

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: P150688

Luminaire Tested: **TLM-E06-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150688  
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-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (126) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8780.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 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

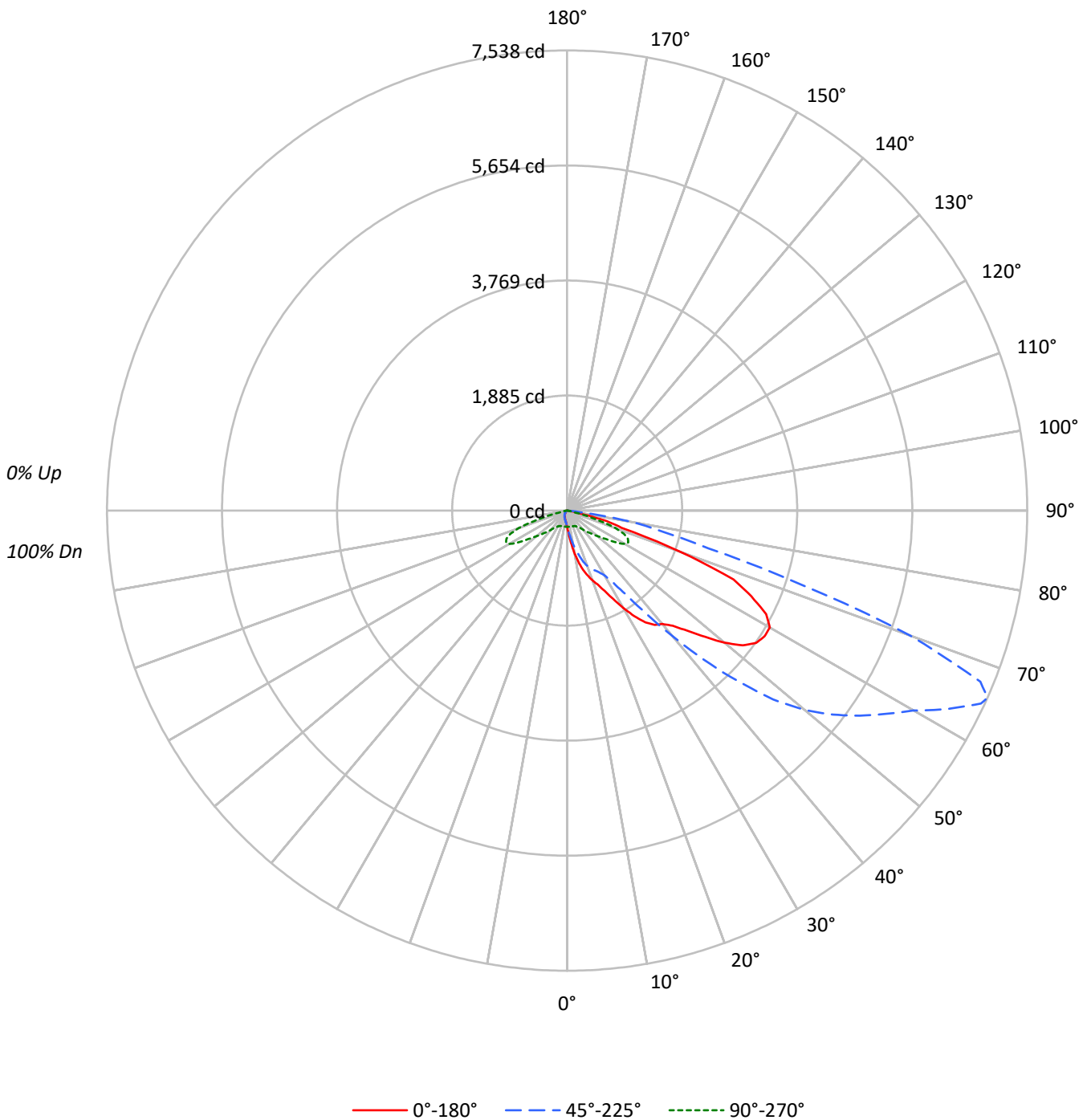
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

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

	0°	90°	180°
0°	2852	2852	2852
5°	4779	2873	2097
10°	7841	2896	1753
15°	11192	3019	1487
20°	13921	3123	1276
25°	17221	3308	1083
30°	22889	3703	923
35°	29367	4381	777
40°	34059	5764	617
45°	42294	7786	463
50°	56334	10855	452
55°	70957	15871	507
60°	82525	23547	545
65°	84824	27967	601
70°	61996	26853	689
75°	27939	11688	911
80°	5021	2932	1358
85°	420	2606	2507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	0.3
10°-20°	125.8	1.4
20°-30°	271.3	3.1
30°-40°	579.4	6.6
40°-50°	1281.3	14.6
50°-60°	2171.4	24.7
60°-70°	2897.6	33.0
70°-80°	1276.4	14.5
80°-90°	147.0	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°	426.8	4.9
0°-40°	1006.2	11.5
0°-60°	4459.0	50.8
0°-90°	8780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	442	375	266	201	194	50
15°	1004	766	271	144	133	287
25°	1450	1082	278	105	91	694
35°	2235	1674	333	71	59	1386
45°	2778	3941	512	42	30	2196
55°	3781	5857	846	20	27	3332
65°	3330	7478	1098	15	24	3179
75°	672	2394	281	12	22	741
85°	3	51	21	10	20	20
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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	334.2	332.5	325.8	325.8	315.7	308.9	300.5	292.0	292.0	290.3	288.6
5°	442.3	432.1	430.4	411.9	396.7	374.7	354.5	327.5	324.1	320.7	319.0
7.5°	562.1	560.4	545.2	523.3	492.9	452.4	411.9	368.0	361.2	357.9	351.1
10°	717.4	709.0	688.7	651.6	606.0	552.0	486.1	416.9	408.5	401.7	398.4
12.5°	865.9	850.7	838.9	791.7	734.3	654.9	575.6	476.0	469.3	460.8	447.3
15°	1004.3	990.8	970.6	930.1	865.9	766.3	673.5	552.0	535.1	523.3	513.1
17.5°	1112.4	1103.9	1080.3	1034.7	965.5	877.8	766.3	629.6	616.1	600.9	582.4
20°	1215.3	1203.5	1166.4	1103.9	1029.7	962.1	876.1	730.9	712.3	693.8	673.5
