

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: P151833

Luminaire Tested: **TLM-F06-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151833  
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-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

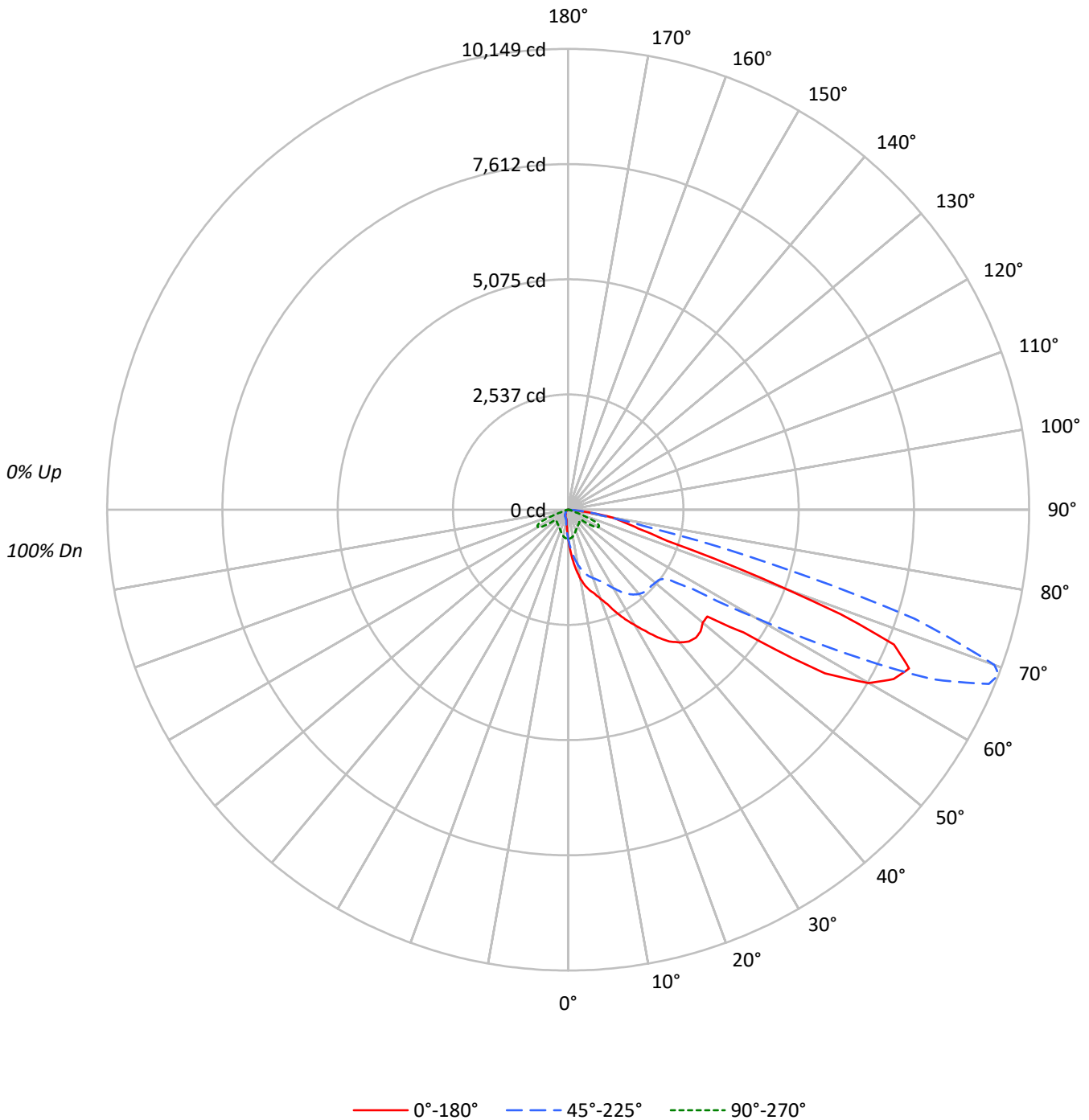
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8506.3 lumens  
Efficiency: N/A  
Efficacy: 54.4 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<sub>in</sub>): 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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CATALOG NUMBER: TLM-F06-LED-E1-SL4-HSS-8030

### 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58	55
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43	41
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33	31
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27	24
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22	19
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18	16
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15	13
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	6915	6915	6915
5°	11820	6820	3628
10°	16830	6519	2330
15°	20466	5994	2112
20°	23879	5586	1915
25°	29557	5346	1688
30°	36476	5230	1438
35°	45080	5183	1209
40°	53630	5266	1116
45°	60624	5494	1145
50°	64777	6044	1050
55°	88519	10460	627
60°	164361	16589	450
65°	210888	17923	425
70°	159237	7412	482
75°	66296	2840	578
80°	60549	2678	775
85°	5335	2408	1371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	0.8
10°-20°	227.6	2.7
20°-30°	435.7	5.1
30°-40°	724.6	8.5
40°-50°	980.5	11.5
50°-60°	1533.4	18.0
60°-70°	3152.6	37.1
70°-80°	1268.5	14.9
80°-90°	117.4	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°	729.4	8.6
0°-40°	1454.0	17.1
0°-60°	3967.8	46.6
0°-90°	8506.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8506.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	642	642	642	642	642	
5°	1094	931	631	401	336	118
15°	1837	1456	538	199	190	525
25°	2489	1753	450	159	142	1166
35°	3431	2263	394	113	92	2151
45°	3982	2478	361	74	75	3044
55°	4717	2634	557	49	33	4756
65°	8280	8829	704	24	17	7585
75°	1594	4649	68	10	14	2137
85°	43	187	20	7	11	268
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°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
