

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: P150696

Luminaire Tested: **TLM-F06-LED-E1-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150696
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-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8812.1 lumens
Efficiency: N/A
Efficacy: 56.3 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

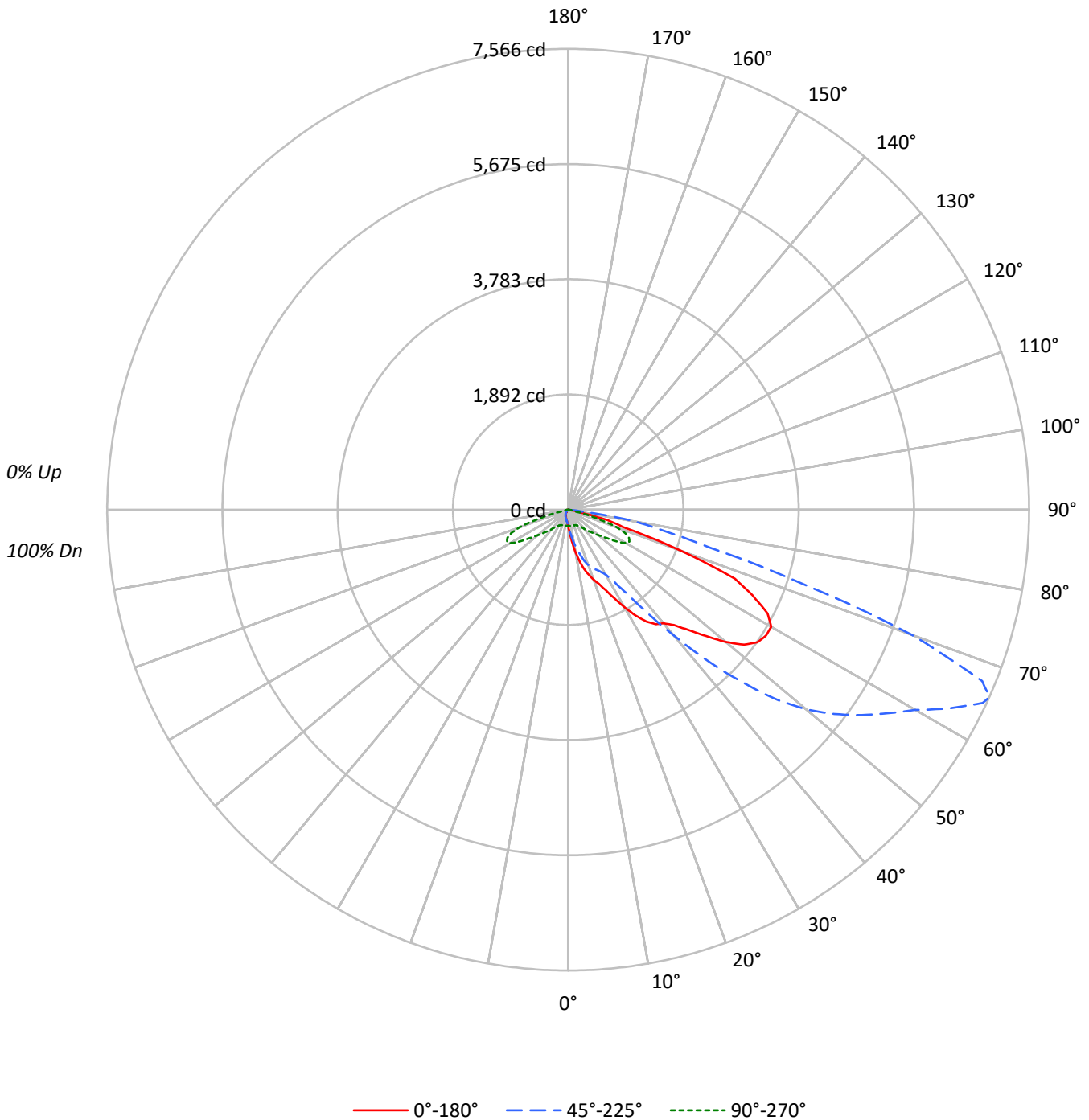
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

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	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°	2863	2863	2863
5°	4796	2883	2105
10°	7870	2907	1759
15°	11233	3030	1491
20°	13972	3135	1281
25°	17284	3320	1087
30°	22973	3717	926
35°	29475	4397	779
40°	34184	5785	618
45°	42449	7814	464
50°	56540	10895	454
55°	71216	15928	509
60°	82826	23633	547
65°	85135	28067	604
70°	62222	26952	692
75°	28043	11732	915
80°	5040	2938	1364
85°	420	2618	2507



TEST NUMBER: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.3
10°-20°	126.3	1.4
20°-30°	272.3	3.1
30°-40°	581.5	6.6
40°-50°	1286.0	14.6
50°-60°	2179.4	24.7
60°-70°	2908.2	33.0
70°-80°	1281.0	14.5
80°-90°	147.6	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°	428.3	4.9
0°-40°	1009.8	11.5
0°-60°	4475.2	50.8
0°-90°	8812.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8812.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	266	266	266	266	266	
5°	444	376	267	202	195	51
15°	1008	769	272	144	134	288
25°	1455	1086	280	105	92	697
35°	2243	1681	335	71	59	1391
45°	2789	3956	513	42	30	2204
55°	3795	5879	849	20	27	3344
65°	3343	7505	1102	15	24	3191
75°	674	2402	282	12	22	744
85°	3	51	21	10	20	20
90°	0	0	0	0	0	



TEST NUMBER: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
2.5°	335.4	333.7	327.0	327.0	316.8	310.0	301.6	293.1	293.1	291.4	289.7
5°	443.9	433.7	432.0	413.4	398.1	376.1	355.8	328.7	325.3	321.9	320.2
7.5°	564.2	562.5	547.2	525.2	494.7	454.0	413.4	369.3	362.5	359.2	352.4
10°	720.0	711.5	691.2	653.9	608.2	554.0	487.9	418.5	410.0	403.2	399.8
12.5°	869.1	853.9	842.0	794.6	737.0	657.3	577.7	477.8	471.0	462.5	449.0
15°	1008.0	994.5	974.1	933.5	869.1	769.1	676.0	554.0	537.0	525.2	515.0
17.5°	1116.4	1108.0	1084.3	1038.5	969.1	881.0	769.1	631.9	618.4	603.1	584.5
20°	1219.8	1207.9	1170.7	1108.0	1033.4	965.7	879.3	733.6	714.9	696.3	676.0
