

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: P150691

Luminaire Tested: **TLM-E06-LED-E1-SL3-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150691  
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-E06-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: (126) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10674.5 lumens  
Efficiency: N/A  
Efficacy: 70.9 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

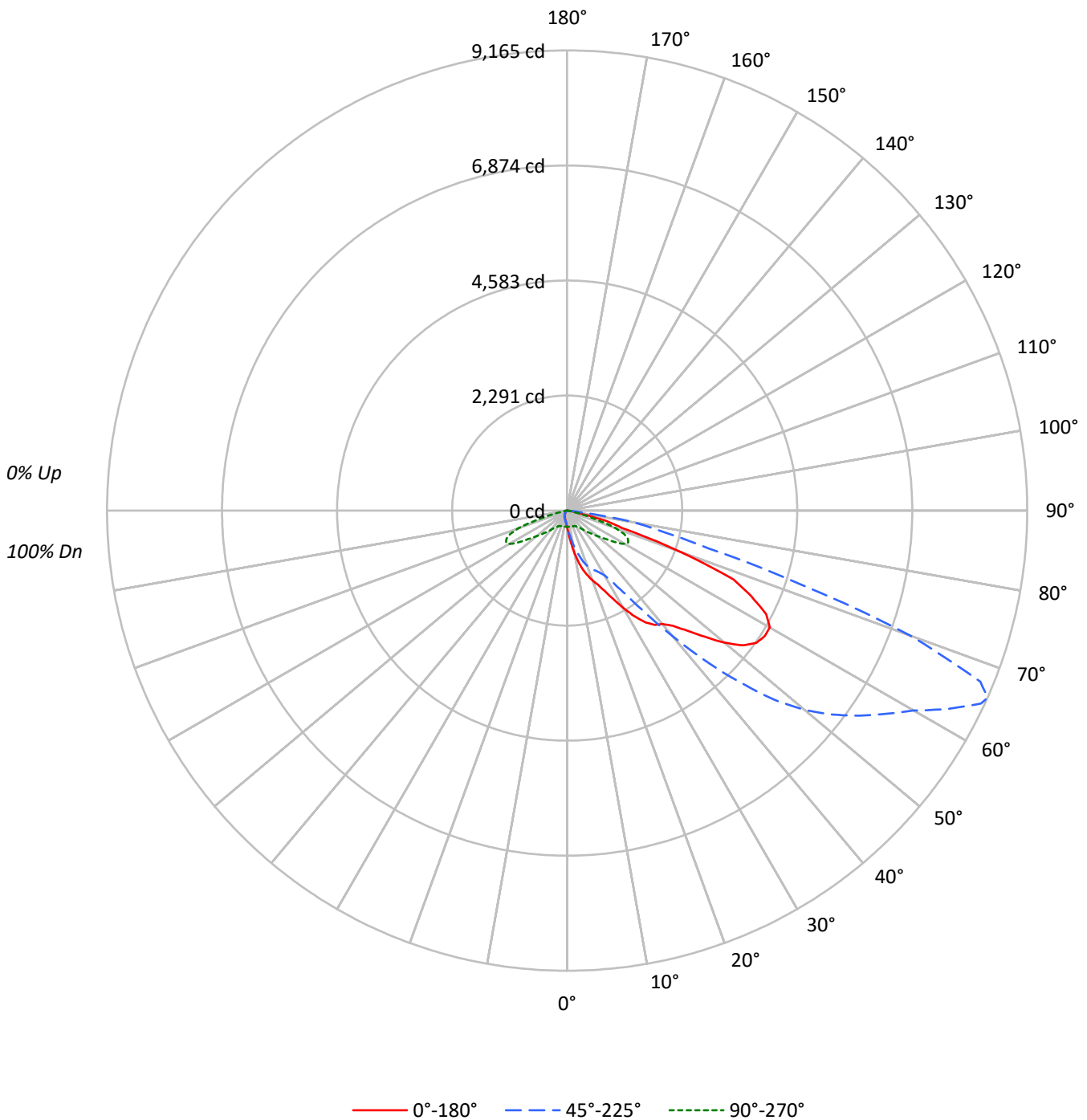
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3468	3468	3468
5°	5810	3493	2550
10°	9533	3522	2131
15°	13607	3671	1806
20°	16925	3796	1551
25°	20936	4021	1316
30°	27829	4502	1122
35°	35704	5326	943
40°	41409	7007	750
45°	51420	9465	562
50°	68492	13196	549
55°	86269	19295	616
60°	100333	28628	663
65°	103126	34001	731
70°	75371	32649	840
75°	33970	14209	1110
80°	6106	3561	1655
85°	506	3168	3038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	0.3
10°-20°	152.9	1.4
20°-30°	329.9	3.1
30°-40°	704.4	6.6
40°-50°	1557.8	14.6
50°-60°	2640.0	24.7
60°-70°	3522.9	33.0
70°-80°	1551.8	14.5
80°-90°	178.8	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°	518.9	4.9
0°-40°	1223.3	11.5
0°-60°	5421.1	50.8
0°-90°	10674.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10674.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	538	456	323	244	236	61
15°	1221	932	329	174	162	349
25°	1763	1316	339	127	111	844
35°	2717	2036	405	86	72	1685
45°	3378	4792	622	51	37	2670
55°	4597	7121	1028	25	33	4051
65°	4049	9091	1335	18	29	3866
75°	817	2910	342	14	27	901
85°	4	62	26	12	25	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2
2.5°	406.3	404.3	396.1	396.1	383.8	375.6	365.3	355.0	355.0	353.0	350.9
5°	537.7	525.4	523.3	500.7	482.3	455.6	431.0	398.1	394.0	389.9	387.9
7.5°	683.4	681.3	662.9	636.2	599.2	550.0	500.7	447.4	439.2	435.1	426.9
10°	872.2	861.9	837.3	792.2	736.7	671.1	591.0	506.9	496.6	488.4	484.3
12.5°	1052.8	1034.3	1019.9	962.5	892.7	796.3	699.8	578.7	570.5	560.3	543.8
15°	1221.1	1204.6	1180.0	1130.8	1052.8	931.7	818.8	671.1	650.6	636.2	623.9
17.5°	1352.4	1342.1	1313.4	1258.0	1173.9	1067.1	931.7	765.5	749.1	730.6	708.0
20°	1477.6	1463.2	1418.1	1342.1	1251.8	1169.8	1065.1	888.6	866.0	843.5	818.8
22.5°	1596.6	1582.3	1508.4	1383.2	1286.7	1251.8	1214.9	1028.2	993.3	974.8	950.2