2.5°	857.0	847.2	836.1	836.1	822.1	822.1	813.8	791.5	788.7	776.2	763.6
5°	1093.9	1085.5	1071.6	1059.0	1047.9	1028.4	1014.4	988.0	958.7	930.8	905.8
7.5°	1325.2	1321.0	1295.9	1291.7	1273.6	1241.6	1213.7	1174.7	1124.5	1085.5	1039.5
10°	1539.8	1530.0	1524.5	1500.8	1474.3	1439.5	1396.3	1348.9	1290.4	1229.0	1163.5
12.5°	1709.8	1704.2	1679.1	1669.4	1641.5	1606.7	1552.3	1491.0	1432.5	1353.1	1276.4
15°	1836.6	1826.8	1810.1	1794.8	1761.3	1730.7	1680.5	1613.6	1542.6	1456.2	1364.2
17.5°	1942.5	1924.4	1920.2	1896.5	1861.7	1825.4	1769.7	1708.4	1624.8	1538.4	1438.1
20°	2084.6	2059.6	2051.2	2016.4	1975.9	1925.8	1861.7	1785.0	1697.2	1602.5	1499.4
22.5°	2251.8	2233.7	2215.6	2185.0	2133.4	2062.3	1969.0	1885.4	1773.9	1669.4	1557.9
25°	2488.7	2473.4	2444.1	2402.3	2338.2	2253.2	2140.4	2017.7	1886.8	1753.0	1622.0
27.5°	2718.7	2704.7	2683.8	2651.8	2579.3	2486.0	2346.6	2190.5	2024.7	1863.1	1718.1
30°	2934.7	2922.1	2901.2	2869.2	2805.1	2713.1	2555.6	2388.4	2182.2	1994.1	1819.9
32.5°	3167.4	3163.2	3139.5	3093.5	3037.8	2913.7	2742.4	2562.6	2353.6	2136.2	1932.7
35°	3430.7	3398.7	3376.4	3330.4	3235.6	3103.3	2902.6	2706.1	2486.0	2263.0	2035.9
37.5°	3653.7	3623.0	3595.2	3536.6	3421.0	3252.4	3025.2	2809.2	2582.1	2355.0	2123.6
40°	3816.7	3801.4	3767.9	3691.3	3561.7	3361.1	3115.8	2880.3	2651.8	2423.2	2194.7
42.5°	3937.9	3914.3	3876.6	3797.2	3643.9	3415.4	3152.0	2909.6	2683.8	2465.1	2240.7
45°	3982.5	3963.0	3928.2	3841.8	3676.0	3430.7	3150.6	2901.2	2685.2	2477.6	2271.4
47.5°	3956.1	3936.6	3905.9	3825.1	3662.0	3412.6	3125.6	2877.5	2671.3	2481.8	2299.2
50°	3868.3	3857.1	3833.4	3765.2	3618.8	3377.8	3103.3	2865.0	2668.5	2502.7	2338.2
52.5°	3859.9	3852.9	3823.7	3755.4	3606.3	3366.6	3100.5	2871.9	2692.2	2529.2	2366.1
55°	4716.9	4618.0	4396.4	4208.3	3898.9	3531.1	3241.2	2984.8	2792.5	2633.7	2519.4
57.5°	6704.0	6556.3	6265.0	5906.9	5196.3	4498.1	3939.3	3535.2	3336.0	3263.5	3306.7
60°	7634.8	7608.4	7562.4	7392.4	7028.7	6428.1	5759.2	5036.0	4746.2	4721.1	4808.9
62.5°	8076.6	8059.8	8073.8	8052.9	7940.0	7764.4	7572.1	7260.0	6972.9	6787.6	6394.6
65°	8280.0	8291.2	8370.6	8433.3	8447.2	8493.2	8633.9	9022.7	9307.0	8829.0	7737.9
67.5°	7763.0	7828.5	8011.1	8239.6	8507.1	8766.3	9184.4	10003.7	10587.6	10026.0	8476.5
69°	6426.7	6458.7	6904.6	7335.2	7988.8	8445.8	9052.0	10126.4	10782.7	10148.7	8418.0
