

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: P150679

Luminaire Tested: **TLM-E05-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150679
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-E05-LED-E1-SL3-HSS-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917.9 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

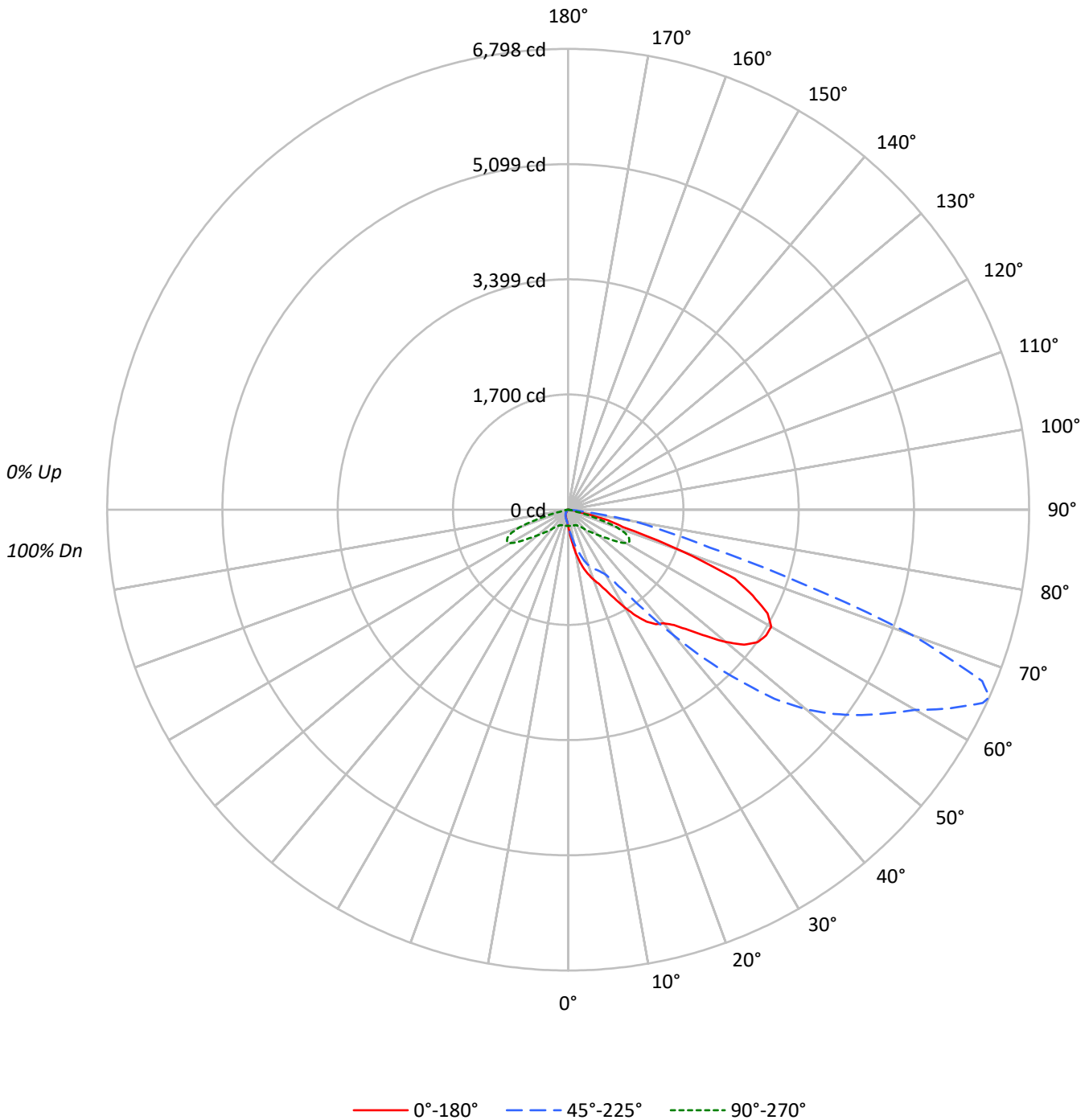
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3099	3099	3099
5°	5192	3121	2279
10°	8520	3147	1904
15°	12160	3280	1615
20°	15126	3393	1387
25°	18711	3594	1176
30°	24870	4023	1003
35°	31909	4759	844
40°	37007	6262	670
45°	45954	8459	503
50°	61208	11794	492
55°	77096	17244	552
60°	89665	25584	591
65°	92163	30387	654
70°	67361	29178	751
75°	30360	12700	992
80°	5459	3181	1479
85°	446	2827	2723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.3
10°-20°	113.4	1.4
20°-30°	244.7	3.1
30°-40°	522.5	6.6
40°-50°	1155.5	14.6
50°-60°	1958.2	24.7
60°-70°	2613.1	33.0
70°-80°	1151.1	14.5
80°-90°	132.6	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°	384.9	4.9
0°-40°	907.4	11.5
0°-60°	4021.2	50.8
0°-90°	7917.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7917.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	239	239	239	239	239	
5°	399	338	240	181	175	45
15°	906	691	244	129	120	259
25°	1308	976	251	94	82	626
35°	2016	1510	301	64	53	1250
45°	2506	3554	461	38	27	1980
55°	3410	5282	763	18	24	3005
65°	3003	6744	990	14	21	2867
75°	606	2159	253	11	20	668
85°	3	46	19	9	18	18
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°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	301.4	299.9	293.8	293.8	284.7	278.6	271.0	263.3	263.3	261.8	260.3
5°	398.8	389.7	388.2	371.4	357.7	337.9	319.7	295.3	292.3	289.2	287.7
7.5°	506.9	505.4	491.7	471.9	444.5	408.0	371.4	331.9	325.8	322.7	316.6
10°	647.0	639.3	621.1	587.6	546.5	497.8	438.4	376.0	368.4	362.3	359.3
12.5°	780.9	767.2	756.6	713.9	662.2	590.6	519.1	429.3	423.2	415.6	403.4
15°	905.7	893.6	875.3	838.8	780.9	691.1	607.4	497.8	482.6	471.9	462.8
17.5°	1003.2	995.6	974.2	933.1	870.7	791.6	691.1	567.8	555.6	541.9	525.2
20°	1096.0	1085.4	1051.9	995.6	928.6	867.7	790.0	659.1	642.4	625.6	607.4
22.5°	1184.3	1173.7	1118.9	1026.0	954.5	928.6	901.2	762.6	736.8	723.1	704.8