25°	1762.8	1732.1	1617.1	1418.1	1288.8	1315.5	1379.1	1208.8	1175.9	1149.2	1110.2
27.5°	1986.5	1945.5	1764.9	1469.4	1297.0	1385.2	1567.9	1428.3	1393.5	1362.7	1319.6
30°	2239.0	2212.3	1996.8	1592.5	1356.5	1487.9	1779.3	1707.4	1666.4	1629.5	1578.2
32.5°	2493.4	2456.5	2243.1	1826.5	1516.6	1686.9	2044.0	2031.7	1978.3	1943.4	1888.0
35°	2717.1	2698.7	2540.6	2210.2	1881.9	2035.8	2397.0	2411.3	2364.1	2327.2	2265.6
37.5°	2869.0	2869.0	2838.2	2622.7	2462.7	2577.6	2916.2	2918.2	2871.0	2786.9	2756.1
40°	2947.0	2969.5	3080.4	3121.4	3113.2	3261.0	3597.5	3560.6	3521.6	3478.5	3375.9
42.5°	3107.0	3127.6	3363.6	3646.8	3831.5	4026.4	4258.3	4246.0	4198.8	4120.8	4026.4
45°	3377.9	3404.6	3685.8	4135.2	4514.9	4791.9	4939.7	4882.2	4835.0	4761.1	4711.9
47.5°	3722.7	3774.0	4092.1	4648.3	5105.9	5563.5	5717.5	5565.6	5524.6	5467.1	5387.1
50°	4090.1	4139.3	4477.9	5114.1	5631.3	6177.2	6433.7	6177.2	6117.6	6099.2	6008.9
52.5°	4408.1	4449.2	4775.5	5473.2	6033.5	6673.8	7047.3	6708.7	6665.6	6604.0	6538.3
55°	4597.0	4629.8	4935.6	5645.6	6306.4	7121.2	7640.4	7342.8	7279.2	7254.6	7160.2
57.5°	4660.6	4693.4	4968.4	5668.2	6454.2	7529.6	8360.7	8371.0	8295.0	8206.8	8178.1
60°	4660.6	4697.5	4929.4	5612.8	6597.9	7964.6	9321.1	10176.9	10012.7	9996.3	9891.7
62.5°	4467.7	4502.6	4736.5	5442.5	6790.8	8551.6	10659.2	12169.6	12122.4	12015.7	11843.3
65°	4049.0	4069.5	4299.4	5007.4	6716.9	9091.3	11818.7	13495.3	13419.4	13210.1	12988.4
66°	3860.2	3876.6	4092.1	4759.1	6474.7	9165.2	12023.9	13661.6	13536.4	13359.9	13109.5
67.5°	3587.3	3616.0	3767.9	4297.3	5893.9	8908.6	11894.6	13544.6	13435.8	13222.4	12972.0
70°	2394.9	2374.4	2910.0	3297.9	4490.2	7258.7	10671.5	12161.4	12163.5	12062.9	11962.3
72.5°	1136.9	1149.2	1305.2	2029.6	2938.8	4849.4	8494.1	9707.0	9846.5	9665.9	9540.7
75°	816.8	835.2	929.7	1241.6	1752.6	2910.0	5506.1	6788.7	6792.8	6472.7	6187.4
77.5°	238.1	248.3	348.9	765.5	1313.4	1964.0	3162.5	3774.0	3685.8	3455.9	3240.4
80°	98.5	98.5	102.6	244.2	527.4	1333.9	2212.3	2905.9	2895.7	2807.4	2680.2
82.5°	36.9	39.0	49.3	100.6	125.2	328.4	1475.5	2522.2	2516.0	2390.8	2300.5
85°	4.1	4.1	12.3	43.1	47.2	61.6	295.5	1112.3	1106.1	1112.3	974.8
87.5°	0.0	0.0	2.1	4.1	6.2	8.2	12.3	43.1	47.2	45.1	41.0
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2
