

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: P151835

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151835
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-HSS
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10078.7 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

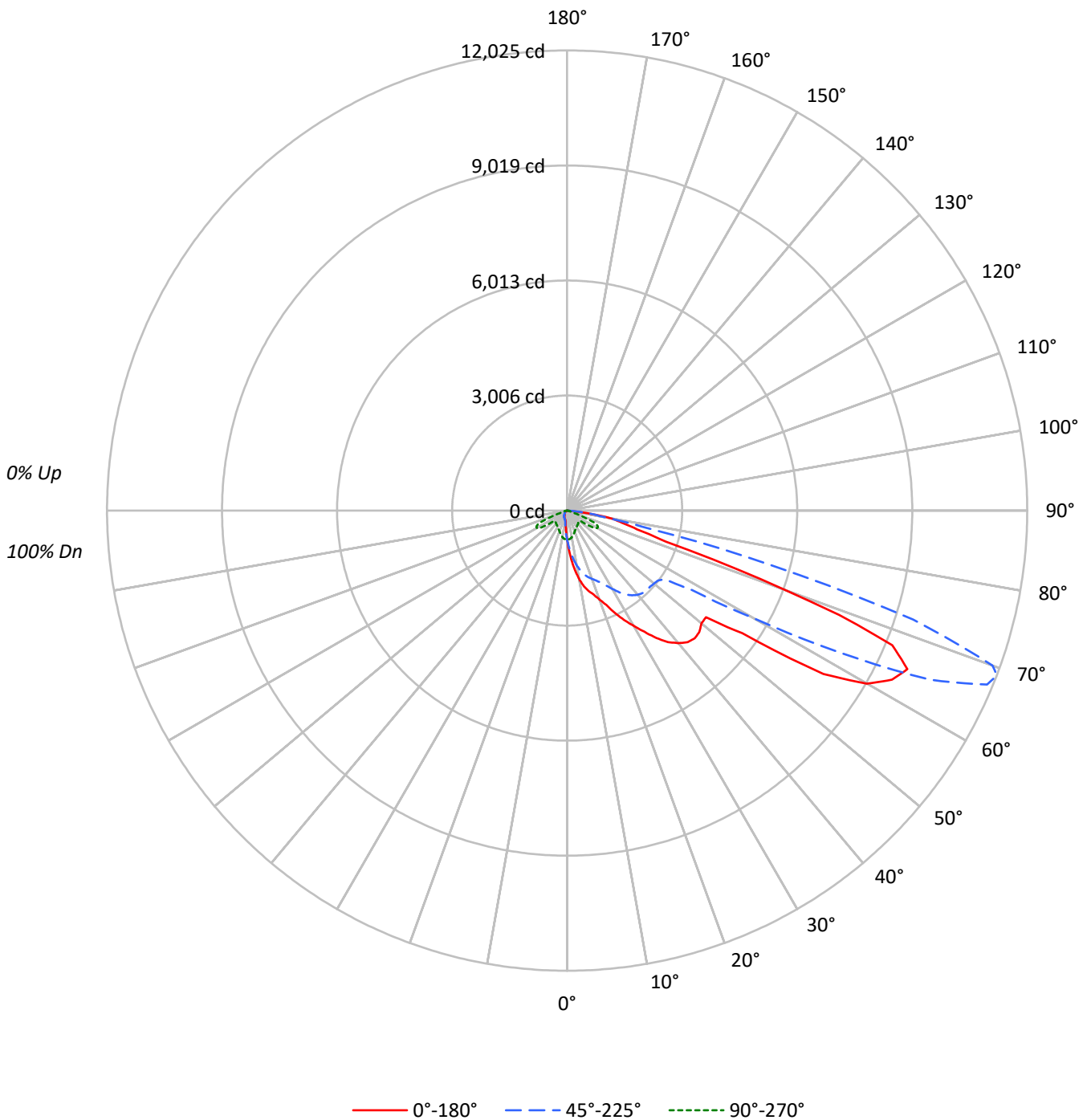
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	105	99	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8192	8192	8192
5°	14004	8081	4299
10°	19941	7723	2761
15°	24250	7102	2502
20°	28293	6620	2269
25°	35022	6334	2000
30°	43217	6197	1703
35°	53414	6139	1432
40°	63543	6240	1322
45°	71830	6509	1358
50°	76750	7160	1244
55°	104881	12393	743
60°	194743	19655	534
65°	249869	21237	504
70°	188672	8781	573
75°	78552	3365	686
80°	71744	3174	924
85°	6323	2853	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	0.8
10°-20°	269.7	2.7
20°-30°	516.2	5.1
30°-40°	858.5	8.5
40°-50°	1161.7	11.5
50°-60°	1816.8	18.0
60°-70°	3735.3	37.1
70°-80°	1503.0	14.9
80°-90°	139.0	1.4
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°	864.2	8.6
0°-40°	1722.7	17.1
0°-60°	4701.3	46.6
0°-90°	10078.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10078.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	761	761	761	761	761	
5°	1296	1103	748	476	398	140
15°	2176	1725	637	236	224	622
25°	2949	2077	533	188	168	1381
35°	4065	2681	467	134	109	2549
45°	4719	2936	428	88	89	3607
55°	5589	3120	660	58	40	5635
65°	9810	10461	834	28	20	8988
75°	1889	5508	81	12	16	2532
85°	51	221	23	8	13	317
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°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	1015.4	1003.8	990.6	990.6	974.1	974.1	964.2	937.8	934.5	919.6	904.8
5°	1296.1	1286.2	1269.7	1254.8	1241.6	1218.5	1202.0	1170.6	1135.9	1102.9	1073.2
7.5°	1570.1	1565.2	1535.5	1530.5	1509.1	1471.1	1438.1	1391.8	1332.4	1286.2	1231.7
10°	1824.4	1812.9	1806.2	1778.2	1746.8	1705.5	1654.4	1598.2	1528.9	1456.2	1378.6
12.5°	2025.8	2019.2	1989.5	1978.0	1944.9	1903.7	1839.3	1766.6	1697.3	1603.2	1512.4
15°	2176.1	2164.5	2144.7	2126.6	2086.9	2050.6	1991.2	1911.9	1827.7	1725.3	1616.4
17.5°	2301.6	2280.1	2275.1	2247.1	2205.8	2162.9	2096.8	2024.2	1925.1	1822.8	1703.9