25°	1307.6	1284.8	1199.5	1051.9	956.0	975.8	1023.0	896.6	872.2	852.5	823.5
27.5°	1473.5	1443.1	1309.1	1089.9	962.1	1027.5	1163.0	1059.5	1033.6	1010.8	978.8
30°	1660.8	1641.0	1481.1	1181.3	1006.2	1103.6	1319.8	1266.5	1236.1	1208.7	1170.6
32.5°	1849.5	1822.1	1663.8	1354.8	1124.9	1251.3	1516.2	1507.0	1467.4	1441.6	1400.5
35°	2015.5	2001.8	1884.5	1639.5	1395.9	1510.1	1778.0	1788.6	1753.6	1726.2	1680.6
37.5°	2128.1	2128.1	2105.3	1945.4	1826.7	1911.9	2163.1	2164.6	2129.6	2067.2	2044.4
40°	2186.0	2202.7	2284.9	2315.3	2309.3	2418.9	2668.5	2641.1	2612.2	2580.2	2504.1
42.5°	2304.7	2319.9	2495.0	2705.0	2842.0	2986.7	3158.7	3149.5	3114.5	3056.7	2986.7
45°	2505.6	2525.4	2734.0	3067.3	3349.0	3554.5	3664.1	3621.4	3586.4	3531.6	3495.1
47.5°	2761.4	2799.4	3035.4	3447.9	3787.4	4126.8	4241.0	4128.3	4097.9	4055.3	3995.9
50°	3033.8	3070.4	3321.6	3793.4	4177.1	4582.0	4772.3	4582.0	4537.8	4524.1	4457.1
52.5°	3269.8	3300.2	3542.3	4059.8	4475.4	4950.4	5227.4	4976.2	4944.3	4898.6	4849.9
55°	3409.8	3434.2	3661.0	4187.7	4677.9	5282.2	5667.3	5446.6	5399.4	5381.2	5311.1
57.5°	3457.0	3481.4	3685.4	4204.5	4787.5	5585.1	6201.6	6209.3	6152.9	6087.5	6066.2
60°	3457.0	3484.4	3656.4	4163.4	4894.0	5907.9	6914.1	7548.8	7427.1	7414.9	7337.2
62.5°	3313.9	3339.8	3513.4	4037.0	5037.1	6343.2	7906.6	9026.9	8991.9	8912.8	8784.9
65°	3003.4	3018.6	3189.1	3714.3	4982.3	6743.6	8766.6	10010.3	9954.0	9798.7	9634.3
66°	2863.4	2875.5	3035.4	3530.1	4802.7	6798.4	8918.9	10133.6	10040.8	9909.9	9724.1
67.5°	2660.9	2682.2	2794.9	3187.6	4371.9	6608.1	8823.0	10046.9	9966.2	9807.9	9622.1
70°	1776.5	1761.2	2158.6	2446.3	3330.7	5384.2	7915.7	9020.9	9022.4	8947.8	8873.2
72.5°	843.3	852.5	968.2	1505.5	2179.9	3597.1	6300.6	7200.2	7303.8	7169.8	7076.9
75°	605.9	619.6	689.6	921.0	1300.0	2158.6	4084.2	5035.6	5038.6	4801.2	4589.6
77.5°	176.6	184.2	258.8	567.8	974.2	1456.8	2345.8	2799.4	2734.0	2563.5	2403.6
80°	73.1	73.1	76.1	181.1	391.2	989.5	1641.0	2155.5	2147.9	2082.4	1988.1
82.5°	27.4	28.9	36.5	74.6	92.9	243.6	1094.5	1870.8	1866.3	1773.4	1706.4
85°	3.0	3.0	9.1	32.0	35.0	45.7	219.2	825.1	820.5	825.1	723.1
87.5°	0.0	0.0	1.5	3.0	4.6	6.1	9.1	32.0	35.0	33.5	30.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	260.3	257.3	257.3	255.7	255.7	255.7	254.2	252.7	252.7	251.2	249.6