2.5°	350.9	346.8	346.8	344.8	344.8	344.8	342.7	340.7	340.7	338.6	336.6
5°	383.8	379.7	377.6	373.5	371.5	369.4	365.3	363.2	359.1	357.1	355.0
7.5°	422.8	414.5	412.5	406.3	400.2	396.1	392.0	385.8	381.7	373.5	371.5
10°	472.0	461.7	453.5	445.3	439.2	428.9	422.8	414.5	406.3	400.2	394.0
12.5°	535.6	521.3	508.9	500.7	486.4	474.1	461.7	455.6	439.2	431.0	420.7
15°	605.4	589.0	574.6	558.2	547.9	527.4	511.0	492.5	484.3	470.0	453.5
17.5°	695.7	669.0	646.4	630.0	609.5	589.0	570.5	552.0	527.4	511.0	490.5
20°	792.2	769.6	738.8	710.1	685.4	660.8	634.1	609.5	586.9	560.3	535.6
22.5°	915.3	882.5	845.5	816.8	783.9	757.3	720.3	687.5	650.6	615.7	586.9
25°	1071.3	1028.2	993.3	952.2	913.2	872.2	827.0	786.0	738.8	706.0	656.7
27.5°	1264.2	1223.1	1175.9	1122.6	1083.6	1022.0	962.5	911.2	855.8	804.5	749.1
30°	1510.4	1450.9	1401.7	1350.4	1272.4	1212.9	1143.1	1073.3	997.4	946.1	861.9
32.5°	1805.9	1742.3	1668.4	1594.6	1522.7	1438.6	1352.4	1266.2	1182.1	1087.7	1001.5
35°	2167.1	2091.2	2007.1	1927.0	1816.2	1725.9	1617.1	1498.1	1403.7	1294.9	1186.2
37.5°	2645.3	2520.1	2446.2	2362.1	2212.3	2089.2	1968.1	1849.0	1682.8	1567.9	1414.0
40°	3244.5	3170.7	3049.6	2914.1	2778.7	2616.6	2452.4	2294.4	2101.5	1941.4	1762.8
42.5°	3948.5	3839.7	3716.6	3521.6	3384.1	3193.2	3006.5	2797.2	2561.2	2355.9	2146.6
45°	4609.3	4480.0	4385.6	4190.6	4047.0	3821.2	3595.5	3373.8	3100.9	2836.2	2594.0
47.5°	5323.4	5216.7	5060.8	4902.7	4757.0	4502.6	4258.3	3989.5	3702.2	3388.2	3074.2
50°	5951.4	5867.3	5760.6	5569.7	5407.6	5194.1	4906.8	4613.4	4250.1	3938.2	3581.1
52.5°	6485.0	6419.3	6269.5	6134.1	5988.4	5787.2	5530.7	5249.6	4857.6	4514.9	4108.5
55°	7115.0	7067.8	6936.5	6852.3	6723.0	6530.1	6290.0	6029.4	5614.8	5241.3	4781.7
57.5°	8147.3	8110.3	7995.4	7960.5	7833.3	7665.0	7369.5	7090.4	6606.1	6142.3	5616.9
60°	9856.8	9782.9	9614.6	9528.4	9259.6	9033.8	8650.1	8266.3	7681.4	7090.4	6458.3
62.5°	11687.3	11480.1	11159.9	10884.9	10503.2	10111.2	9598.2	9011.3	8325.8	7624.0	6897.5
65°	12674.5	12321.5	11917.2	11480.1	10985.5	10408.8	9762.4	9058.5	8321.7	7580.9	6813.3
66°	12787.3	12389.2	11960.3	11473.9	10923.9	10310.3	9653.6	8914.8	8149.3	7427.0	6659.4
67.5°	12645.7	12229.1	11775.6	11235.9	10640.7	10004.5	9315.0	8547.5	7810.7	7078.1	6331.1
70°	11654.5	11240.0	10835.7	10267.2	9633.1	8992.8	8340.2	7482.4	6784.6	6111.5	5446.6