20°	2470.0	2440.3	2430.3	2389.1	2341.2	2281.8	2205.8	2115.0	2011.0	1898.7	1776.5
22.5°	2668.1	2646.6	2625.2	2588.8	2527.8	2443.6	2332.9	2233.9	2101.8	1978.0	1845.9
25°	2948.8	2930.6	2895.9	2846.4	2770.5	2669.7	2536.0	2390.7	2235.5	2077.0	1921.8
27.5°	3221.2	3204.7	3179.9	3141.9	3056.1	2945.5	2780.4	2595.5	2399.0	2207.5	2035.7
30°	3477.1	3462.3	3437.5	3399.5	3323.6	3214.6	3028.0	2829.9	2585.5	2362.7	2156.3
32.5°	3752.8	3747.9	3719.8	3665.3	3599.3	3452.3	3249.3	3036.3	2788.6	2531.1	2290.0
35°	4064.9	4026.9	4000.5	3946.0	3833.7	3676.9	3439.1	3206.3	2945.5	2681.3	2412.2
37.5°	4329.1	4292.7	4259.7	4190.4	4053.3	3853.6	3584.4	3328.5	3059.4	2790.3	2516.2
40°	4522.2	4504.1	4464.4	4373.6	4220.1	3982.3	3691.7	3412.7	3141.9	2871.2	2600.4
42.5°	4665.9	4637.8	4593.2	4499.1	4317.5	4046.7	3734.7	3447.4	3179.9	2920.7	2654.9
45°	4718.7	4695.6	4654.3	4551.9	4355.5	4064.9	3733.0	3437.5	3181.6	2935.6	2691.2
47.5°	4687.3	4664.2	4627.9	4532.1	4339.0	4043.4	3703.3	3409.4	3165.1	2940.5	2724.2
50°	4583.3	4570.1	4542.0	4461.1	4287.8	4002.1	3676.9	3394.6	3161.8	2965.3	2770.5
52.5°	4573.4	4565.2	4530.5	4449.6	4272.9	3988.9	3673.6	3402.8	3189.8	2996.7	2803.5
55°	5588.8	5471.6	5209.1	4986.2	4619.6	4183.8	3840.3	3536.5	3308.7	3120.5	2985.1
57.5°	7943.2	7768.2	7423.1	6998.8	6156.8	5329.6	4667.5	4188.7	3952.6	3866.8	3917.9
60°	9046.1	9014.7	8960.2	8758.8	8327.9	7616.3	6823.8	5966.9	5623.5	5593.8	5697.8
62.5°	9569.5	9549.7	9566.2	9541.4	9407.7	9199.6	8971.8	8602.0	8261.9	8042.3	7576.7
65°	9810.5	9823.7	9917.9	9992.2	10008.7	10063.1	10229.9	10690.5	11027.4	10461.1	9168.3
67.5°	9198.0	9275.6	9491.9	9762.7	10079.7	10386.8	10882.1	11852.9	12544.7	11879.3	10043.3
69°	7614.6	7652.6	8181.0	8691.1	9465.5	10007.0	10725.2	11998.2	12775.8	12024.6	9974.0
70°	5995.0	6029.6	6595.9	7289.4	8598.7	9295.4	10234.9	11752.2	12559.5	11831.4	9617.4
72.5°	2704.4	2654.9	2854.7	3226.2	4649.4	5755.6	7398.4	9521.6	10362.0	9478.7	7195.3
75°	1888.8	1867.3	1888.8	1890.5	2111.7	2724.2	3437.5	5161.2	6383.0	5507.9	3437.5
77.5°	1462.8	1448.0	1433.1	1416.6	1443.0	1616.4	1685.7	1831.0	2377.5	2248.7	1310.9
80°	1157.4	1144.2	1180.5	1168.9	1168.9	1188.8	1175.5	1121.1	1018.7	944.4	845.3
