

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: P151828

Luminaire Tested: **TLM-E06-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151828  
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-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (126) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

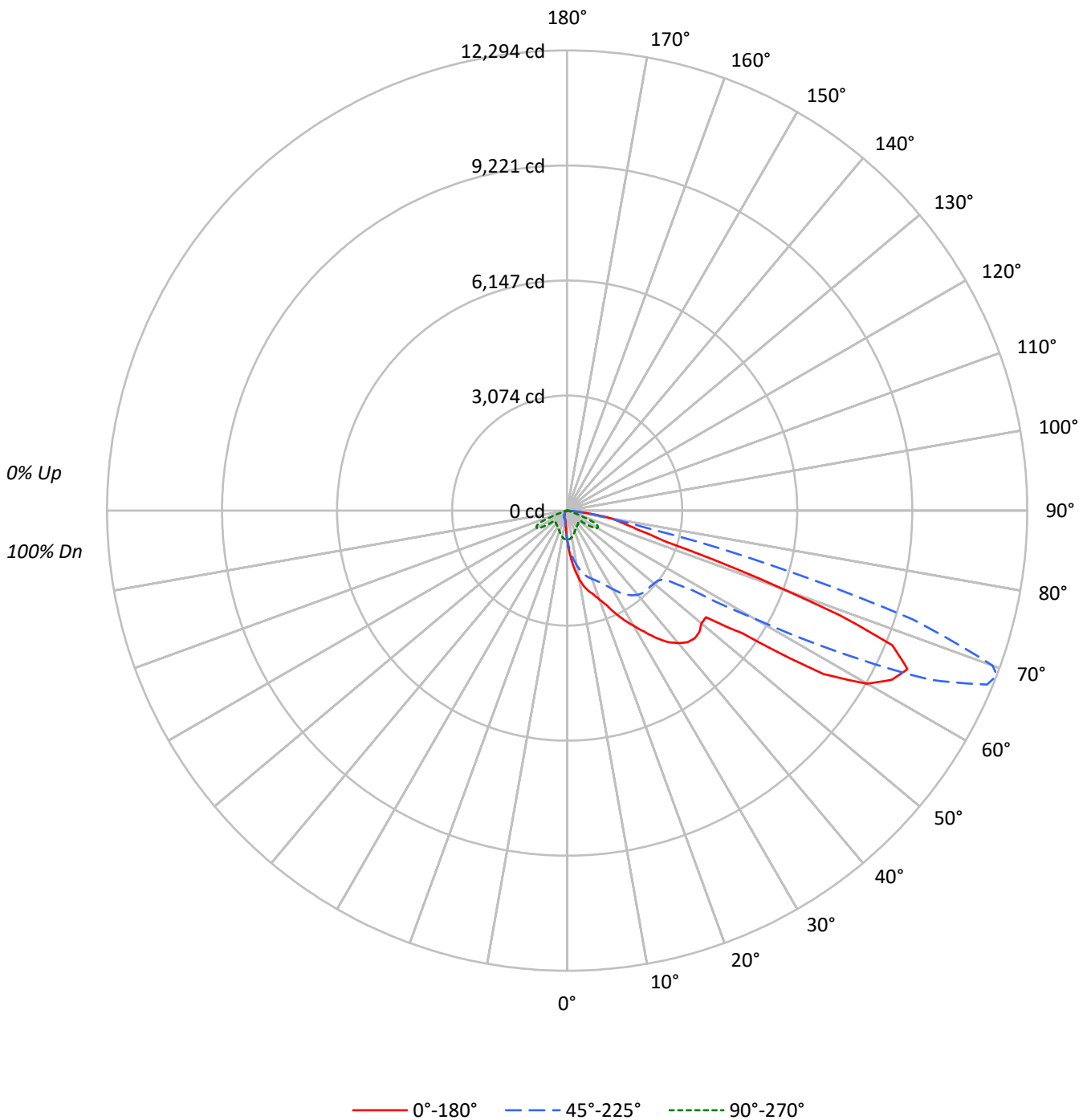
Lumens per Lamp: N/A  
Luminaire Lumens: 10304.2 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P151828  
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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	99	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58	55
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43	41
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33	31
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27	24
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22	19
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18	16
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15	13
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