5°	284.7	281.6	280.1	277.0	275.5	274.0	271.0	269.4	266.4	264.9	263.3
7.5°	313.6	307.5	306.0	301.4	296.8	293.8	290.7	286.2	283.1	277.0	275.5
10°	350.1	342.5	336.4	330.3	325.8	318.2	313.6	307.5	301.4	296.8	292.3
12.5°	397.3	386.7	377.5	371.4	360.8	351.6	342.5	337.9	325.8	319.7	312.1
15°	449.1	436.9	426.2	414.1	406.4	391.2	379.0	365.3	359.3	348.6	336.4
17.5°	516.0	496.3	479.5	467.3	452.1	436.9	423.2	409.5	391.2	379.0	363.8
20°	587.6	570.8	548.0	526.7	508.4	490.2	470.4	452.1	435.4	415.6	397.3
22.5°	678.9	654.6	627.2	605.9	581.5	561.7	534.3	510.0	482.6	456.7	435.4
25°	794.6	762.6	736.8	706.3	677.4	647.0	613.5	583.0	548.0	523.7	487.1
27.5°	937.7	907.3	872.2	832.7	803.7	758.1	713.9	675.9	634.8	596.7	555.6
30°	1120.4	1076.2	1039.7	1001.6	943.8	899.7	847.9	796.1	739.8	701.8	639.3
32.5°	1339.6	1292.4	1237.6	1182.8	1129.5	1067.1	1003.2	939.2	876.8	806.8	742.9
35°	1607.5	1551.2	1488.8	1429.4	1347.2	1280.2	1199.5	1111.2	1041.2	960.5	879.9
37.5°	1962.2	1869.3	1814.5	1752.1	1641.0	1549.7	1459.8	1371.5	1248.2	1163.0	1048.8
40°	2406.7	2351.9	2262.1	2161.6	2061.1	1940.9	1819.1	1701.9	1558.8	1440.0	1307.6
42.5°	2928.8	2848.1	2756.8	2612.2	2510.2	2368.6	2230.1	2074.8	1899.8	1747.5	1592.3
45°	3419.0	3323.1	3253.0	3108.4	3001.9	2834.4	2667.0	2502.6	2300.1	2103.8	1924.1
47.5°	3948.7	3869.6	3753.9	3636.7	3528.6	3339.8	3158.7	2959.3	2746.1	2513.2	2280.3
50°	4414.5	4352.1	4273.0	4131.4	4011.1	3852.8	3639.7	3422.0	3152.6	2921.2	2656.3
52.5°	4810.3	4761.6	4650.5	4550.0	4441.9	4292.7	4102.5	3893.9	3603.2	3349.0	3047.5
55°	5277.6	5242.6	5145.2	5082.8	4986.9	4843.8	4665.7	4472.4	4164.9	3887.8	3546.8
57.5°	6043.3	6015.9	5930.7	5904.8	5810.4	5685.6	5466.4	5259.4	4900.1	4556.1	4166.4
60°	7311.4	7256.6	7131.7	7067.8	6868.4	6700.9	6416.3	6131.6	5697.8	5259.4	4790.5
62.5°	8669.2	8515.5	8278.0	8074.0	7790.9	7500.1	7119.6	6684.2	6175.8	5655.2	5116.3
65°	9401.4	9139.6	8839.7	8515.5	8148.6	7720.9	7241.3	6719.2	6172.7	5623.2	5053.9
66°	9485.1	9189.8	8871.7	8510.9	8102.9	7647.8	7160.7	6612.7	6044.9	5509.0	4939.7
67.5°	9380.1	9071.1	8734.7	8334.3	7892.9	7421.0	6909.5	6340.2	5793.7	5250.2	4696.1
70°	8644.9	8337.4	8037.5	7615.8	7145.4	6670.5	6186.4	5550.1	5032.6	4533.3	4040.1
