

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: P150694

Luminaire Tested: **TLM-F06-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150694
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7843.7 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

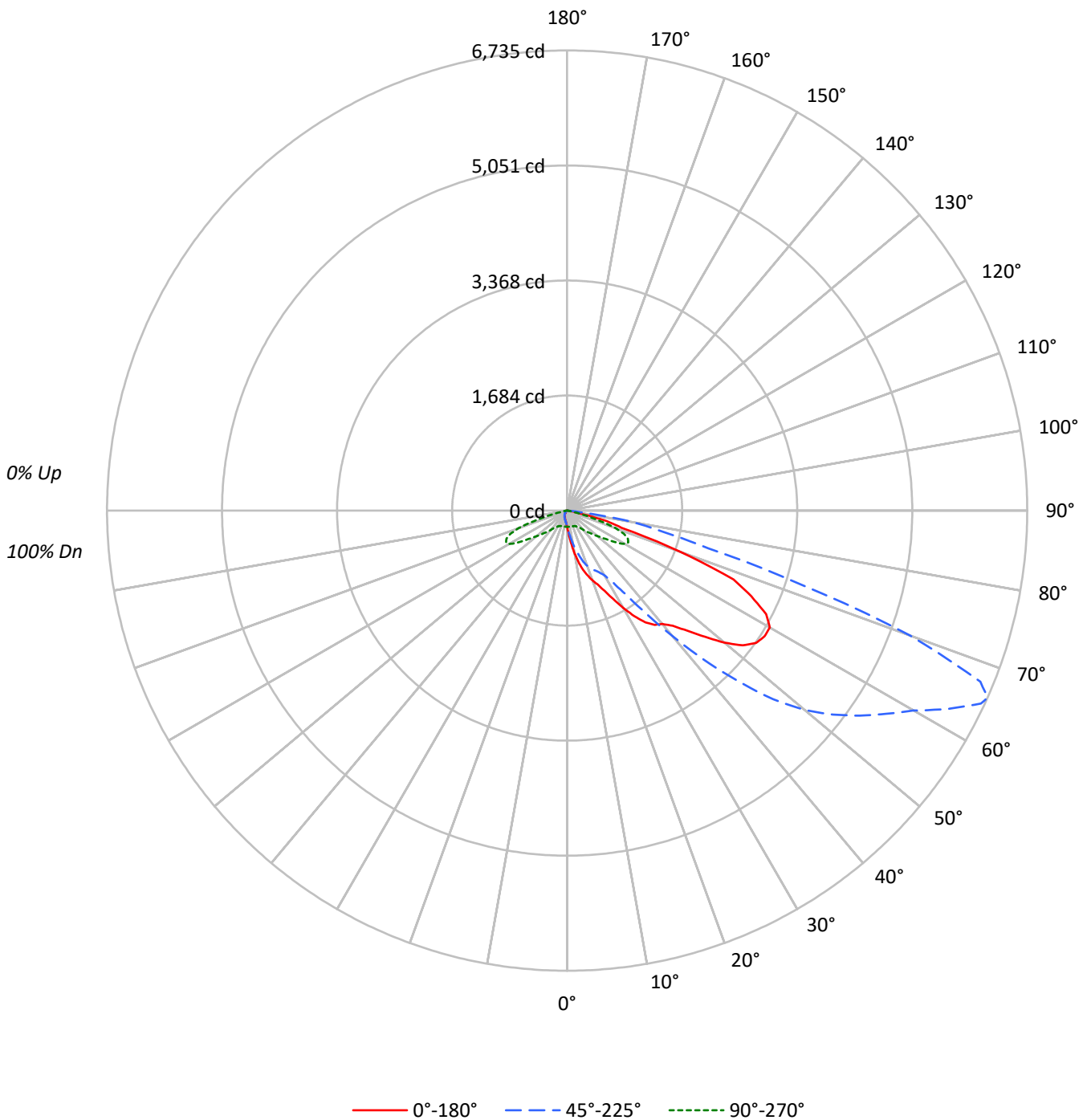
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

Luminous Intensity Polar Plot





TEST NUMBER: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

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	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76					76			
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55					55			
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40					40			
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30					30			
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23					23			
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17					17			
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14					14			
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11					11			
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9					9			
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7					7			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2549	2549	2549
5°	4269	2566	1874
10°	7005	2588	1566
15°	9999	2697	1327
20°	12438	2790	1140
25°	15385	2955	967
30°	20448	3308	825
35°	26236	3913	694
40°	30428	5149	551
45°	37784	6956	413
50°	50327	9697	404
55°	63391	14178	452
60°	73724	21036	487
65°	75780	24984	537
70°	55384	23989	617
75°	24961	10443	815
80°	4488	2619	1215
85°	371	2328	2235