82.5°	538.2	541.5	541.5	587.8	708.3	827.2	865.2	810.7	719.9	612.5	493.7
85°	51.2	57.8	97.4	150.2	298.8	336.8	338.5	280.7	280.7	221.2	178.3
87.5°	0.0	1.7	1.7	1.7	14.9	41.3	34.7	9.9	5.0	5.0	8.3
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°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	878.4	873.4	853.6	833.8	815.6	795.8	777.6	759.5	739.7	724.8	706.6
5°	1027.0	990.6	949.4	909.7	870.1	828.8	785.9	747.9	708.3	672.0	637.3
7.5°	1177.2	1106.2	1050.1	979.1	914.7	850.3	790.9	729.8	673.6	620.8	571.3
10°	1304.3	1218.5	1131.0	1040.2	947.7	861.8	779.3	706.6	632.4	568.0	506.9
12.5°	1408.3	1299.4	1192.1	1078.1	974.1	865.2	762.8	675.3	587.8	515.1	452.4
15°	1502.5	1377.0	1248.2	1116.1	984.0	860.2	746.3	637.3	548.1	465.6	394.6
17.5°	1578.4	1434.8	1289.5	1140.9	998.9	853.6	724.8	610.9	506.9	421.0	351.7
20°	1644.4	1494.2	1337.4	1170.6	1008.8	851.9	706.6	577.9	470.5	379.7	312.0
22.5°	1705.5	1555.3	1386.9	1208.6	1023.7	850.3	690.1	553.1	439.2	348.4	280.7
25°	1774.9	1616.4	1439.7	1248.2	1050.1	856.9	680.2	533.3	411.1	318.7	255.9
27.5°	1852.5	1685.7	1502.5	1297.7	1084.7	870.1	676.9	511.8	386.3	290.6	236.1
30°	1961.4	1768.3	1565.2	1347.3	1116.1	885.0	673.6	498.6	361.6	269.1	216.3
32.5°	2057.2	1849.2	1634.5	1398.4	1150.8	899.8	672.0	480.5	338.5	247.7	201.4
35°	2157.9	1923.5	1694.0	1448.0	1180.5	916.3	670.3	467.2	317.0	226.2	186.6
37.5°	2245.4	1986.2	1740.2	1490.9	1213.5	931.2	672.0	455.7	297.2	208.0	173.4
40°	2319.7	2050.6	1791.4	1530.5	1248.2	954.3	673.6	444.1	277.4	191.5	161.8
42.5°	2385.8	2111.7	1845.9	1575.1	1287.8	980.7	683.5	434.2	260.9	176.7	150.2
45°	2436.9	2167.8	1905.3	1637.8	1352.2	1023.7	701.7	427.6	244.4	163.5	140.3
47.5°	2489.8	2250.4	2006.0	1736.9	1446.3	1091.3	733.1	426.0	231.1	153.5	132.1
50°	2562.4	2332.9	2095.2	1837.6	1532.2	1160.7	771.0	427.6	214.6	143.6	123.8
52.5°	2615.3	2417.1	2210.8	2012.6	1736.9	1372.0	918.0	457.3	206.4	135.4	113.9
55°	2927.3	2892.6	2897.6	2930.6	2717.6	2334.6	1535.5	660.4	242.7	153.5	112.3
57.5°	4127.6	4249.8	4320.8	4319.1	3967.5	3290.5	2062.2	848.6	270.8	178.3	133.7
60°	5706.0	5613.6	5483.1	5161.2	4693.9	3756.1	2306.5	913.0	234.4	142.0	122.2