72.5°	6903.4	6694.9	6398.0	6037.2	5579.0	5021.9	4618.5	4049.2	3600.1	3116.0	2734.0
75°	4314.1	4020.3	3653.4	3193.7	2843.6	2391.5	2155.5	1723.2	1467.4	1243.7	1027.5
77.5°	2205.7	1985.0	1727.8	1469.0	1220.8	974.2	753.5	532.8	359.3	249.6	185.7
80°	1822.1	1627.3	1414.2	1178.2	959.0	744.4	535.8	365.3	232.9	152.2	118.7
82.5°	1505.5	1341.1	1150.8	931.6	741.3	584.5	406.4	264.9	164.4	106.6	83.7
85°	640.9	581.5	449.1	356.2	267.9	197.9	138.5	92.9	65.5	53.3	48.7
87.5°	27.4	30.4	28.9	22.8	16.7	16.7	15.2	12.2	12.2	12.2	12.2
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	249.6	248.1	246.6	246.6	245.1	243.6	234.4	226.8	217.7	211.6	205.5
5°	260.3	258.8	255.7	254.2	251.2	249.6	229.9	213.1	199.4	188.8	181.1
7.5°	271.0	269.4	264.9	260.3	258.8	255.7	223.8	202.5	184.2	172.0	164.4
10°	284.7	280.1	275.5	269.4	264.9	260.3	217.7	190.3	170.5	159.8	152.2
12.5°	304.5	296.8	289.2	281.6	275.5	267.9	214.6	179.6	159.8	147.7	140.0
15°	327.3	316.6	307.5	298.4	287.7	280.1	208.5	170.5	150.7	138.5	129.4
17.5°	348.6	336.4	322.7	309.0	298.4	287.7	202.5	161.4	141.6	129.4	120.3
20°	379.0	360.8	344.0	327.3	312.1	298.4	193.3	152.2	134.0	120.3	111.1
22.5°	412.5	391.2	369.9	347.1	327.3	309.0	185.7	144.6	126.3	112.6	102.0
25°	455.2	429.3	400.4	371.4	348.6	324.2	178.1	137.0	118.7	105.0	94.4
27.5°	514.5	478.0	446.0	409.5	374.5	347.1	172.0	130.9	111.1	97.4	86.8
30°	595.2	541.9	491.7	452.1	411.0	371.4	165.9	123.3	105.0	89.8	77.6
32.5°	685.0	622.6	564.8	505.4	453.6	408.0	159.8	117.2	97.4	82.2	71.5
35°	796.1	717.0	639.3	570.8	508.4	447.5	153.7	111.1	91.3	74.6	63.9
37.5°	956.0	857.0	755.0	666.7	586.1	505.4	149.2	105.0	83.7	67.0	56.3
40°	1175.2	1047.3	922.5	802.2	697.2	596.7	143.1	98.9	77.6	60.9	50.2
42.5°	1412.6	1257.4	1093.0	957.5	812.9	686.5	137.0	92.9	71.5	54.8	44.1
45°	1708.0	1514.6	1315.2	1131.0	954.5	791.6	130.9	86.8	63.9	48.7	38.1
47.5°	2030.7	1784.1	1558.8	1327.4	1117.3	922.5	123.3	82.2	57.8	42.6	33.5
50°	2362.5	2102.2	1817.6	1554.2	1304.6	1053.4	115.7	74.6	51.8	38.1	27.4
52.5°	2720.3	2412.8	2122.0	1794.7	1504.0	1225.4	108.1	68.5	47.2	33.5	22.8
55°	3175.4	2831.4	2490.4	2123.5	1773.4	1424.8	100.5	60.9	41.1	28.9	18.3
57.5°	3747.8	3339.8	2921.2	2507.1	2082.4	1686.7	94.4	53.3	35.0	24.4	15.2