TEST NUMBER: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.3
10°-20°	112.4	1.4
20°-30°	242.4	3.1
30°-40°	517.6	6.6
40°-50°	1144.7	14.6
50°-60°	1939.9	24.7
60°-70°	2588.6	33.0
70°-80°	1140.3	14.5
80°-90°	131.3	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°	381.3	4.9
0°-40°	898.9	11.5
0°-60°	3983.5	50.8
0°-90°	7843.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7843.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	237	237	237	237	237	
5°	395	335	238	180	173	45
15°	897	685	242	128	119	256
25°	1295	967	249	94	81	620
35°	1997	1496	298	63	53	1238
45°	2482	3521	457	38	27	1962
55°	3378	5233	756	18	24	2977
65°	2975	6680	981	14	21	2840
75°	600	2138	251	11	20	662
85°	3	45	19	9	18	18
90°	0	0	0	0	0	



TEST NUMBER: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	298.6	297.1	291.0	291.0	282.0	276.0	268.4	260.9	260.9	259.4	257.9
5°	395.1	386.0	384.5	367.9	354.4	334.8	316.7	292.5	289.5	286.5	285.0
7.5°	502.2	500.7	487.1	467.5	440.3	404.1	367.9	328.7	322.7	319.7	313.7
10°	640.9	633.4	615.3	582.1	541.4	493.1	434.3	372.5	364.9	358.9	355.9
12.5°	773.6	760.0	749.5	707.2	656.0	585.1	514.2	425.3	419.2	411.7	399.6
15°	897.3	885.2	867.1	830.9	773.6	684.6	601.7	493.1	478.0	467.5	458.4
17.5°	993.8	986.2	965.1	924.4	862.6	784.2	684.6	562.5	550.4	536.8	520.3
20°	1085.8	1075.2	1042.0	986.2	919.9	859.6	782.6	653.0	636.4	619.8	601.7
22.5°	1173.2	1162.7	1108.4	1016.4	945.5	919.9	892.7	755.5	729.9	716.3	698.2
25°	1295.4	1272.7	1188.3	1042.0	947.0	966.6	1013.4	888.2	864.1	844.5	815.8
27.5°	1459.7	1429.6	1296.9	1079.7	953.0	1017.9	1152.1	1049.6	1023.9	1001.3	969.6
30°	1645.2	1625.6	1467.3	1170.2	996.8	1093.3	1307.4	1254.6	1224.5	1197.3	1159.6
32.5°	1832.2	1805.1	1648.2	1342.1	1114.4	1239.6	1502.0	1492.9	1453.7	1428.1	1387.3
35°	1996.6	1983.0	1866.9	1624.1	1382.8	1495.9	1761.3	1771.9	1737.2	1710.1	1664.8
37.5°	2108.2	2108.2	2085.5	1927.2	1809.6	1894.0	2142.8	2144.4	2109.7	2047.8	2025.2
40°	2165.5	2182.1	2263.5	2293.6	2287.6	2396.2	2643.5	2616.4	2587.7	2556.0	2480.6
42.5°	2283.1	2298.2	2471.6	2679.7	2815.4	2958.7	3129.1	3120.0	3085.3	3028.0	2958.7
45°	2482.1	2501.8	2708.3	3038.6	3317.6	3521.1	3629.7	3587.5	3552.8	3498.5	3462.3
47.5°	2735.5	2773.2	3006.9	3415.6	3751.9	4088.2	4201.3	4089.7	4059.5	4017.3	3958.5
50°	3005.4	3041.6	3290.4	3757.9	4137.9	4539.0	4727.5	4539.0	4495.3	4481.7	4415.4
52.5°	3239.2	3269.3	3509.1	4021.8	4433.5	4904.0	5178.4	4929.6	4897.9	4852.7	4804.4
55°	3377.9	3402.0	3626.7	4148.5	4634.0	5232.7	5614.2	5395.6	5348.8	5330.7	5261.4
57.5°	3424.6	3448.8	3650.8	4165.1	4742.6	5532.8	6143.5	6151.1	6095.3	6030.4	6009.3
60°	3424.6	3451.8	3622.2	4124.3	4848.2	5852.5	6849.3	7478.1	7357.5	7345.4	7268.5
62.5°	3282.9	3308.5	3480.4	3999.2	4989.9	6283.8	7832.5	8942.4	8907.7	8829.3	8702.6
65°	2975.3	2990.3	3159.2	3679.5	4935.6	6680.4	8684.5	9916.5	9860.7	9706.9	9544.0
66°	2836.5	2848.6	3006.9	3497.0	4757.7	6734.7	8835.3	10038.7	9946.7	9817.0	9633.0
67.5°	2636.0	2657.1	2768.7	3157.7	4330.9	6546.2	8740.3	9952.7	9872.8	9716.0	9532.0