62.5°	7101.2	6559.6	6079.2	5557.4	4944.9	3917.9	2356.0	908.1	204.7	107.3	85.9
65°	7971.3	6997.1	6221.2	5567.3	4845.8	3782.6	2228.9	833.8	173.4	87.5	71.0
67.5°	8179.3	6761.0	5663.1	4829.3	4048.4	2943.8	1636.2	627.4	135.4	72.6	62.7
69°	7725.3	6009.8	4692.3	3746.2	2945.5	1953.2	1012.1	396.3	104.0	66.0	57.8
70°	7106.1	5227.2	3822.2	3006.6	2181.0	1372.0	708.3	279.0	84.2	61.1	52.8
72.5°	4571.8	2745.7	1878.9	1307.6	899.8	546.5	277.4	125.5	64.4	51.2	42.9
75°	1773.2	1015.4	736.4	559.7	437.5	303.8	168.4	80.9	54.5	42.9	33.0
77.5°	873.4	668.7	546.5	374.8	217.9	135.4	90.8	62.7	44.6	31.4	21.5
80°	690.1	459.0	274.1	170.1	128.8	97.4	69.3	51.2	33.0	19.8	14.9
82.5°	353.3	193.2	142.0	115.6	95.8	75.9	56.1	36.3	21.5	13.2	11.6
85°	110.6	80.9	72.6	71.0	66.0	54.5	39.6	23.1	13.2	8.3	8.3
87.5°	8.3	11.6	14.9	11.6	13.2	11.6	14.9	9.9	6.6	6.6	5.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	693.4	673.6	655.5	643.9	622.4	614.2	605.9	602.6	587.8	591.1	577.9
5°	605.9	571.3	544.8	518.4	493.7	475.5	460.6	442.5	427.6	421.0	407.8
7.5°	526.7	482.1	447.4	419.4	389.6	366.5	346.7	333.5	320.3	307.1	300.5
10°	457.3	409.5	369.8	341.8	313.7	293.9	279.0	269.1	260.9	255.9	254.3
12.5°	392.9	346.7	310.4	285.6	264.2	254.3	247.7	242.7	241.1	239.4	239.4
15°	343.4	297.2	269.1	251.0	241.1	236.1	234.4	231.1	227.8	226.2	226.2
17.5°	297.2	262.5	242.7	232.8	227.8	224.5	221.2	217.9	214.6	213.0	213.0
20°	265.8	237.8	227.8	221.2	216.3	213.0	208.0	204.7	203.1	201.4	199.8
22.5°	241.1	222.9	216.3	211.3	204.7	199.8	196.5	193.2	189.9	188.2	186.6
25°	222.9	211.3	206.4	199.8	193.2	188.2	183.3	178.3	175.0	173.4	170.1
27.5°	209.7	201.4	194.8	186.6	180.0	175.0	170.1	165.1	161.8	158.5	156.8
30°	198.1	189.9	181.6	175.0	166.8	161.8	155.2	150.2	148.6	145.3	142.0
32.5°	186.6	178.3	170.1	161.8	153.5	146.9	143.6	137.0	133.7	132.1	128.8
35°	173.4	165.1	155.2	148.6	140.3	133.7	128.8	123.8	120.5	117.2	115.6
37.5°	161.8	151.9	142.0	133.7	127.1	120.5	115.6	110.6	107.3	104.0	102.4
40°	148.6	138.7	128.8	120.5	113.9	109.0	104.0	99.1	95.8	94.1	94.1
42.5°	137.0	125.5	115.6	109.0	104.0	97.4	92.5	87.5	85.9	84.2	85.9
45°	125.5	113.9	105.7	99.1	94.1	87.5	82.6	79.3	77.6	79.3	80.9
47.5°	115.6	104.0	95.8	90.8	85.9	80.9	75.9	72.6	72.6	75.9	79.3
