5	317.8	308.7	306.9
62.5°	363.5	334.3	314.2	305.1	303.2
65°	361.7	330.6	312.4	301.4	299.6
66°	356.2	327.0	308.7	299.6	297.8
67.5°	347.1	321.5	305.1	297.8	294.1
70°	330.6	314.2	301.4	292.3	288.6
72.5°	316.0	303.2	292.3	283.1	281.3
75°	299.6	288.6	277.7	270.4	268.5
77.5°	279.5	268.5	261.2	255.7	253.9
80°	246.6	239.3	232.0	224.7	224.7
82.5°	204.6	199.1	191.8	186.3	184.5
85°	157.1	157.1	151.6	146.1	144.3
87.5°	93.2	91.3	91.3	85.9	85.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)