22.5°	1318.0	1306.2	1245.2	1141.9	1062.2	1033.4	1002.9	848.8	820.0	804.7	784.4
25°	1455.3	1429.9	1335.0	1170.7	1063.9	1086.0	1138.5	997.9	970.7	948.7	916.5
27.5°	1639.9	1606.1	1457.0	1213.0	1070.7	1143.6	1294.3	1179.1	1150.3	1124.9	1089.3
30°	1848.3	1826.3	1648.4	1314.7	1119.8	1228.3	1468.8	1409.5	1375.7	1345.2	1302.8
32.5°	2058.4	2027.9	1851.7	1507.8	1252.0	1392.6	1687.4	1677.2	1633.2	1604.4	1558.6
35°	2243.1	2227.8	2097.4	1824.6	1553.5	1680.6	1978.8	1990.6	1951.7	1921.2	1870.3
37.5°	2368.4	2368.4	2343.0	2165.1	2033.0	2127.9	2407.4	2409.1	2370.1	2300.7	2275.2
40°	2432.8	2451.4	2542.9	2576.8	2570.0	2692.0	2969.8	2939.4	2907.2	2871.6	2786.9
42.5°	2564.9	2581.9	2776.7	3010.5	3163.0	3323.9	3515.4	3505.2	3466.2	3401.9	3323.9
45°	2788.6	2810.6	3042.7	3413.7	3727.1	3955.8	4077.8	4030.4	3991.4	3930.4	3889.8
47.5°	3073.2	3115.5	3378.1	3837.3	4215.0	4592.8	4719.9	4594.5	4560.7	4513.2	4447.1
50°	3376.4	3417.1	3696.6	4221.8	4648.8	5099.4	5311.2	5099.4	5050.3	5035.0	4960.5
52.5°	3639.0	3672.9	3942.3	4518.3	4980.8	5509.4	5817.7	5538.2	5502.6	5451.8	5397.6
55°	3794.9	3822.0	4074.4	4660.6	5206.1	5878.7	6307.3	6061.7	6009.2	5988.8	5910.9
57.5°	3847.4	3874.5	4101.5	4679.2	5328.1	6215.8	6902.0	6910.4	6847.8	6774.9	6751.2
60°	3847.4	3877.9	4069.4	4633.5	5446.7	6575.0	7694.8	8401.3	8265.8	8252.2	8165.8
62.5°	3688.2	3717.0	3910.1	4492.9	5605.9	7059.5	8799.4	10046.3	10007.4	9919.3	9776.9
65°	3342.6	3359.5	3549.2	4133.7	5545.0	7505.1	9756.6	11140.7	11078.1	10905.3	10722.3
66°	3186.7	3200.3	3378.1	3928.7	5345.0	7566.1	9926.0	11278.0	11174.6	11028.9	10822.2
67.5°	2961.4	2985.1	3110.5	3547.6	4865.6	7354.3	9819.3	11181.4	11091.6	10915.4	10708.7
70°	1977.1	1960.1	2402.3	2722.5	3706.8	5992.2	8809.6	10039.5	10041.2	9958.2	9875.2
72.5°	938.6	948.7	1077.5	1675.5	2426.0	4003.3	7012.1	8013.3	8128.5	7979.5	7876.1
75°	674.3	689.5	767.5	1025.0	1446.8	2402.3	4545.4	5604.3	5607.6	5343.4	5107.9
77.5°	196.5	205.0	288.0	631.9	1084.3	1621.3	2610.7	3115.5	3042.7	2853.0	2675.1
80°	81.3	81.3	84.7	201.6	435.4	1101.2	1826.3	2398.9	2390.4	2317.6	2212.6
82.5°	30.5	32.2	40.7	83.0	103.3	271.1	1218.1	2082.1	2077.0	1973.7	1899.1
85°	3.4	3.4	10.2	35.6	39.0	50.8	244.0	918.2	913.1	918.2	804.7
87.5°	0.0	0.0	1.7	3.4	5.1	6.8	10.2	35.6	39.0	37.3	33.9