50°	105.7	94.1	87.5	84.2	79.3	74.3	67.7	66.0	67.7	71.0	74.3
52.5°	95.8	82.6	77.6	75.9	71.0	66.0	61.1	59.4	61.1	64.4	62.7
55°	85.9	72.6	71.0	69.3	64.4	57.8	52.8	52.8	52.8	51.2	47.9
57.5°	82.6	64.4	62.7	61.1	56.1	49.5	46.2	42.9	41.3	36.3	34.7
60°	85.9	57.8	57.8	54.5	49.5	42.9	38.0	33.0	29.7	26.4	26.4
62.5°	69.3	52.8	51.2	47.9	41.3	34.7	29.7	24.8	23.1	21.5	21.5
65°	56.1	47.9	44.6	39.6	34.7	28.1	23.1	19.8	18.2	18.2	19.8
67.5°	51.2	42.9	38.0	33.0	28.1	21.5	18.2	16.5	16.5	18.2	18.2
69°	47.9	39.6	34.7	29.7	24.8	19.8	16.5	16.5	16.5	16.5	18.2
70°	44.6	38.0	33.0	28.1	21.5	16.5	14.9	14.9	16.5	16.5	18.2
72.5°	34.7	29.7	28.1	23.1	16.5	14.9	13.2	14.9	14.9	16.5	16.5
75°	26.4	21.5	21.5	18.2	13.2	11.6	11.6	13.2	13.2	14.9	14.9
77.5°	18.2	14.9	14.9	13.2	11.6	9.9	9.9	11.6	13.2	13.2	14.9
80°	13.2	11.6	9.9	11.6	9.9	8.3	9.9	11.6	11.6	13.2	13.2
82.5°	9.9	9.9	9.9	9.9	8.3	8.3	9.9	9.9	11.6	13.2	13.2
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	9.9	9.9	11.6	11.6
87.5°	5.0	5.0	5.0	6.6	6.6	8.3	8.3	8.3	8.3	9.9	9.9
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: P151835

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	761.1	761.1	761.1	761.1
2.5°	574.6	572.9	566.3	568.0
5°	402.9	392.9	399.6	397.9
7.5°	295.5	293.9	292.2	295.5
10°	252.6	252.6	251.0	252.6
12.5°	237.8	237.8	237.8	237.8
15°	226.2	226.2	224.5	224.5
17.5°	213.0	213.0	213.0	211.3
20°	199.8	198.1	198.1	198.1
22.5°	184.9	183.3	183.3	183.3
25°	170.1	168.4	168.4	168.4
27.5°	155.2	153.5	151.9	151.9
30°	140.3	138.7	137.0	137.0
32.5°	125.5	123.8	122.2	122.2
35°	112.3	112.3	110.6	109.0
37.5°	100.7	100.7	100.7	100.7
40°	92.5	94.1	94.1	94.1
42.5°	87.5	89.2	90.8	92.5
45°	84.2	87.5	89.2	89.2
47.5°	82.6	84.2	85.9	85.9
50°	75.9	74.3	74.3	74.3
52.5°	61.1	57.8	56.1	54.5
55°	44.6	42.9	39.6	39.6
57.5°	31.4	31.4	29.7	29.7
60°	24.8	24.8	23.1	24.8
62.5°	21.5	21.5	21.5	21.5
65°	19.8	19.8	19.8	19.8
67.5°	19.8	19.8	19.8	19.8
69°	18.2	18.2	18.2	18.2
70°	18.2	18.2	18.2	18.2
72.5°	16.5	16.5	16.5	16.5
75°	14.9	16.5	16.5	16.5
77.5°	14.9	14.9	14.9	14.9
80°	13.2	13.2	14.9	14.9
82.5°	13.2	13.2	13.2	13.2
85°	11.6	11.6	13.2	13.2
87.5°	9.9	9.9	11.6	11.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)