

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: P151832

Luminaire Tested: **TLM-E06-LED-E1-SL4-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151832  
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-E06-LED-E1-SL4-HSS-7060  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (126) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12527.6 lumens  
Efficiency: N/A  
Efficacy: 83.2 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

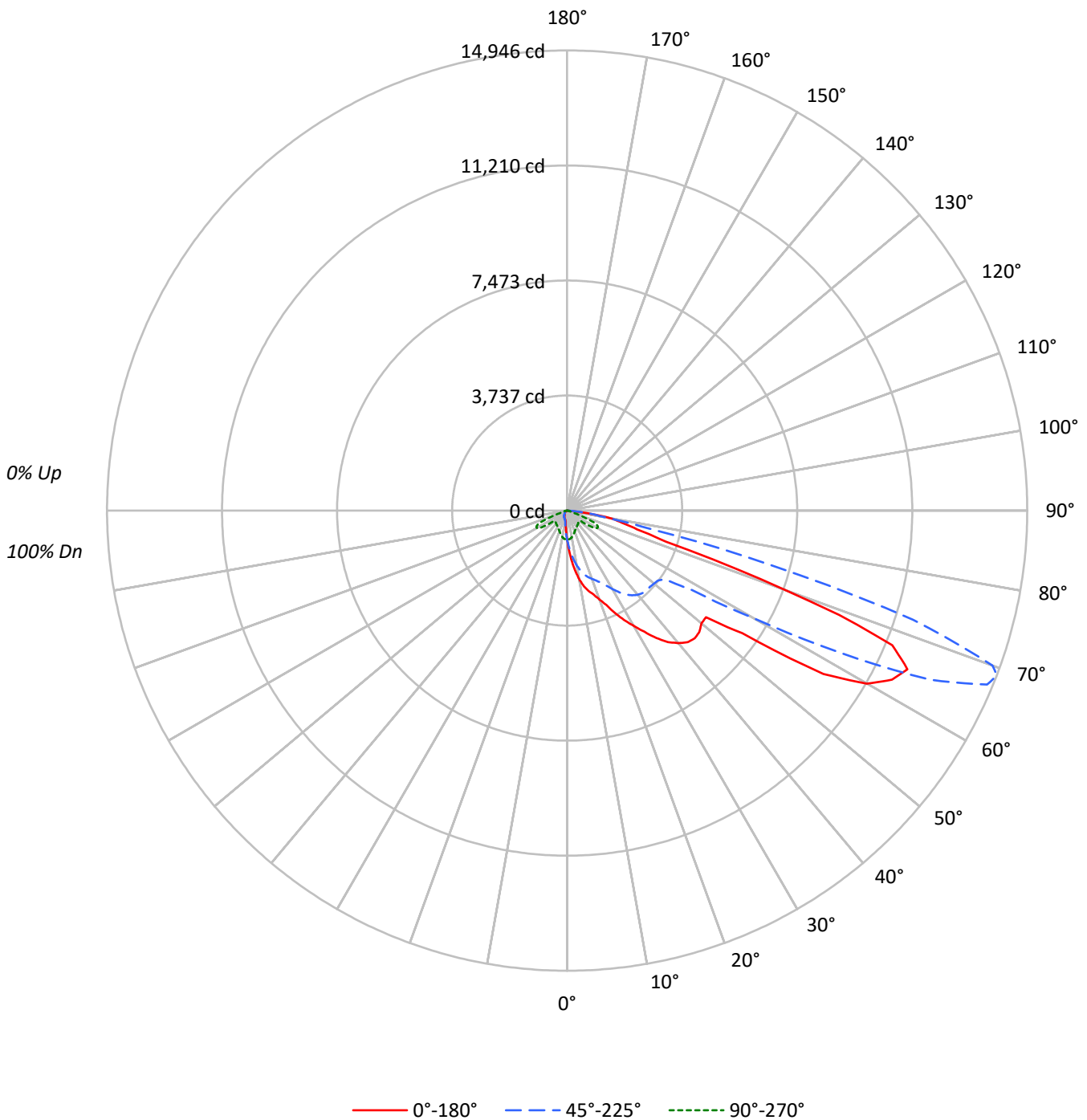
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	10184	10184	10184
5°	17407	10045	5344
10°	24786	9600	3432
15°	30141	8828	3110
20°	35167	8228	2821
25°	43530	7873	2486
30°	53719	7704	2117
35°	66391	7632	1779
40°	78982	7756	1644
45°	89283	8091	1687
50°	95398	8900	1546
55°	130364	15405	925
60°	242061	24432	663
65°	310581	26397	627
70°	234514	10914	711
75°	97637	4184	853
80°	89174	3942	1147
85°	7855	3545	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	0.8
10°-20°	335.3	2.7
20°-30°	641.7	5.1
30°-40°	1067.1	8.5
40°-50°	1444.0	11.5
50°-60°	2258.3	18.0
60°-70°	4642.9	37.1
70°-80°	1868.2	14.9
80°-90°	172.8	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°	1074.2	8.6
0°-40°	2141.3	17.1
0°-60°	5843.6	46.6
0°-90°	12527.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12527.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	946	946	946	946	946	
5°	1611	1371	930	591	495	174
15°	2705	2145	792	294	279	773
25°	3665	2582	663	234	209	1717
35°	5052	3333	581	166	135	3168
45°	5865	3649	532	109	111	4483
55°	6947	3879	821	72	49	7004
65°	12194	13003	1036	35	25	11171
75°	2348	6846	101	14	20	3147
85°	64	275	29	10	16	394
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°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	1262.1	1247.7	1231.3	1231.3	1210.8	1210.8	1198.5	1165.7	1161.6	1143.1	1124.6
5°	1611.0	1598.7	1578.2	1559.7	1543.3	1514.5	1494.0	1455.0	1411.9	1370.9	1333.9
7.5°	1951.7	1945.5	1908.6	1902.4	1875.7	1828.5	1787.5	1730.0	1656.1	1598.7	1530.9
10°	2267.7	2253.3	2245.1	2210.2	2171.2	2119.9	2056.3	1986.5	1900.3	1810.0	1713.6
12.5°	2518.1	2509.9	2472.9	2458.5	2417.5	2366.2	2286.2	2195.9	2109.7	1992.7	1879.8
15°	2704.8	2690.4	2665.8	2643.2	2594.0	2548.8	2475.0	2376.5	2271.8	2144.6	2009.1