70°	5059.7	5089.0	5566.9	6152.2	7257.2	7845.2	8638.1	9918.7	10600.1	9985.6	8117.0
72.5°	2282.5	2240.7	2409.3	2722.8	3924.0	4857.6	6244.1	8036.1	8745.4	7999.9	6072.7
75°	1594.1	1576.0	1594.1	1595.5	1782.2	2299.2	2901.2	4356.0	5387.2	4648.6	2901.2
77.5°	1234.6	1222.1	1209.5	1195.6	1217.9	1364.2	1422.7	1545.4	2006.6	1897.9	1106.4
80°	976.8	965.7	996.3	986.6	986.6	1003.3	992.2	946.2	859.8	797.1	713.5
82.5°	454.3	457.1	457.1	496.1	597.8	698.1	730.2	684.2	607.6	517.0	416.6
85°	43.2	48.8	82.2	126.8	252.2	284.3	285.7	236.9	236.9	186.7	150.5
87.5°	0.0	1.4	1.4	1.4	12.5	34.8	29.3	8.4	4.2	4.2	7.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
2.5°	741.3	737.1	720.4	703.7	688.4	671.7	656.3	641.0	624.3	611.7	596.4
5°	866.7	836.1	801.2	767.8	734.4	699.5	663.3	631.2	597.8	567.1	537.9
7.5°	993.5	933.6	886.2	826.3	772.0	717.6	667.5	615.9	568.5	523.9	482.1
10°	1100.8	1028.4	954.5	877.9	799.9	727.4	657.7	596.4	533.7	479.4	427.8
12.5°	1188.6	1096.7	1006.1	909.9	822.1	730.2	643.8	569.9	496.1	434.8	381.8
15°	1268.1	1162.2	1053.5	942.0	830.5	726.0	629.8	537.9	462.6	393.0	333.0
17.5°	1332.2	1210.9	1088.3	962.9	843.1	720.4	611.7	515.6	427.8	355.3	296.8
20°	1387.9	1261.1	1128.7	988.0	851.4	719.0	596.4	487.7	397.1	320.5	263.4
22.5°	1439.5	1312.6	1170.5	1020.0	864.0	717.6	582.5	466.8	370.7	294.0	236.9
25°	1498.0	1364.2	1215.1	1053.5	886.2	723.2	574.1	450.1	347.0	268.9	216.0
27.5°	1563.5	1422.7	1268.1	1095.3	915.5	734.4	571.3	432.0	326.1	245.3	199.3
30°	1655.4	1492.4	1321.0	1137.1	942.0	746.9	568.5	420.8	305.2	227.1	182.5
32.5°	1736.3	1560.7	1379.5	1180.3	971.2	759.4	567.1	405.5	285.7	209.0	170.0
35°	1821.3	1623.4	1429.7	1222.1	996.3	773.4	565.7	394.4	267.5	190.9	157.5
37.5°	1895.1	1676.3	1468.7	1258.3	1024.2	785.9	567.1	384.6	250.8	175.6	146.3
40°	1957.8	1730.7	1511.9	1291.7	1053.5	805.4	568.5	374.8	234.1	161.6	136.6
42.5°	2013.6	1782.2	1557.9	1329.4	1086.9	827.7	576.9	366.5	220.2	149.1	126.8
45°	2056.8	1829.6	1608.1	1382.3	1141.3	864.0	592.2	360.9	206.2	138.0	118.4
47.5°	2101.4	1899.3	1693.1	1465.9	1220.7	921.1	618.7	359.5	195.1	129.6	111.5
50°	2162.7	1969.0	1768.3	1550.9	1293.1	979.6	650.8	360.9	181.2	121.2	104.5
52.5°	2207.3	2040.0	1865.9	1698.6	1465.9	1158.0	774.8	386.0	174.2	114.3	96.1