70°	1759.8	1744.7	2138.3	2423.3	3299.5	5333.7	7841.5	8936.3	8937.8	8863.9	8790.1
72.5°	835.4	844.5	959.1	1491.4	2159.4	3563.4	6241.6	7132.8	7235.3	7102.6	7010.6
75°	600.2	613.8	683.1	912.3	1287.8	2138.3	4045.9	4988.4	4991.4	4756.2	4546.6
77.5°	174.9	182.5	256.4	562.5	965.1	1443.1	2323.8	2773.2	2708.3	2539.5	2381.1
80°	72.4	72.4	75.4	179.5	387.6	980.2	1625.6	2135.3	2127.8	2062.9	1969.4
82.5°	27.1	28.7	36.2	73.9	92.0	241.3	1084.2	1853.3	1848.8	1756.8	1690.5
85°	3.0	3.0	9.0	31.7	34.7	45.2	217.2	817.3	812.8	817.3	716.3
87.5°	0.0	0.0	1.5	3.0	4.5	6.0	9.0	31.7	34.7	33.2	30.2
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: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	257.9	254.8	254.8	253.3	253.3	253.3	251.8	250.3	250.3	248.8	247.3
5°	282.0	279.0	277.5	274.5	272.9	271.4	268.4	266.9	263.9	262.4	260.9
7.5°	310.6	304.6	303.1	298.6	294.1	291.0	288.0	283.5	280.5	274.5	272.9
10°	346.8	339.3	333.3	327.2	322.7	315.2	310.6	304.6	298.6	294.1	289.5
12.5°	393.6	383.0	374.0	367.9	357.4	348.3	339.3	334.8	322.7	316.7	309.1
15°	444.9	432.8	422.2	410.2	402.6	387.6	375.5	361.9	355.9	345.3	333.3
17.5°	511.2	491.6	475.0	463.0	447.9	432.8	419.2	405.6	387.6	375.5	360.4
20°	582.1	565.5	542.9	521.8	503.7	485.6	466.0	447.9	431.3	411.7	393.6
22.5°	672.6	648.4	621.3	600.2	576.1	556.4	529.3	505.2	478.0	452.4	431.3
25°	787.2	755.5	729.9	699.7	671.1	640.9	607.7	577.6	542.9	518.7	482.6
27.5°	928.9	898.8	864.1	824.9	796.2	751.0	707.2	669.5	628.8	591.1	550.4
30°	1109.9	1066.1	1030.0	992.3	935.0	891.2	839.9	788.7	732.9	695.2	633.4
32.5°	1327.0	1280.3	1226.0	1171.7	1118.9	1057.1	993.8	930.4	868.6	799.2	735.9
35°	1592.4	1536.6	1474.8	1416.0	1334.6	1268.2	1188.3	1100.8	1031.5	951.5	871.6
37.5°	1943.8	1851.8	1797.5	1735.7	1625.6	1535.1	1446.2	1358.7	1236.5	1152.1	1039.0
40°	2384.1	2329.8	2240.9	2141.3	2041.8	1922.7	1802.0	1685.9	1544.2	1426.6	1295.4
42.5°	2901.4	2821.4	2731.0	2587.7	2486.7	2346.4	2209.2	2055.4	1882.0	1731.2	1577.4
45°	3386.9	3291.9	3222.6	3079.3	2973.8	2807.9	2642.0	2479.1	2278.6	2084.0	1906.1
47.5°	3911.7	3833.3	3718.7	3602.6	3495.5	3308.5	3129.1	2931.5	2720.4	2489.7	2259.0
50°	4373.2	4311.3	4232.9	4092.7	3973.5	3816.7	3605.6	3390.0	3123.0	2893.8	2631.4
52.5°	4765.2	4717.0	4606.9	4507.4	4400.3	4252.5	4064.0	3857.4	3569.4	3317.6	3019.0
55°	5228.2	5193.5	5097.0	5035.2	4940.2	4798.4	4622.0	4430.5	4125.9	3851.4	3513.6
57.5°	5986.7	5959.6	5875.1	5849.5	5756.0	5632.3	5415.2	5210.1	4854.2	4513.4	4127.4
60°	7242.9	7188.6	7064.9	7001.6	6804.0	6638.2	6356.2	6074.2	5644.4	5210.1	4745.6
62.5°	8588.0	8435.7	8200.4	7998.4	7717.9	7429.9	7052.9	6621.6	6117.9	5602.2	5068.3
65°	9313.3	9054.0	8756.9	8435.7	8072.3	7648.5	7173.5	6656.3	6114.9	5570.5	5006.5
66°	9396.3	9103.7	8788.5	8431.2	8027.0	7576.1	7093.6	6550.7	5988.2	5457.4	4893.4
67.5°	9292.2	8986.1	8652.8	8256.2	7818.9	7351.4	6844.8	6280.8	5739.4	5201.0	4652.1
70°	8563.9	8259.2	7962.2	7544.5	7078.5	6608.0	6128.5	5498.1	4985.4	4490.8	4002.2
72.5°	6838.7	6632.1	6338.1	5980.7	5526.8	4974.8	4575.2	4011.2	3566.4	3086.8	2708.3
75°	4273.6	3982.6	3619.2	3163.8	2816.9	2369.0	2135.3	1707.0	1453.7	1232.0	1017.9