22.5°	1313.2	1301.4	1240.7	1137.7	1058.4	1029.7	999.3	845.7	817.0	801.8	781.5
25°	1450.0	1424.7	1330.1	1166.4	1060.1	1082.0	1134.3	994.2	967.2	945.3	913.2
27.5°	1634.0	1600.2	1451.7	1208.6	1066.8	1139.4	1289.6	1174.8	1146.1	1120.8	1085.4
30°	1841.6	1819.6	1642.4	1309.9	1115.8	1223.8	1463.5	1404.4	1370.6	1340.3	1298.1
32.5°	2050.9	2020.5	1845.0	1502.3	1247.4	1387.5	1681.2	1671.1	1627.2	1598.5	1552.9
35°	2234.9	2219.7	2089.7	1818.0	1547.9	1674.5	1971.6	1983.4	1944.6	1914.2	1863.5
37.5°	2359.8	2359.8	2334.5	2157.2	2025.6	2120.1	2398.6	2400.3	2361.5	2292.3	2267.0
40°	2423.9	2442.5	2533.7	2567.4	2560.7	2682.2	2959.0	2928.6	2896.6	2861.1	2776.7
42.5°	2555.6	2572.5	2766.6	2999.5	3151.5	3311.8	3502.6	3492.4	3453.6	3389.5	3311.8
45°	2778.4	2800.4	3031.6	3401.3	3713.6	3941.4	4063.0	4015.7	3976.9	3916.1	3875.6
47.5°	3062.0	3104.2	3365.8	3823.3	4199.7	4576.1	4702.7	4577.8	4544.0	4496.8	4431.0
50°	3364.1	3404.7	3683.2	4206.5	4631.8	5080.8	5291.8	5080.8	5031.9	5016.7	4942.4
52.5°	3625.8	3659.5	3927.9	4501.8	4962.7	5489.3	5796.5	5518.0	5482.6	5431.9	5377.9
55°	3781.1	3808.1	4059.6	4643.6	5187.2	5857.3	6284.4	6039.6	5987.3	5967.0	5889.4
57.5°	3833.4	3860.4	4086.6	4662.2	5308.7	6193.2	6876.8	6885.3	6822.8	6750.2	6726.6
60°	3833.4	3863.8	4054.5	4616.6	5426.9	6551.1	7666.8	8370.7	8235.7	8222.2	8136.1
62.5°	3674.7	3703.4	3895.9	4476.5	5585.5	7033.8	8767.4	10009.7	9970.9	9883.1	9741.3
65°	3330.4	3347.3	3536.3	4118.7	5524.8	7477.8	9721.1	11100.2	11037.7	10865.5	10683.2
66°	3175.1	3188.6	3365.8	3914.4	5325.6	7538.5	9889.9	11236.9	11133.9	10988.8	10782.8
67.5°	2950.6	2974.2	3099.1	3534.6	4847.9	7327.5	9783.5	11140.7	11051.2	10875.7	10669.7
70°	1969.9	1953.0	2393.6	2712.6	3693.3	5970.4	8777.5	10003.0	10004.7	9922.0	9839.2
72.5°	935.1	945.3	1073.6	1669.4	2417.2	3988.7	6986.6	7984.2	8098.9	7950.4	7847.4
75°	671.8	687.0	764.7	1021.2	1441.5	2393.6	4528.9	5583.8	5587.2	5323.9	5089.3
77.5°	195.8	204.2	287.0	629.6	1080.3	1615.4	2601.2	3104.2	3031.6	2842.6	2665.3
80°	81.0	81.0	84.4	200.9	433.8	1097.2	1819.6	2390.2	2381.7	2309.2	2204.5
82.5°	30.4	32.1	40.5	82.7	103.0	270.1	1213.7	2074.5	2069.5	1966.5	1892.2
85°	3.4	3.4	10.1	35.4	38.8	50.6	243.1	914.9	909.8	914.9	801.8
87.5°	0.0	0.0	1.7	3.4	5.1	6.8	10.1	35.4	38.8	37.1	33.8