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: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
2.5°	289.7	286.3	286.3	284.6	284.6	284.6	282.9	281.2	281.2	279.5	277.8
5°	316.8	313.4	311.7	308.3	306.6	304.9	301.6	299.9	296.5	294.8	293.1
7.5°	349.0	342.2	340.5	335.4	330.4	327.0	323.6	318.5	315.1	308.3	306.6
10°	389.7	381.2	374.4	367.6	362.5	354.1	349.0	342.2	335.4	330.4	325.3
12.5°	442.2	430.3	420.1	413.4	401.5	391.3	381.2	376.1	362.5	355.8	347.3
15°	499.8	486.2	474.4	460.8	452.3	435.4	421.8	406.6	399.8	388.0	374.4
17.5°	574.3	552.3	533.7	520.1	503.2	486.2	471.0	455.7	435.4	421.8	404.9
20°	653.9	635.3	609.9	586.2	565.8	545.5	523.5	503.2	484.5	462.5	442.2
22.5°	755.6	728.5	698.0	674.3	647.2	625.1	594.6	567.5	537.0	508.2	484.5
25°	884.3	848.8	820.0	786.1	753.9	720.0	682.7	648.9	609.9	582.8	542.1
27.5°	1043.6	1009.7	970.7	926.7	894.5	843.7	794.6	752.2	706.5	664.1	618.4
30°	1246.9	1197.8	1157.1	1114.8	1050.4	1001.2	943.6	886.0	823.4	781.0	711.5
32.5°	1490.9	1438.3	1377.3	1316.4	1257.1	1187.6	1116.4	1045.3	975.8	897.9	826.7
35°	1789.0	1726.3	1656.9	1590.8	1499.3	1424.8	1335.0	1236.7	1158.8	1069.0	979.2
37.5°	2183.8	2080.4	2019.4	1950.0	1826.3	1724.6	1624.7	1526.4	1389.2	1294.3	1167.3
40°	2678.5	2617.5	2517.5	2405.7	2293.9	2160.0	2024.5	1894.1	1734.8	1602.7	1455.3
42.5°	3259.5	3169.8	3068.1	2907.2	2793.7	2636.1	2481.9	2309.1	2114.3	1944.9	1772.1
45°	3805.1	3698.3	3620.4	3459.5	3340.9	3154.5	2968.2	2785.2	2559.9	2341.3	2141.4
47.5°	4394.6	4306.5	4177.8	4047.3	3927.0	3717.0	3515.4	3293.4	3056.2	2797.0	2537.8
50°	4913.0	4843.6	4755.5	4597.9	4464.1	4287.9	4050.7	3808.5	3508.6	3251.1	2956.3
52.5°	5353.5	5299.3	5175.6	5063.8	4943.5	4777.5	4565.7	4333.6	4010.1	3727.1	3391.7
55°	5873.6	5834.7	5726.2	5656.8	5550.0	5390.8	5192.6	4977.4	4635.2	4326.9	3947.4
57.5°	6725.8	6695.3	6600.4	6571.6	6466.6	6327.7	6083.7	5853.3	5453.5	5070.6	4636.9
60°	8137.0	8076.0	7937.1	7865.9	7644.0	7457.7	7140.8	6824.0	6341.2	5853.3	5331.5
62.5°	9648.2	9477.1	9212.8	8985.8	8670.7	8347.1	7923.5	7439.0	6873.2	6293.8	5694.0
65°	10463.1	10171.7	9837.9	9477.1	9068.8	8592.7	8059.1	7478.0	6869.8	6258.2	5624.6
66°	10556.3	10227.6	9873.5	9472.0	9018.0	8511.4	7969.3	7359.4	6727.5	6131.1	5497.5
67.5°	10439.4	10095.4	9721.0	9275.5	8784.2	8259.0	7689.8	7056.1	6447.9	5843.1	5226.5