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

	0°	90°	180°
0°	8376	8376	8376
5°	14318	8263	4395
10°	20387	7897	2823
15°	24792	7261	2559
20°	28925	6767	2321
25°	35805	6475	2045
30°	44184	6336	1741
35°	54609	6277	1464
40°	64965	6381	1352
45°	73438	6655	1388
50°	78467	7321	1273
55°	107227	12671	760
60°	199100	20096	545
65°	255460	21710	517
70°	192892	8979	585
75°	80312	3439	703
80°	73349	3242	942
85°	6459	2915	1667



TEST NUMBER: P151828

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-8030

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	0.8
10°-20°	275.8	2.7
20°-30°	527.8	5.1
30°-40°	877.7	8.5
40°-50°	1187.7	11.5
50°-60°	1857.5	18.0
60°-70°	3818.9	37.1
70°-80°	1536.7	14.9
80°-90°	142.1	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°	883.5	8.6
0°-40°	1761.3	17.1
0°-60°	4806.5	46.6
0°-90°	10304.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10304.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	1325	1128	765	486	407	143
15°	2225	1764	652	241	230	636
25°	3015	2124	545	192	172	1412
35°	4156	2741	478	137	111	2606
45°	4824	3001	437	90	91	3687
55°	5714	3190	675	59	40	5761
65°	10030	10695	852	29	20	9189
75°	1931	5631	83	12	17	2589
85°	52	226	24	8	14	324
90°	0	0	0	0	0	



TEST NUMBER: P151828

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2
2.5°	1038.1	1026.3	1012.8	1012.8	995.9	995.9	985.8	958.8	955.4	940.2	925.0
5°	1325.1	1314.9	1298.1	1282.9	1269.4	1245.7	1228.9	1196.8	1161.3	1127.6	1097.2
7.5°	1605.3	1600.2	1569.8	1564.8	1542.8	1504.0	1470.2	1423.0	1362.2	1314.9	1259.2
10°	1865.2	1853.4	1846.7	1818.0	1785.9	1743.7	1691.4	1634.0	1563.1	1488.8	1409.5
12.5°	2071.2	2064.4	2034.0	2022.2	1988.4	1946.2	1880.4	1806.1	1735.2	1639.0	1546.2
15°	2224.8	2212.9	2192.7	2174.1	2133.6	2096.5	2035.7	1954.7	1868.6	1763.9	1652.5
17.5°	2353.0	2331.1	2326.0	2297.3	2255.1	2211.3	2143.7	2069.5	1968.2	1863.5	1742.0
20°	2525.2	2494.8	2484.7	2442.5	2393.6	2332.8	2255.1	2162.3	2056.0	1941.2	1816.3
22.5°	2727.8	2705.8	2683.9	2646.8	2584.3	2498.2	2385.1	2283.8	2148.8	2022.2	1887.2
25°	3014.7	2996.2	2960.7	2910.1	2832.4	2729.5	2592.7	2444.2	2285.5	2123.5	1964.8
27.5°	3293.3	3276.4	3251.1	3212.2	3124.5	3011.4	2842.6	2653.5	2452.6	2256.8	2081.3
30°	3554.9	3539.7	3514.4	3475.6	3397.9	3286.5	3095.8	2893.2	2643.4	2415.5	2204.5
32.5°	3836.8	3831.7	3803.0	3747.3	3679.8	3529.6	3321.9	3104.2	2851.0	2587.7	2341.2
35°	4155.8	4117.0	4090.0	4034.3	3919.5	3759.1	3516.1	3278.1	3011.4	2741.3	2466.1
37.5°	4425.9	4388.8	4355.0	4284.1	4144.0	3939.7	3664.6	3403.0	3127.8	2852.7	2572.5
40°	4623.4	4604.8	4564.3	4471.5	4314.5	4071.4	3774.3	3489.1	3212.2	2935.4	2658.6
42.5°	4770.2	4741.5	4696.0	4599.8	4414.1	4137.2	3818.2	3524.5	3251.1	2986.0	2714.3
45°	4824.3	4800.6	4758.4	4653.8	4452.9	4155.8	3816.5	3514.4	3252.7	3001.2	2751.4
47.5°	4792.2	4768.5	4731.4	4633.5	4436.0	4133.9	3786.1	3485.7	3235.9	3006.3	2785.2
50°	4685.8	4672.3	4643.6	4560.9	4383.7	4091.7	3759.1	3470.5	3232.5	3031.6	2832.4
52.5°	4675.7	4667.3	4631.8	4549.1	4368.5	4078.2	3755.8	3478.9	3261.2	3063.7	2866.2
55°	5713.8	5594.0	5325.6	5097.7	4723.0	4277.3	3926.2	3615.7	3382.7	3190.3	3051.9
57.5°	8120.9	7942.0	7589.2	7155.4	6294.5	5448.8	4771.9	4282.4	4041.0	3953.3	4005.6
60°	9248.5	9216.4	9160.7	8954.7	8514.2	7786.7	6976.4	6100.4	5749.3	5718.9	5825.2
62.5°	9783.5	9763.3	9780.2	9754.8	9618.1	9405.4	9172.5	8794.4	8446.7	8222.2	7746.1
65°	10030.0	10043.5	10139.7	10215.7	10232.5	10288.2	10458.7	10929.7	11274.0	10695.1	9373.4
67.5°	9403.7	9483.1	9704.2	9981.0	10305.1	10619.1	11125.5	12118.0	12825.3	12145.0	10268.0
69°	7785.0	7823.8	8364.0	8885.5	9677.2	10230.9	10965.1	12266.6	13061.6	12293.6	10197.1
70°	6129.1	6164.5	6743.5	7452.4	8791.0	9503.3	10463.8	12015.1	12840.5	12096.1	9832.5
72.5°	2764.9	2714.3	2918.5	3298.3	4753.4	5884.3	7563.8	9734.6	10593.8	9690.7	7356.2
75°	1931.1	1909.1	1931.1	1932.7	2158.9	2785.2	3514.4	5276.6	6525.7	5631.1	3514.4
77.5°	1495.6	1480.4	1465.2	1448.3	1475.3	1652.5	1723.4	1872.0	2430.7	2299.0	1340.3
80°	1183.3	1169.8	1206.9	1195.1	1195.1	1215.3	1201.8	1146.1	1041.5	965.5	864.2
82.5°	550.3	553.7	553.7	600.9	724.1	845.7	884.5	828.8	736.0	626.2	504.7
85°	52.3	59.1	99.6	153.6	305.5	344.3	346.0	287.0	287.0	226.2	182.3
87.5°	0.0	1.7	1.7	1.7	15.2	42.2	35.4	10.1	5.1	5.1	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: P151828