72.5°	9306.8	9025.6	8625.4	8139.1	7521.4	6770.2	6226.4	5458.9	4853.5	4200.9	3685.8
75°	5816.0	5419.9	4925.3	4305.5	3833.5	3224.0	2905.9	2323.1	1978.3	1676.7	1385.2
77.5°	2973.7	2676.1	2329.3	1980.4	1645.9	1313.4	1015.8	718.3	484.3	336.6	250.4
80°	2456.5	2193.8	1906.5	1588.4	1292.9	1003.5	722.4	492.5	314.0	205.2	160.1
82.5°	2029.6	1808.0	1551.5	1256.0	999.4	788.0	547.9	357.1	221.6	143.7	112.9
85°	864.0	783.9	605.4	480.2	361.2	266.8	186.8	125.2	88.2	71.8	65.7
87.5°	36.9	41.0	39.0	30.8	22.6	22.6	20.5	16.4	16.4	16.4	16.4
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):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2	322.2
2.5°	336.6	334.5	332.5	332.5	330.4	328.4	316.0	305.8	293.5	285.3	277.0
5°	350.9	348.9	344.8	342.7	338.6	336.6	309.9	287.3	268.8	254.5	244.2
7.5°	365.3	363.2	357.1	350.9	348.9	344.8	301.7	272.9	248.3	231.9	221.6
10°	383.8	377.6	371.5	363.2	357.1	350.9	293.5	256.5	229.8	215.5	205.2
12.5°	410.4	400.2	389.9	379.7	371.5	361.2	289.4	242.2	215.5	199.1	188.8
15°	441.2	426.9	414.5	402.2	387.9	377.6	281.2	229.8	203.2	186.8	174.4
17.5°	470.0	453.5	435.1	416.6	402.2	387.9	272.9	217.5	190.9	174.4	162.1
20°	511.0	486.4	463.8	441.2	420.7	402.2	260.6	205.2	180.6	162.1	149.8
22.5°	556.1	527.4	498.7	467.9	441.2	416.6	250.4	195.0	170.3	151.9	137.5
25°	613.6	578.7	539.7	500.7	470.0	437.1	240.1	184.7	160.1	141.6	127.2
27.5°	693.6	644.4	601.3	552.0	504.8	467.9	231.9	176.5	149.8	131.3	117.0
30°	802.4	730.6	662.9	609.5	554.1	500.7	223.7	166.2	141.6	121.1	104.7
32.5°	923.5	839.4	761.4	681.3	611.6	550.0	215.5	158.0	131.3	110.8	96.5
35°	1073.3	966.6	861.9	769.6	685.4	603.4	207.3	149.8	123.1	100.6	86.2
37.5°	1288.8	1155.4	1017.9	898.9	790.1	681.3	201.1	141.6	112.9	90.3	75.9
40°	1584.3	1411.9	1243.6	1081.5	939.9	804.5	192.9	133.4	104.7	82.1	67.7
42.5°	1904.5	1695.1	1473.5	1290.8	1095.9	925.5	184.7	125.2	96.5	73.9	59.5
45°	2302.6	2041.9	1773.1	1524.8	1286.7	1067.1	176.5	117.0	86.2	65.7	51.3
47.5°	2737.6	2405.2	2101.5	1789.5	1506.3	1243.6	166.2	110.8	78.0	57.5	45.1
50°	3185.0	2834.1	2450.3	2095.3	1758.7	1420.1	156.0	100.6	69.8	51.3	36.9
52.5°	3667.3	3252.8	2860.8	2419.6	2027.6	1652.0	145.7	92.3	63.6	45.1	30.8
55°	4280.9	3817.1	3357.4	2862.8	2390.8	1920.9	135.4	82.1	55.4	39.0	24.6
57.5°	5052.5	4502.6	3938.2	3380.0	2807.4	2273.8	127.2	71.8	47.2	32.8	20.5