17.5°	2860.8	2834.1	2827.9	2793.1	2741.8	2688.4	2606.3	2516.0	2392.9	2265.6	2117.9
20°	3070.1	3033.2	3020.9	2969.5	2910.0	2836.2	2741.8	2628.9	2499.6	2360.0	2208.2
22.5°	3316.4	3289.7	3263.0	3217.9	3141.9	3037.3	2899.8	2776.6	2612.5	2458.5	2294.4
25°	3665.2	3642.7	3599.6	3538.0	3443.6	3318.4	3152.2	2971.6	2778.7	2581.7	2388.8
27.5°	4003.9	3983.3	3952.6	3905.4	3798.6	3661.1	3455.9	3226.1	2981.9	2743.8	2530.4
30°	4322.0	4303.5	4272.7	4225.5	4131.1	3995.7	3763.8	3517.5	3213.8	2936.7	2680.2
32.5°	4664.7	4658.5	4623.6	4555.9	4473.8	4291.2	4038.8	3774.0	3466.2	3146.0	2846.4
35°	5052.5	5005.3	4972.5	4904.8	4765.2	4570.3	4274.8	3985.4	3661.1	3332.8	2998.3
37.5°	5380.9	5335.7	5294.7	5208.5	5038.2	4789.9	4455.3	4137.3	3802.7	3468.2	3127.6
40°	5621.0	5598.4	5549.2	5436.3	5245.5	4949.9	4588.7	4241.9	3905.4	3568.8	3232.2
42.5°	5799.5	5764.7	5709.3	5592.3	5366.5	5030.0	4642.1	4285.0	3952.6	3630.4	3300.0
45°	5865.2	5836.5	5785.2	5657.9	5413.7	5052.5	4640.0	4272.7	3954.6	3648.8	3345.1
47.5°	5826.2	5797.5	5752.3	5633.3	5393.2	5025.9	4603.1	4237.8	3934.1	3655.0	3386.1
50°	5696.9	5680.5	5645.6	5545.1	5329.6	4974.6	4570.3	4219.3	3930.0	3685.8	3443.6
52.5°	5684.6	5674.4	5631.3	5530.7	5311.1	4958.1	4566.2	4229.6	3964.9	3724.8	3484.7
55°	6946.7	6801.0	6474.7	6197.7	5742.1	5200.3	4773.4	4395.8	4112.6	3878.7	3710.4
57.5°	9873.2	9655.7	9226.7	8699.3	7652.7	6624.5	5801.6	5206.5	4913.0	4806.3	4869.9
60°	11244.1	11205.1	11137.3	10887.0	10351.4	9466.8	8481.8	7416.7	6989.8	6952.9	7082.2
62.5°	11894.6	11870.0	11890.5	11859.7	11693.5	11434.9	11151.7	10692.0	10269.3	9996.3	9417.6
65°	12194.2	12210.7	12327.6	12420.0	12440.5	12508.2	12715.5	13288.1	13706.7	13002.8	11395.9
67.5°	11432.9	11529.3	11798.2	12134.7	12528.7	12910.5	13526.1	14732.8	15592.7	14765.7	12483.6
69°	9464.8	9512.0	10168.7	10802.8	11765.3	12438.5	13331.2	14913.4	15880.0	14946.3	12397.4
70°	7451.6	7494.7	8198.6	9060.5	10687.9	11553.9	12721.7	14607.6	15611.2	14706.1	11954.1
72.5°	3361.5	3300.0	3548.3	4010.0	5779.0	7154.0	9196.0	11835.1	12879.7	11781.7	8943.5
75°	2347.7	2321.1	2347.7	2349.8	2624.8	3386.1	4272.7	6415.2	7933.8	6846.2	4272.7
77.5°	1818.3	1799.8	1781.3	1760.8	1793.6	2009.1	2095.3	2275.9	2955.2	2795.1	1629.5
80°	1438.6	1422.2	1467.3	1453.0	1453.0	1477.6	1461.2	1393.5	1266.2	1173.9	1050.7