60°	4288.2	3811.7	3304.8	2828.3	2348.8	1887.6	85.2	47.2	30.4	19.8	15.2
62.5°	4568.3	4024.8	3478.3	2953.2	2441.7	1959.1	76.1	39.6	25.9	16.7	13.7
65°	4499.8	3945.7	3415.9	2886.2	2385.4	1913.5	67.0	35.0	22.8	15.2	13.7
66°	4400.8	3852.8	3320.0	2816.2	2338.2	1864.8	62.4	33.5	21.3	15.2	12.2
67.5°	4184.7	3654.9	3146.5	2677.6	2208.8	1771.9	56.3	30.4	19.8	13.7	12.2
70°	3574.2	3093.2	2686.8	2269.7	1887.6	1493.3	45.7	25.9	16.7	12.2	12.2
72.5°	2365.6	2038.3	1767.3	1520.7	1271.1	986.4	38.1	21.3	13.7	12.2	10.7
75°	892.0	806.8	692.6	622.6	543.4	476.5	30.4	13.7	10.7	10.7	10.7
77.5°	158.3	146.1	129.4	118.7	109.6	100.5	24.4	9.1	9.1	10.7	10.7
80°	106.6	98.9	89.8	82.2	76.1	68.5	16.7	7.6	9.1	9.1	10.7
82.5°	76.1	71.5	67.0	60.9	56.3	50.2	10.7	7.6	9.1	9.1	9.1
85°	45.7	42.6	39.6	36.5	32.0	30.4	7.6	7.6	7.6	9.1	9.1
87.5°	12.2	10.7	12.2	12.2	9.1	10.7	6.1	6.1	6.1	7.6	7.6
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: P150679

CATALOG NUMBER: TLM-E05-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	239.0	239.0	239.0	239.0	239.0
2.5°	202.5	202.5	199.4	204.0	204.0
5°	175.1	175.1	173.5	175.1	175.1
7.5°	159.8	158.3	158.3	158.3	159.8
10°	146.1	144.6	144.6	144.6	144.6
12.5°	134.0	132.4	130.9	132.4	132.4
15°	123.3	120.3	120.3	120.3	120.3
17.5°	114.2	111.1	109.6	109.6	109.6
20°	105.0	100.5	100.5	100.5	100.5
22.5°	95.9	91.3	91.3	91.3	91.3
25°	86.8	82.2	82.2	82.2	82.2
27.5°	79.2	74.6	74.6	74.6	74.6
30°	70.0	67.0	67.0	68.5	67.0
32.5°	63.9	59.4	59.4	60.9	60.9
35°	56.3	53.3	53.3	53.3	53.3
37.5°	48.7	45.7	45.7	45.7	45.7
40°	42.6	39.6	38.1	39.6	39.6
42.5°	36.5	33.5	32.0	32.0	32.0
45°	32.0	27.4	25.9	27.4	27.4
47.5°	25.9	22.8	22.8	24.4	24.4
50°	19.8	19.8	21.3	24.4	24.4
52.5°	18.3	18.3	21.3	24.4	24.4
55°	16.7	18.3	21.3	22.8	24.4
57.5°	15.2	18.3	21.3	22.8	22.8
60°	15.2	16.7	19.8	22.8	22.8
62.5°	13.7	15.2	18.3	21.3	21.3
65°	13.7	15.2	18.3	21.3	21.3
66°	13.7	15.2	18.3	21.3	21.3
67.5°	13.7	15.2	18.3	21.3	21.3
70°	13.7	15.2	18.3	19.8	19.8
72.5°	12.2	13.7	16.7	19.8	19.8
75°	12.2	13.7	16.7	19.8	19.8
77.5°	12.2	13.7	16.7	19.8	19.8
80°	12.2	13.7	16.7	18.3	19.8
82.5°	10.7	13.7	15.2	18.3	18.3
85°	10.7	12.2	15.2	16.7	18.3
87.5°	9.1	10.7	12.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)