55°	2470.6	2441.4	2445.5	2473.4	2293.7	1970.4	1295.9	557.4	204.8	129.6	94.8
57.5°	3483.7	3586.8	3646.7	3645.3	3348.5	2777.2	1740.4	716.2	228.5	150.5	112.9
60°	4815.8	4737.8	4627.7	4356.0	3961.6	3170.1	1946.7	770.6	197.9	119.8	103.1
62.5°	5993.3	5536.3	5130.8	4690.4	4173.4	3306.7	1988.5	766.4	172.8	90.6	72.5
65°	6727.7	5905.5	5250.6	4698.8	4089.8	3192.4	1881.2	703.7	146.3	73.9	59.9
67.5°	6903.3	5706.3	4779.6	4075.9	3416.8	2484.6	1380.9	529.5	114.3	61.3	53.0
69°	6520.1	5072.2	3960.2	3161.8	2486.0	1648.5	854.2	334.4	87.8	55.7	48.8
70°	5997.5	4411.7	3225.9	2537.5	1840.8	1158.0	597.8	235.5	71.1	51.6	44.6
72.5°	3858.5	2317.3	1585.8	1103.6	759.4	461.2	234.1	105.9	54.3	43.2	36.2
75°	1496.6	857.0	621.5	472.4	369.3	256.4	142.1	68.3	46.0	36.2	27.9
77.5°	737.1	564.4	461.2	316.3	183.9	114.3	76.6	53.0	37.6	26.5	18.1
80°	582.5	387.4	231.3	143.5	108.7	82.2	58.5	43.2	27.9	16.7	12.5
82.5°	298.2	163.0	119.8	97.5	80.8	64.1	47.4	30.7	18.1	11.1	9.8
85°	93.4	68.3	61.3	59.9	55.7	46.0	33.4	19.5	11.1	7.0	7.0
87.5°	7.0	9.8	12.5	9.8	11.1	9.8	12.5	8.4	5.6	5.6	4.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
2.5°	585.3	568.5	553.2	543.5	525.3	518.4	511.4	508.6	496.1	498.9	487.7
5°	511.4	482.1	459.8	437.5	416.6	401.3	388.8	373.5	360.9	355.3	344.2
7.5°	444.5	406.9	377.6	353.9	328.9	309.4	292.6	281.5	270.3	259.2	253.6
10°	386.0	345.6	312.1	288.4	264.8	248.0	235.5	227.1	220.2	216.0	214.6
12.5°	331.6	292.6	262.0	241.1	223.0	214.6	209.0	204.8	203.4	202.1	202.1
15°	289.8	250.8	227.1	211.8	203.4	199.3	197.9	195.1	192.3	190.9	190.9
17.5°	250.8	221.6	204.8	196.5	192.3	189.5	186.7	183.9	181.2	179.8	179.8
20°	224.3	200.7	192.3	186.7	182.5	179.8	175.6	172.8	171.4	170.0	168.6
22.5°	203.4	188.1	182.5	178.4	172.8	168.6	165.8	163.0	160.2	158.9	157.5
25°	188.1	178.4	174.2	168.6	163.0	158.9	154.7	150.5	147.7	146.3	143.5
27.5°	177.0	170.0	164.4	157.5	151.9	147.7	143.5	139.3	136.6	133.8	132.4
30°	167.2	160.2	153.3	147.7	140.7	136.6	131.0	126.8	125.4	122.6	119.8
32.5°	157.5	150.5	143.5	136.6	129.6	124.0	121.2	115.7	112.9	111.5	108.7
35°	146.3	139.3	131.0	125.4	118.4	112.9	108.7	104.5	101.7	98.9	97.5
37.5°	136.6	128.2	119.8	112.9	107.3	101.7	97.5	93.4	90.6	87.8	86.4
40°	125.4	117.1	108.7	101.7	96.1	92.0	87.8	83.6	80.8	79.4	79.4
42.5°	115.7	105.9	97.5	92.0	87.8	82.2	78.0	73.9	72.5	71.1	72.5