70°	9621.1	9278.9	8945.1	8475.8	7952.3	7423.8	6885.0	6176.9	5600.9	5045.2	4496.3
72.5°	7683.0	7450.9	7120.5	6719.0	6209.1	5589.0	5140.1	4506.4	4006.7	3467.9	3042.7
75°	4801.2	4474.3	4066.0	3554.3	3164.7	2661.5	2398.9	1917.8	1633.2	1384.1	1143.6
77.5°	2454.8	2209.2	1922.9	1634.9	1358.7	1084.3	838.6	593.0	399.8	277.8	206.7
80°	2027.9	1811.0	1573.9	1311.3	1067.3	828.4	596.3	406.6	259.2	169.4	132.1
82.5°	1675.5	1492.5	1280.8	1036.8	825.1	650.6	452.3	294.8	183.0	118.6	93.2
85°	713.2	647.2	499.8	396.4	298.2	220.2	154.2	103.3	72.8	59.3	54.2
87.5°	30.5	33.9	32.2	25.4	18.6	18.6	16.9	13.6	13.6	13.6	13.6
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: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
2.5°	277.8	276.1	274.5	274.5	272.8	271.1	260.9	252.4	242.3	235.5	228.7
5°	289.7	288.0	284.6	282.9	279.5	277.8	255.8	237.2	221.9	210.1	201.6
7.5°	301.6	299.9	294.8	289.7	288.0	284.6	249.0	225.3	205.0	191.4	183.0
10°	316.8	311.7	306.6	299.9	294.8	289.7	242.3	211.8	189.7	177.9	169.4
12.5°	338.8	330.4	321.9	313.4	306.6	298.2	238.9	199.9	177.9	164.3	155.9
15°	364.2	352.4	342.2	332.1	320.2	311.7	232.1	189.7	167.7	154.2	144.0
17.5°	388.0	374.4	359.2	343.9	332.1	320.2	225.3	179.6	157.6	144.0	133.8
20°	421.8	401.5	382.9	364.2	347.3	332.1	215.2	169.4	149.1	133.8	123.7
22.5°	459.1	435.4	411.7	386.3	364.2	343.9	206.7	160.9	140.6	125.4	113.5
25°	506.6	477.8	445.6	413.4	388.0	360.9	198.2	152.5	132.1	116.9	105.0
27.5°	572.6	532.0	496.4	455.7	416.8	386.3	191.4	145.7	123.7	108.4	96.6
30°	662.4	603.1	547.2	503.2	457.4	413.4	184.7	137.2	116.9	100.0	86.4
32.5°	762.4	692.9	628.5	562.5	504.9	454.0	177.9	130.4	108.4	91.5	79.6
35°	886.0	797.9	711.5	635.3	565.8	498.1	171.1	123.7	101.6	83.0	71.2
37.5°	1063.9	953.8	840.3	742.0	652.2	562.5	166.0	116.9	93.2	74.5	62.7
40°	1307.9	1165.6	1026.7	892.8	775.9	664.1	159.3	110.1	86.4	67.8	55.9
42.5°	1572.2	1399.4	1216.4	1065.6	904.7	764.1	152.5	103.3	79.6	61.0	49.1
45°	1900.8	1685.7	1463.7	1258.8	1062.2	881.0	145.7	96.6	71.2	54.2	42.4
47.5°	2260.0	1985.5	1734.8	1477.3	1243.5	1026.7	137.2	91.5	64.4	47.4	37.3
50°	2629.3	2339.6	2022.8	1729.7	1451.9	1172.4	128.8	83.0	57.6	42.4	30.5
52.5°	3027.4	2685.2	2361.6	1997.4	1673.8	1363.8	120.3	76.2	52.5	37.3	25.4
55°	3534.0	3151.1	2771.6	2363.3	1973.7	1585.7	111.8	67.8	45.7	32.2	20.3