82.5°	669.0	673.1	673.1	730.6	880.4	1028.2	1075.4	1007.6	894.8	761.4	613.6
85°	63.6	71.8	121.1	186.8	371.5	418.7	420.7	348.9	348.9	275.0	221.6
87.5°	0.0	2.1	2.1	2.1	18.5	51.3	43.1	12.3	6.2	6.2	10.3
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°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	1091.8	1085.6	1061.0	1036.4	1013.8	989.2	966.6	944.0	919.4	900.9	878.3
5°	1276.5	1231.3	1180.0	1130.8	1081.5	1030.2	976.9	929.7	880.4	835.2	792.2
7.5°	1463.2	1375.0	1305.2	1217.0	1136.9	1056.9	983.0	907.1	837.3	771.6	710.1
10°	1621.2	1514.5	1405.8	1292.9	1178.0	1071.3	968.6	878.3	786.0	706.0	630.0
12.5°	1750.5	1615.1	1481.7	1340.1	1210.8	1075.4	948.1	839.4	730.6	640.3	562.3
15°	1867.5	1711.5	1551.5	1387.3	1223.1	1069.2	927.6	792.2	681.3	578.7	490.5
17.5°	1961.9	1783.4	1602.8	1418.1	1241.6	1061.0	900.9	759.3	630.0	523.3	437.1
20°	2044.0	1857.3	1662.3	1455.0	1253.9	1058.9	878.3	718.3	584.9	472.0	387.9
22.5°	2119.9	1933.2	1723.9	1502.2	1272.4	1056.9	857.8	687.5	545.9	433.0	348.9
25°	2206.1	2009.1	1789.5	1551.5	1305.2	1065.1	845.5	662.9	511.0	396.1	318.1
27.5°	2302.6	2095.3	1867.5	1613.0	1348.3	1081.5	841.4	636.2	480.2	361.2	293.5
30°	2438.0	2197.9	1945.5	1674.6	1387.3	1100.0	837.3	619.8	449.4	334.5	268.8
32.5°	2557.1	2298.5	2031.7	1738.2	1430.4	1118.5	835.2	597.2	420.7	307.8	250.4
35°	2682.2	2390.8	2105.6	1799.8	1467.3	1139.0	833.2	580.8	394.0	281.2	231.9
37.5°	2791.0	2468.8	2163.0	1853.1	1508.4	1157.4	835.2	566.4	369.4	258.6	215.5
40°	2883.4	2548.8	2226.6	1902.4	1551.5	1186.2	837.3	552.0	344.8	238.1	201.1
42.5°	2965.4	2624.8	2294.4	1957.8	1600.7	1219.0	849.6	539.7	324.2	219.6	186.8
45°	3029.1	2694.6	2368.3	2035.8	1680.8	1272.4	872.2	531.5	303.7	203.2	174.4
47.5°	3094.7	2797.2	2493.4	2158.9	1797.7	1356.5	911.2	529.5	287.3	190.9	164.2
50°	3185.0	2899.8	2604.3	2284.1	1904.5	1442.7	958.4	531.5	266.8	178.5	153.9
52.5°	3250.7	3004.4	2747.9	2501.6	2158.9	1705.4	1141.0	568.5	256.5	168.3	141.6
55°	3638.6	3595.5	3601.6	3642.7	3377.9	2901.8	1908.6	820.9	301.7	190.9	139.6
57.5°	5130.5	5282.4	5370.6	5368.6	4931.5	4090.1	2563.2	1054.8	336.6	221.6	166.2
60°	7092.4	6977.5	6815.4	6415.2	5834.4	4668.8	2866.9	1134.9	291.4	176.5	151.9
62.5°	8826.6	8153.4	7556.2	6907.7	6146.4	4869.9	2928.5	1128.7	254.5	133.4	106.7