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2
2.5°	898.0	892.9	872.7	852.4	833.9	813.6	795.0	776.5	756.2	741.0	722.5
5°	1049.9	1012.8	970.6	930.1	889.6	847.4	803.5	764.7	724.1	687.0	651.6
7.5°	1203.5	1130.9	1073.6	1001.0	935.1	869.3	808.5	746.1	688.7	634.7	584.0
10°	1333.5	1245.7	1156.3	1063.4	968.9	881.1	796.7	722.5	646.5	580.7	518.2
12.5°	1439.8	1328.4	1218.7	1102.3	995.9	884.5	779.8	690.4	600.9	526.7	462.5
15°	1536.1	1407.8	1276.1	1141.1	1006.0	879.4	763.0	651.6	560.4	476.0	403.4
17.5°	1613.7	1466.9	1318.3	1166.4	1021.2	872.7	741.0	624.6	518.2	430.4	359.5
20°	1681.2	1527.6	1367.3	1196.8	1031.4	871.0	722.5	590.8	481.1	388.2	319.0
22.5°	1743.7	1590.1	1417.9	1235.6	1046.5	869.3	705.6	565.5	449.0	356.2	287.0
25°	1814.6	1652.5	1471.9	1276.1	1073.6	876.1	695.4	545.2	420.3	325.8	261.6
27.5°	1893.9	1723.4	1536.1	1326.8	1109.0	889.6	692.1	523.3	395.0	297.1	241.4
30°	2005.3	1807.8	1600.2	1377.4	1141.1	904.8	688.7	509.8	369.7	275.1	221.1
32.5°	2103.2	1890.5	1671.1	1429.7	1176.5	920.0	687.0	491.2	346.0	253.2	205.9
35°	2206.2	1966.5	1731.9	1480.4	1206.9	936.8	685.3	477.7	324.1	231.3	190.7
37.5°	2295.7	2030.6	1779.1	1524.2	1240.7	952.0	687.0	465.9	303.8	212.7	177.2
40°	2371.6	2096.5	1831.5	1564.8	1276.1	975.7	688.7	454.1	283.6	195.8	165.4
42.5°	2439.1	2158.9	1887.2	1610.3	1316.6	1002.7	698.8	443.9	266.7	180.6	153.6
45°	2491.5	2216.3	1947.9	1674.5	1382.5	1046.5	717.4	437.2	249.8	167.1	143.5
47.5°	2545.5	2300.7	2050.9	1775.8	1478.7	1115.8	749.5	435.5	236.3	157.0	135.0
50°	2619.7	2385.1	2142.0	1878.7	1566.4	1186.7	788.3	437.2	219.4	146.9	126.6
52.5°	2673.8	2471.2	2260.2	2057.6	1775.8	1402.7	938.5	467.6	211.0	138.4	116.5
55°	2992.8	2957.3	2962.4	2996.2	2778.4	2386.8	1569.8	675.2	248.1	157.0	114.8
57.5°	4220.0	4344.9	4417.4	4415.8	4056.2	3364.1	2108.3	867.6	276.8	182.3	136.7
60°	5833.7	5739.1	5605.8	5276.6	4798.9	3840.2	2358.1	933.5	239.7	145.2	124.9
62.5°	7260.0	6706.4	6215.1	5681.7	5055.5	4005.6	2408.8	928.4	209.3	109.7	87.8
65°	8149.6	7153.7	6360.3	5691.9	4954.2	3867.2	2278.8	852.4	177.2	89.5	72.6
67.5°	8362.3	6912.3	5789.8	4937.3	4138.9	3009.7	1672.8	641.4	138.4	74.3	64.1
69°	7898.1	6144.3	4797.2	3830.0	3011.4	1996.9	1034.7	405.1	106.3	67.5	59.1
70°	7265.1	5344.2	3907.7	3073.8	2229.8	1402.7	724.1	285.3	86.1	62.5	54.0
72.5°	4674.0	2807.1	1920.9	1336.9	920.0	558.7	283.6	128.3	65.8	52.3	43.9
75°	1812.9	1038.1	752.8	572.2	447.3	310.6	172.2	82.7	55.7	43.9	33.8
77.5°	892.9	683.6	558.7	383.2	222.8	138.4	92.8	64.1	45.6	32.1	21.9
80°	705.6	469.3	280.2	173.9	131.7	99.6	70.9	52.3	33.8	20.3	15.2
82.5°	361.2	197.5	145.2	118.2	97.9	77.6	57.4	37.1	21.9	13.5	11.8
85°	113.1	82.7	74.3	72.6	67.5	55.7	40.5	23.6	13.5	8.4	8.4
87.5°	8.4	11.8	15.2	11.8	13.5	11.8	15.2	10.1	6.8	6.8	5.1
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: P151828