77.5°	2185.1	1966.4	1711.6	1455.2	1209.4	965.1	746.5	527.8	355.9	247.3	184.0
80°	1805.1	1612.0	1400.9	1167.2	950.0	737.4	530.8	361.9	230.7	150.8	117.6
82.5°	1491.4	1328.5	1140.0	922.9	734.4	579.1	402.6	262.4	162.9	105.6	82.9
85°	634.9	576.1	444.9	352.9	265.4	196.0	137.2	92.0	64.8	52.8	48.3
87.5°	27.1	30.2	28.7	22.6	16.6	16.6	15.1	12.1	12.1	12.1	12.1
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: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	247.3	245.8	244.3	244.3	242.8	241.3	232.2	224.7	215.6	209.6	203.6
5°	257.9	256.4	253.3	251.8	248.8	247.3	227.7	211.1	197.5	187.0	179.5
7.5°	268.4	266.9	262.4	257.9	256.4	253.3	221.7	200.6	182.5	170.4	162.9
10°	282.0	277.5	272.9	266.9	262.4	257.9	215.6	188.5	168.9	158.3	150.8
12.5°	301.6	294.1	286.5	279.0	272.9	265.4	212.6	177.9	158.3	146.3	138.7
15°	324.2	313.7	304.6	295.6	285.0	277.5	206.6	168.9	149.3	137.2	128.2
17.5°	345.3	333.3	319.7	306.1	295.6	285.0	200.6	159.8	140.2	128.2	119.1
20°	375.5	357.4	340.8	324.2	309.1	295.6	191.5	150.8	132.7	119.1	110.1
22.5°	408.7	387.6	366.4	343.8	324.2	306.1	184.0	143.3	125.2	111.6	101.0
25°	450.9	425.3	396.6	367.9	345.3	321.2	176.4	135.7	117.6	104.1	93.5
27.5°	509.7	473.5	441.8	405.6	371.0	343.8	170.4	129.7	110.1	96.5	86.0
30°	589.6	536.8	487.1	447.9	407.2	367.9	164.4	122.1	104.1	89.0	76.9
32.5°	678.6	616.8	559.5	500.7	449.4	404.1	158.3	116.1	96.5	81.4	70.9
35°	788.7	710.3	633.4	565.5	503.7	443.3	152.3	110.1	90.5	73.9	63.3
37.5°	947.0	849.0	748.0	660.5	580.6	500.7	147.8	104.1	82.9	66.4	55.8
40°	1164.2	1037.5	913.8	794.7	690.7	591.1	141.8	98.0	76.9	60.3	49.8
42.5°	1399.4	1245.6	1082.7	948.5	805.3	680.1	135.7	92.0	70.9	54.3	43.7
45°	1692.0	1500.4	1302.9	1120.4	945.5	784.2	129.7	86.0	63.3	48.3	37.7
47.5°	2011.7	1767.4	1544.2	1315.0	1106.9	913.8	122.1	81.4	57.3	42.2	33.2
50°	2340.4	2082.5	1800.5	1539.7	1292.3	1043.5	114.6	73.9	51.3	37.7	27.1
52.5°	2694.8	2390.2	2102.1	1777.9	1489.9	1213.9	107.1	67.9	46.7	33.2	22.6
55°	3145.7	2804.9	2467.1	2103.6	1756.8	1411.5	99.5	60.3	40.7	28.7	18.1
57.5°	3712.7	3308.5	2893.8	2483.7	2062.9	1670.8	93.5	52.8	34.7	24.1	15.1
60°	4248.0	3776.0	3273.8	2801.8	2326.8	1869.9	84.4	46.7	30.2	19.6	15.1
62.5°	4525.5	3987.1	3445.8	2925.5	2418.8	1940.8	75.4	39.2	25.6	16.6	13.6
65°	4457.6	3908.7	3383.9	2859.1	2363.0	1895.5	66.4	34.7	22.6	15.1	13.6
66°	4359.6	3816.7	3288.9	2789.8	2316.3	1847.3	61.8	33.2	21.1	15.1	12.1
67.5°	4145.5	3620.7	3117.0	2652.5	2188.1	1755.3	55.8	30.2	19.6	13.6	12.1
70°	3540.8	3064.2	2661.6	2248.4	1869.9	1479.3	45.2	25.6	16.6	12.1	12.1
72.5°	2343.4	2019.2	1750.8	1506.5	1259.2	977.2	37.7	21.1	13.6	12.1	10.6
75°	883.7	799.2	686.1	616.8	538.4	472.0	30.2	13.6	10.6	10.6	10.6
77.5°	156.8	144.8	128.2	117.6	108.6	99.5	24.1	9.0	9.0	10.6	10.6
80°	105.6	98.0	89.0	81.4	75.4	67.9	16.6	7.5	9.0	9.0	10.6
82.5°	75.4	70.9	66.4	60.3	55.8	49.8	10.6	7.5	9.0	9.0	9.0
85°	45.2	42.2	39.2	36.2	31.7	30.2	7.5	7.5	7.5	9.0	9.0
87.5°	12.1	10.6	12.1	12.1	9.0	10.6	6.0	6.0	6.0	7.5	7.5
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: P150694