60°	5781.1	5138.7	4455.3	3813.0	3166.6	2544.7	114.9	63.6	41.0	26.7	20.5
62.5°	6158.7	5426.0	4689.3	3981.3	3291.7	2641.2	102.6	53.4	34.9	22.6	18.5
65°	6066.3	5319.3	4605.2	3891.0	3215.8	2579.6	90.3	47.2	30.8	20.5	18.5
66°	5932.9	5194.1	4475.9	3796.6	3152.2	2514.0	84.1	45.1	28.7	20.5	16.4
67.5°	5641.5	4927.4	4241.9	3609.8	2977.8	2388.8	75.9	41.0	26.7	18.5	16.4
70°	4818.6	4170.1	3622.2	3059.8	2544.7	2013.2	61.6	34.9	22.6	16.4	16.4
72.5°	3189.1	2747.9	2382.6	2050.2	1713.6	1329.8	51.3	28.7	18.5	16.4	14.4
75°	1202.6	1087.7	933.8	839.4	732.6	642.3	41.0	18.5	14.4	14.4	14.4
77.5°	213.4	197.0	174.4	160.1	147.8	135.4	32.8	12.3	12.3	14.4	14.4
80°	143.7	133.4	121.1	110.8	102.6	92.3	22.6	10.3	12.3	12.3	14.4
82.5°	102.6	96.5	90.3	82.1	75.9	67.7	14.4	10.3	12.3	12.3	12.3
85°	61.6	57.5	53.4	49.3	43.1	41.0	10.3	10.3	10.3	12.3	12.3
87.5°	16.4	14.4	16.4	16.4	12.3	14.4	8.2	8.2	8.2	10.3	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





TEST NUMBER: P150691

CATALOG NUMBER: TLM-E06-LED-E1-SL3-HSS-7050

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	322.2	322.2	322.2	322.2	322.2
2.5°	272.9	272.9	268.8	275.0	275.0
5°	236.0	236.0	234.0	236.0	236.0
7.5°	215.5	213.4	213.4	213.4	215.5
10°	197.0	195.0	195.0	195.0	195.0
12.5°	180.6	178.5	176.5	178.5	178.5
15°	166.2	162.1	162.1	162.1	162.1
17.5°	153.9	149.8	147.8	147.8	147.8
20°	141.6	135.4	135.4	135.4	135.4
22.5°	129.3	123.1	123.1	123.1	123.1
25°	117.0	110.8	110.8	110.8	110.8
27.5°	106.7	100.6	100.6	100.6	100.6
30°	94.4	90.3	90.3	92.3	90.3
32.5°	86.2	80.0	80.0	82.1	82.1
35°	75.9	71.8	71.8	71.8	71.8
37.5°	65.7	61.6	61.6	61.6	61.6
40°	57.5	53.4	51.3	53.4	53.4
42.5°	49.3	45.1	43.1	43.1	43.1
45°	43.1	36.9	34.9	36.9	36.9
47.5°	34.9	30.8	30.8	32.8	32.8
50°	26.7	26.7	28.7	32.8	32.8
52.5°	24.6	24.6	28.7	32.8	32.8
55°	22.6	24.6	28.7	30.8	32.8
57.5°	20.5	24.6	28.7	30.8	30.8
60°	20.5	22.6	26.7	30.8	30.8
62.5°	18.5	20.5	24.6	28.7	28.7
65°	18.5	20.5	24.6	28.7	28.7
66°	18.5	20.5	24.6	28.7	28.7
67.5°	18.5	20.5	24.6	28.7	28.7
70°	18.5	20.5	24.6	26.7	26.7
72.5°	16.4	18.5	22.6	26.7	26.7
75°	16.4	18.5	22.6	26.7	26.7
77.5°	16.4	18.5	22.6	26.7	26.7
80°	16.4	18.5	22.6	24.6	26.7
82.5°	14.4	18.5	20.5	24.6	24.6
85°	14.4	16.4	20.5	22.6	24.6
87.5°	12.3	14.4	16.4	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)