57.5°	4171.0	3717.0	3251.1	2790.3	2317.6	1877.1	105.0	59.3	39.0	27.1	16.9
60°	4772.4	4242.2	3678.0	3147.7	2614.1	2100.7	94.9	52.5	33.9	22.0	16.9
62.5°	5084.1	4479.3	3871.1	3286.7	2717.4	2180.4	84.7	44.0	28.8	18.6	15.2
65°	5007.9	4391.2	3801.7	3212.1	2654.7	2129.5	74.5	39.0	25.4	16.9	15.2
66°	4897.8	4287.9	3694.9	3134.2	2602.2	2075.3	69.5	37.3	23.7	16.9	13.6
67.5°	4657.2	4067.7	3501.8	2980.0	2458.2	1972.0	62.7	33.9	22.0	15.2	13.6
70°	3977.9	3442.5	2990.2	2526.0	2100.7	1662.0	50.8	28.8	18.6	13.6	13.6
72.5°	2632.7	2268.5	1966.9	1692.5	1414.6	1097.8	42.4	23.7	15.2	13.6	11.9
75°	992.8	897.9	770.8	692.9	604.8	530.3	33.9	15.2	11.9	11.9	11.9
77.5°	176.2	162.6	144.0	132.1	122.0	111.8	27.1	10.2	10.2	11.9	11.9
80°	118.6	110.1	100.0	91.5	84.7	76.2	18.6	8.5	10.2	10.2	11.9
82.5°	84.7	79.6	74.5	67.8	62.7	55.9	11.9	8.5	10.2	10.2	10.2
85°	50.8	47.4	44.0	40.7	35.6	33.9	8.5	8.5	8.5	10.2	10.2
87.5°	13.6	11.9	13.6	13.6	10.2	11.9	6.8	6.8	6.8	8.5	8.5
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: P150696

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	266.0	266.0	266.0	266.0	266.0
2.5°	225.3	225.3	221.9	227.0	227.0
5°	194.8	194.8	193.1	194.8	194.8
7.5°	177.9	176.2	176.2	176.2	177.9
10°	162.6	160.9	160.9	160.9	160.9
12.5°	149.1	147.4	145.7	147.4	147.4
15°	137.2	133.8	133.8	133.8	133.8
17.5°	127.1	123.7	122.0	122.0	122.0
20°	116.9	111.8	111.8	111.8	111.8
22.5°	106.7	101.6	101.6	101.6	101.6
25°	96.6	91.5	91.5	91.5	91.5
27.5°	88.1	83.0	83.0	83.0	83.0
30°	77.9	74.5	74.5	76.2	74.5
32.5°	71.2	66.1	66.1	67.8	67.8
35°	62.7	59.3	59.3	59.3	59.3
37.5°	54.2	50.8	50.8	50.8	50.8
40°	47.4	44.0	42.4	44.0	44.0
42.5°	40.7	37.3	35.6	35.6	35.6
45°	35.6	30.5	28.8	30.5	30.5
47.5°	28.8	25.4	25.4	27.1	27.1
50°	22.0	22.0	23.7	27.1	27.1
52.5°	20.3	20.3	23.7	27.1	27.1
55°	18.6	20.3	23.7	25.4	27.1
57.5°	16.9	20.3	23.7	25.4	25.4
60°	16.9	18.6	22.0	25.4	25.4
62.5°	15.2	16.9	20.3	23.7	23.7
65°	15.2	16.9	20.3	23.7	23.7
66°	15.2	16.9	20.3	23.7	23.7
67.5°	15.2	16.9	20.3	23.7	23.7
70°	15.2	16.9	20.3	22.0	22.0
72.5°	13.6	15.2	18.6	22.0	22.0
75°	13.6	15.2	18.6	22.0	22.0
77.5°	13.6	15.2	18.6	22.0	22.0
80°	13.6	15.2	18.6	20.3	22.0
82.5°	11.9	15.2	16.9	20.3	20.3
85°	11.9	13.6	16.9	18.6	20.3
87.5°	10.2	11.9	13.6	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)