65°	9908.1	8697.3	7732.7	6920.1	6023.2	4701.6	2770.5	1036.4	215.5	108.8	88.2
67.5°	10166.7	8403.8	7039.1	6002.7	5032.0	3659.1	2033.7	779.8	168.3	90.3	78.0
69°	9602.3	7470.0	5832.4	4656.5	3661.1	2427.8	1258.0	492.5	129.3	82.1	71.8
70°	8832.7	6497.3	4750.9	3737.1	2711.0	1705.4	880.4	346.8	104.7	75.9	65.7
72.5°	5682.6	3412.8	2335.4	1625.4	1118.5	679.3	344.8	156.0	80.0	63.6	53.4
75°	2204.1	1262.1	915.3	695.7	543.8	377.6	209.3	100.6	67.7	53.4	41.0
77.5°	1085.6	831.1	679.3	465.9	270.9	168.3	112.9	78.0	55.4	39.0	26.7
80°	857.8	570.5	340.7	211.4	160.1	121.1	86.2	63.6	41.0	24.6	18.5
82.5°	439.2	240.1	176.5	143.7	119.0	94.4	69.8	45.1	26.7	16.4	14.4
85°	137.5	100.6	90.3	88.2	82.1	67.7	49.3	28.7	16.4	10.3	10.3
87.5°	10.3	14.4	18.5	14.4	16.4	14.4	18.5	12.3	8.2	8.2	6.2
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°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	861.9	837.3	814.7	800.4	773.7	763.4	753.2	749.1	730.6	734.7	718.3
5°	753.2	710.1	677.2	644.4	613.6	591.0	572.6	550.0	531.5	523.3	506.9
7.5°	654.7	599.2	556.1	521.3	484.3	455.6	431.0	414.5	398.1	381.7	373.5
10°	568.5	508.9	459.7	424.8	389.9	365.3	346.8	334.5	324.2	318.1	316.0
12.5°	488.4	431.0	385.8	355.0	328.4	316.0	307.8	301.7	299.6	297.6	297.6
15°	426.9	369.4	334.5	311.9	299.6	293.5	291.4	287.3	283.2	281.2	281.2
17.5°	369.4	326.3	301.7	289.4	283.2	279.1	275.0	270.9	266.8	264.7	264.7
20°	330.4	295.5	283.2	275.0	268.8	264.7	258.6	254.5	252.4	250.4	248.3
22.5°	299.6	277.0	268.8	262.7	254.5	248.3	244.2	240.1	236.0	234.0	231.9
25°	277.0	262.7	256.5	248.3	240.1	234.0	227.8	221.6	217.5	215.5	211.4
27.5°	260.6	250.4	242.2	231.9	223.7	217.5	211.4	205.2	201.1	197.0	195.0
30°	246.3	236.0	225.7	217.5	207.3	201.1	192.9	186.8	184.7	180.6	176.5
32.5°	231.9	221.6	211.4	201.1	190.9	182.6	178.5	170.3	166.2	164.2	160.1
35°	215.5	205.2	192.9	184.7	174.4	166.2	160.1	153.9	149.8	145.7	143.7
37.5°	201.1	188.8	176.5	166.2	158.0	149.8	143.7	137.5	133.4	129.3	127.2
40°	184.7	172.4	160.1	149.8	141.6	135.4	129.3	123.1	119.0	117.0	117.0
42.5°	170.3	156.0	143.7	135.4	129.3	121.1	114.9	108.8	106.7	104.7	106.7
45°	156.0	141.6	131.3	123.1	117.0	108.8	102.6	98.5	96.5	98.5	100.6
47.5°	143.7	129.3	119.0	112.9	106.7	100.6	94.4	90.3	90.3	94.4	98.5