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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	288.6	285.3	285.3	283.6	283.6	283.6	281.9	280.2	280.2	278.5	276.8
5°	315.7	312.3	310.6	307.2	305.5	303.8	300.5	298.8	295.4	293.7	292.0
7.5°	347.7	341.0	339.3	334.2	329.2	325.8	322.4	317.3	314.0	307.2	305.5
10°	388.2	379.8	373.0	366.3	361.2	352.8	347.7	341.0	334.2	329.2	324.1
12.5°	440.6	428.7	418.6	411.9	400.1	389.9	379.8	374.7	361.2	354.5	346.0
15°	498.0	484.5	472.6	459.1	450.7	433.8	420.3	405.1	398.4	386.5	373.0
17.5°	572.2	550.3	531.7	518.2	501.3	484.5	469.3	454.1	433.8	420.3	403.4
20°	651.6	633.0	607.7	584.0	563.8	543.5	521.6	501.3	482.8	460.8	440.6
22.5°	752.8	725.8	695.4	671.8	644.8	622.9	592.5	565.5	535.1	506.4	482.8
25°	881.1	845.7	817.0	783.2	751.2	717.4	680.3	646.5	607.7	580.7	540.2
27.5°	1039.8	1006.0	967.2	923.3	891.3	840.6	791.7	749.5	703.9	661.7	616.1
30°	1242.4	1193.4	1152.9	1110.7	1046.5	997.6	940.2	882.8	820.4	778.2	709.0
32.5°	1485.4	1433.1	1372.3	1311.6	1252.5	1183.3	1112.4	1041.5	972.3	894.6	823.7
35°	1782.5	1720.1	1650.8	1585.0	1493.9	1419.6	1330.1	1232.2	1154.6	1065.1	975.7
37.5°	2175.8	2072.8	2012.1	1942.9	1819.6	1718.4	1618.8	1520.9	1384.1	1289.6	1163.0
40°	2668.7	2607.9	2508.3	2396.9	2285.5	2152.2	2017.1	1887.2	1728.5	1596.8	1450.0
42.5°	3247.7	3158.2	3056.9	2896.6	2783.5	2626.5	2472.9	2300.7	2106.6	1937.8	1765.6
45°	3791.2	3684.9	3607.2	3446.9	3328.7	3143.0	2957.3	2775.0	2550.5	2332.8	2133.6
47.5°	4378.6	4290.8	4162.6	4032.6	3912.7	3703.4	3502.6	3281.4	3045.1	2786.9	2528.6
50°	4895.1	4825.9	4738.2	4581.2	4447.8	4272.3	4036.0	3794.6	3495.8	3239.2	2945.5
52.5°	5334.0	5280.0	5156.8	5045.4	4925.5	4760.1	4549.1	4317.9	3995.5	3713.6	3379.3
55°	5852.2	5813.4	5705.4	5636.2	5529.8	5371.2	5173.7	4959.3	4618.3	4311.1	3933.0
57.5°	6701.3	6670.9	6576.4	6547.7	6443.0	6304.6	6061.5	5832.0	5433.6	5052.1	4620.0
60°	8107.4	8046.6	7908.2	7837.3	7616.2	7430.5	7114.8	6799.2	6318.1	5832.0	5312.1
62.5°	9613.1	9442.6	9179.2	8953.1	8639.1	8316.7	7894.7	7411.9	6848.1	6270.9	5673.3
65°	10425.0	10134.6	9802.1	9442.6	9035.8	8561.4	8029.7	7450.8	6844.8	6235.4	5604.1
66°	10517.8	10190.3	9837.6	9437.5	8985.1	8480.4	7940.3	7332.6	6703.0	6108.8	5477.5
67.5°	10401.3	10058.7	9685.6	9241.7	8752.2	8228.9	7661.7	7030.4	6424.5	5821.8	5207.4