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	236.8	236.8	236.8	236.8	236.8
2.5°	200.6	200.6	197.5	202.1	202.1
5°	173.4	173.4	171.9	173.4	173.4
7.5°	158.3	156.8	156.8	156.8	158.3
10°	144.8	143.3	143.3	143.3	143.3
12.5°	132.7	131.2	129.7	131.2	131.2
15°	122.1	119.1	119.1	119.1	119.1
17.5°	113.1	110.1	108.6	108.6	108.6
20°	104.1	99.5	99.5	99.5	99.5
22.5°	95.0	90.5	90.5	90.5	90.5
25°	86.0	81.4	81.4	81.4	81.4
27.5°	78.4	73.9	73.9	73.9	73.9
30°	69.4	66.4	66.4	67.9	66.4
32.5°	63.3	58.8	58.8	60.3	60.3
35°	55.8	52.8	52.8	52.8	52.8
37.5°	48.3	45.2	45.2	45.2	45.2
40°	42.2	39.2	37.7	39.2	39.2
42.5°	36.2	33.2	31.7	31.7	31.7
45°	31.7	27.1	25.6	27.1	27.1
47.5°	25.6	22.6	22.6	24.1	24.1
50°	19.6	19.6	21.1	24.1	24.1
52.5°	18.1	18.1	21.1	24.1	24.1
55°	16.6	18.1	21.1	22.6	24.1
57.5°	15.1	18.1	21.1	22.6	22.6
60°	15.1	16.6	19.6	22.6	22.6
62.5°	13.6	15.1	18.1	21.1	21.1
65°	13.6	15.1	18.1	21.1	21.1
66°	13.6	15.1	18.1	21.1	21.1
67.5°	13.6	15.1	18.1	21.1	21.1
70°	13.6	15.1	18.1	19.6	19.6
72.5°	12.1	13.6	16.6	19.6	19.6
75°	12.1	13.6	16.6	19.6	19.6
77.5°	12.1	13.6	16.6	19.6	19.6
80°	12.1	13.6	16.6	18.1	19.6
82.5°	10.6	13.6	15.1	18.1	18.1
85°	10.6	12.1	15.1	16.6	18.1
87.5°	9.0	10.6	12.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)