50°	131.3	117.0	108.8	104.7	98.5	92.3	84.1	82.1	84.1	88.2	92.3
52.5°	119.0	102.6	96.5	94.4	88.2	82.1	75.9	73.9	75.9	80.0	78.0
55°	106.7	90.3	88.2	86.2	80.0	71.8	65.7	65.7	65.7	63.6	59.5
57.5°	102.6	80.0	78.0	75.9	69.8	61.6	57.5	53.4	51.3	45.1	43.1
60°	106.7	71.8	71.8	67.7	61.6	53.4	47.2	41.0	36.9	32.8	32.8
62.5°	86.2	65.7	63.6	59.5	51.3	43.1	36.9	30.8	28.7	26.7	26.7
65°	69.8	59.5	55.4	49.3	43.1	34.9	28.7	24.6	22.6	22.6	24.6
67.5°	63.6	53.4	47.2	41.0	34.9	26.7	22.6	20.5	20.5	22.6	22.6
69°	59.5	49.3	43.1	36.9	30.8	24.6	20.5	20.5	20.5	20.5	22.6
70°	55.4	47.2	41.0	34.9	26.7	20.5	18.5	18.5	20.5	20.5	22.6
72.5°	43.1	36.9	34.9	28.7	20.5	18.5	16.4	18.5	18.5	20.5	20.5
75°	32.8	26.7	26.7	22.6	16.4	14.4	14.4	16.4	16.4	18.5	18.5
77.5°	22.6	18.5	18.5	16.4	14.4	12.3	12.3	14.4	16.4	16.4	18.5
80°	16.4	14.4	12.3	14.4	12.3	10.3	12.3	14.4	14.4	16.4	16.4
82.5°	12.3	12.3	12.3	12.3	10.3	10.3	12.3	12.3	14.4	16.4	16.4
85°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	12.3	12.3	14.4	14.4
87.5°	6.2	6.2	6.2	8.2	8.2	10.3	10.3	10.3	10.3	12.3	12.3
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: P151832

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-7060

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	946.1	946.1	946.1	946.1
2.5°	714.2	712.1	703.9	706.0
5°	500.7	488.4	496.6	494.6
7.5°	367.3	365.3	363.2	367.3
10°	314.0	314.0	311.9	314.0
12.5°	295.5	295.5	295.5	295.5
15°	281.2	281.2	279.1	279.1
17.5°	264.7	264.7	264.7	262.7
20°	248.3	246.3	246.3	246.3
22.5°	229.8	227.8	227.8	227.8
25°	211.4	209.3	209.3	209.3
27.5°	192.9	190.9	188.8	188.8
30°	174.4	172.4	170.3	170.3
32.5°	156.0	153.9	151.9	151.9
35°	139.6	139.6	137.5	135.4
37.5°	125.2	125.2	125.2	125.2
40°	114.9	117.0	117.0	117.0
42.5°	108.8	110.8	112.9	114.9
45°	104.7	108.8	110.8	110.8
47.5°	102.6	104.7	106.7	106.7
50°	94.4	92.3	92.3	92.3
52.5°	75.9	71.8	69.8	67.7
55°	55.4	53.4	49.3	49.3
57.5°	39.0	39.0	36.9	36.9
60°	30.8	30.8	28.7	30.8
62.5°	26.7	26.7	26.7	26.7
65°	24.6	24.6	24.6	24.6
67.5°	24.6	24.6	24.6	24.6
69°	22.6	22.6	22.6	22.6
70°	22.6	22.6	22.6	22.6
72.5°	20.5	20.5	20.5	20.5
75°	18.5	20.5	20.5	20.5
77.5°	18.5	18.5	18.5	18.5
80°	16.4	16.4	18.5	18.5
82.5°	16.4	16.4	16.4	16.4
85°	14.4	14.4	16.4	16.4
87.5°	12.3	12.3	14.4	14.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)