45°	105.9	96.1	89.2	83.6	79.4	73.9	69.7	66.9	65.5	66.9	68.3
47.5°	97.5	87.8	80.8	76.6	72.5	68.3	64.1	61.3	61.3	64.1	66.9
50°	89.2	79.4	73.9	71.1	66.9	62.7	57.1	55.7	57.1	59.9	62.7
52.5°	80.8	69.7	65.5	64.1	59.9	55.7	51.6	50.2	51.6	54.3	53.0
55°	72.5	61.3	59.9	58.5	54.3	48.8	44.6	44.6	44.6	43.2	40.4
57.5°	69.7	54.3	53.0	51.6	47.4	41.8	39.0	36.2	34.8	30.7	29.3
60°	72.5	48.8	48.8	46.0	41.8	36.2	32.0	27.9	25.1	22.3	22.3
62.5°	58.5	44.6	43.2	40.4	34.8	29.3	25.1	20.9	19.5	18.1	18.1
65°	47.4	40.4	37.6	33.4	29.3	23.7	19.5	16.7	15.3	15.3	16.7
67.5°	43.2	36.2	32.0	27.9	23.7	18.1	15.3	13.9	13.9	15.3	15.3
69°	40.4	33.4	29.3	25.1	20.9	16.7	13.9	13.9	13.9	13.9	15.3
70°	37.6	32.0	27.9	23.7	18.1	13.9	12.5	12.5	13.9	13.9	15.3
72.5°	29.3	25.1	23.7	19.5	13.9	12.5	11.1	12.5	12.5	13.9	13.9
75°	22.3	18.1	18.1	15.3	11.1	9.8	9.8	11.1	11.1	12.5	12.5
77.5°	15.3	12.5	12.5	11.1	9.8	8.4	8.4	9.8	11.1	11.1	12.5
80°	11.1	9.8	8.4	9.8	8.4	7.0	8.4	9.8	9.8	11.1	11.1
82.5°	8.4	8.4	8.4	8.4	7.0	7.0	8.4	8.4	9.8	11.1	11.1
85°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	8.4	9.8	9.8
87.5°	4.2	4.2	4.2	5.6	5.6	7.0	7.0	7.0	7.0	8.4	8.4
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: P151833

CATALOG NUMBER: TLM-F06-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	642.4	642.4	642.4	642.4
2.5°	484.9	483.5	478.0	479.4
5°	340.0	331.6	337.2	335.8
7.5°	249.4	248.0	246.6	249.4
10°	213.2	213.2	211.8	213.2
12.5°	200.7	200.7	200.7	200.7
15°	190.9	190.9	189.5	189.5
17.5°	179.8	179.8	179.8	178.4
20°	168.6	167.2	167.2	167.2
22.5°	156.1	154.7	154.7	154.7
25°	143.5	142.1	142.1	142.1
27.5°	131.0	129.6	128.2	128.2
30°	118.4	117.1	115.7	115.7
32.5°	105.9	104.5	103.1	103.1
35°	94.8	94.8	93.4	92.0
37.5°	85.0	85.0	85.0	85.0
40°	78.0	79.4	79.4	79.4
42.5°	73.9	75.2	76.6	78.0
45°	71.1	73.9	75.2	75.2
47.5°	69.7	71.1	72.5	72.5
50°	64.1	62.7	62.7	62.7
52.5°	51.6	48.8	47.4	46.0
55°	37.6	36.2	33.4	33.4
57.5°	26.5	26.5	25.1	25.1
60°	20.9	20.9	19.5	20.9
62.5°	18.1	18.1	18.1	18.1
65°	16.7	16.7	16.7	16.7
67.5°	16.7	16.7	16.7	16.7
69°	15.3	15.3	15.3	15.3
70°	15.3	15.3	15.3	15.3
72.5°	13.9	13.9	13.9	13.9
75°	12.5	13.9	13.9	13.9
77.5°	12.5	12.5	12.5	12.5
80°	11.1	11.1	12.5	12.5
82.5°	11.1	11.1	11.1	11.1
85°	9.8	9.8	11.1	11.1
87.5°	8.4	8.4	9.8	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)