70°	9586.0	9245.1	8912.5	8445.0	7923.4	7396.7	6860.0	6154.4	5580.5	5026.8	4479.9
72.5°	7655.0	7423.7	7094.6	6694.5	6186.5	5568.7	5121.3	4490.0	3992.1	3455.3	3031.6
75°	4783.7	4458.0	4051.2	3541.4	3153.2	2651.8	2390.2	1910.8	1627.2	1379.1	1139.4
77.5°	2445.9	2201.1	1915.9	1628.9	1353.8	1080.3	835.6	590.8	398.4	276.8	205.9
80°	2020.5	1804.5	1568.1	1306.5	1063.4	825.4	594.2	405.1	258.3	168.8	131.7
82.5°	1669.4	1487.1	1276.1	1033.0	822.0	648.2	450.7	293.7	182.3	118.2	92.8
85°	710.6	644.8	498.0	395.0	297.1	219.4	153.6	103.0	72.6	59.1	54.0
87.5°	30.4	33.8	32.1	25.3	18.6	18.6	16.9	13.5	13.5	13.5	13.5
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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	276.8	275.1	273.5	273.5	271.8	270.1	259.9	251.5	241.4	234.6	227.9
5°	288.6	287.0	283.6	281.9	278.5	276.8	254.9	236.3	221.1	209.3	200.9
7.5°	300.5	298.8	293.7	288.6	287.0	283.6	248.1	224.5	204.2	190.7	182.3
10°	315.7	310.6	305.5	298.8	293.7	288.6	241.4	211.0	189.1	177.2	168.8
12.5°	337.6	329.2	320.7	312.3	305.5	297.1	238.0	199.2	177.2	163.7	155.3
15°	362.9	351.1	341.0	330.8	319.0	310.6	231.3	189.1	167.1	153.6	143.5
17.5°	386.5	373.0	357.9	342.7	330.8	319.0	224.5	178.9	157.0	143.5	133.4
20°	420.3	400.1	381.5	362.9	346.0	330.8	214.4	168.8	148.5	133.4	123.2
22.5°	457.4	433.8	410.2	384.9	362.9	342.7	205.9	160.4	140.1	124.9	113.1
25°	504.7	476.0	443.9	411.9	386.5	359.5	197.5	151.9	131.7	116.5	104.7
27.5°	570.5	530.0	494.6	454.1	415.2	384.9	190.7	145.2	123.2	108.0	96.2
30°	660.0	600.9	545.2	501.3	455.8	411.9	184.0	136.7	116.5	99.6	86.1
32.5°	759.6	690.4	626.2	560.4	503.0	452.4	177.2	130.0	108.0	91.2	79.3
35°	882.8	795.0	709.0	633.0	563.8	496.3	170.5	123.2	101.3	82.7	70.9
37.5°	1060.1	950.3	837.2	739.3	649.9	560.4	165.4	116.5	92.8	74.3	62.5
40°	1303.1	1161.3	1022.9	889.6	773.1	661.7	158.7	109.7	86.1	67.5	55.7
42.5°	1566.4	1394.3	1212.0	1061.7	901.4	761.3	151.9	103.0	79.3	60.8	49.0
45°	1893.9	1679.5	1458.4	1254.2	1058.4	877.8	145.2	96.2	70.9	54.0	42.2
47.5°	2251.8	1978.3	1728.5	1471.9	1239.0	1022.9	136.7	91.2	64.1	47.3	37.1
50°	2619.7	2331.1	2015.5	1723.4	1446.6	1168.1	128.3	82.7	57.4	42.2	30.4
52.5°	3016.4	2675.5	2353.0	1990.1	1667.7	1358.8	119.8	76.0	52.3	37.1	25.3
55°	3521.1	3139.6	2761.5	2354.7	1966.5	1580.0	111.4	67.5	45.6	32.1	20.3
57.5°	4155.8	3703.4	3239.2	2780.1	2309.2	1870.3	104.7	59.1	38.8	27.0	16.9
60°	4755.0	4226.7	3664.6	3136.3	2604.6	2093.1	94.5	52.3	33.8	21.9	16.9
62.5°	5065.6	4463.0	3857.0	3274.7	2707.5	2172.4	84.4	43.9	28.7	18.6	15.2
65°	4989.7	4375.2	3787.8	3200.4	2645.1	2121.8	74.3	38.8	25.3	16.9	15.2
66°	4880.0	4272.3	3681.5	3122.8	2592.7	2067.8	69.2	37.1	23.6	16.9	13.5
67.5°	4640.3	4052.8	3489.1	2969.2	2449.3	1964.8	62.5	33.8	21.9	15.2	13.5
70°	3963.4	3430.0	2979.3	2516.8	2093.1	1655.9	50.6	28.7	18.6	13.5	13.5
72.5°	2623.1	2260.2	1959.7	1686.3	1409.5	1093.8	42.2	23.6	15.2	13.5	11.8
75°	989.2	894.6	768.0	690.4	602.6	528.3	33.8	15.2	11.8	11.8	11.8
77.5°	175.6	162.0	143.5	131.7	121.5	111.4	27.0	10.1	10.1	11.8	11.8
80°	118.2	109.7	99.6	91.2	84.4	76.0	18.6	8.4	10.1	10.1	11.8
82.5°	84.4	79.3	74.3	67.5	62.5	55.7	11.8	8.4	10.1	10.1	10.1
85°	50.6	47.3	43.9	40.5	35.4	33.8	8.4	8.4	8.4	10.1	10.1
87.5°	13.5	11.8	13.5	13.5	10.1	11.8	6.8	6.8	6.8	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: P150688

CATALOG NUMBER: TLM-E06-LED-E1-SL3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	265.0	265.0	265.0	265.0	265.0
2.5°	224.5	224.5	221.1	226.2	226.2
5°	194.1	194.1	192.4	194.1	194.1
7.5°	177.2	175.6	175.6	175.6	177.2
10°	162.0	160.4	160.4	160.4	160.4
12.5°	148.5	146.9	145.2	146.9	146.9
15°	136.7	133.4	133.4	133.4	133.4
17.5°	126.6	123.2	121.5	121.5	121.5
20°	116.5	111.4	111.4	111.4	111.4
22.5°	106.3	101.3	101.3	101.3	101.3
25°	96.2	91.2	91.2	91.2	91.2
27.5°	87.8	82.7	82.7	82.7	82.7
30°	77.6	74.3	74.3	76.0	74.3
32.5°	70.9	65.8	65.8	67.5	67.5
35°	62.5	59.1	59.1	59.1	59.1
37.5°	54.0	50.6	50.6	50.6	50.6
40°	47.3	43.9	42.2	43.9	43.9
42.5°	40.5	37.1	35.4	35.4	35.4
45°	35.4	30.4	28.7	30.4	30.4
47.5°	28.7	25.3	25.3	27.0	27.0
50°	21.9	21.9	23.6	27.0	27.0
52.5°	20.3	20.3	23.6	27.0	27.0
55°	18.6	20.3	23.6	25.3	27.0
57.5°	16.9	20.3	23.6	25.3	25.3
60°	16.9	18.6	21.9	25.3	25.3
62.5°	15.2	16.9	20.3	23.6	23.6
65°	15.2	16.9	20.3	23.6	23.6
66°	15.2	16.9	20.3	23.6	23.6
67.5°	15.2	16.9	20.3	23.6	23.6
70°	15.2	16.9	20.3	21.9	21.9
72.5°	13.5	15.2	18.6	21.9	21.9
75°	13.5	15.2	18.6	21.9	21.9
77.5°	13.5	15.2	18.6	21.9	21.9
80°	13.5	15.2	18.6	20.3	21.9
82.5°	11.8	15.2	16.9	20.3	20.3
85°	11.8	13.5	16.9	18.6	20.3
87.5°	10.1	11.8	13.5	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)