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2	778.2
2.5°	709.0	688.7	670.1	658.3	636.4	627.9	619.5	616.1	600.9	604.3	590.8
5°	619.5	584.0	557.0	530.0	504.7	486.1	470.9	452.4	437.2	430.4	416.9
7.5°	538.5	492.9	457.4	428.7	398.4	374.7	354.5	341.0	327.5	314.0	307.2
10°	467.6	418.6	378.1	349.4	320.7	300.5	285.3	275.1	266.7	261.6	259.9
12.5°	401.7	354.5	317.3	292.0	270.1	259.9	253.2	248.1	246.4	244.8	244.8
15°	351.1	303.8	275.1	256.6	246.4	241.4	239.7	236.3	232.9	231.3	231.3
17.5°	303.8	268.4	248.1	238.0	232.9	229.6	226.2	222.8	219.4	217.7	217.7
20°	271.8	243.1	232.9	226.2	221.1	217.7	212.7	209.3	207.6	205.9	204.2
22.5°	246.4	227.9	221.1	216.1	209.3	204.2	200.9	197.5	194.1	192.4	190.7
25°	227.9	216.1	211.0	204.2	197.5	192.4	187.4	182.3	178.9	177.2	173.9
27.5°	214.4	205.9	199.2	190.7	184.0	178.9	173.9	168.8	165.4	162.0	160.4
30°	202.6	194.1	185.7	178.9	170.5	165.4	158.7	153.6	151.9	148.5	145.2
32.5°	190.7	182.3	173.9	165.4	157.0	150.2	146.9	140.1	136.7	135.0	131.7
35°	177.2	168.8	158.7	151.9	143.5	136.7	131.7	126.6	123.2	119.8	118.2
37.5°	165.4	155.3	145.2	136.7	130.0	123.2	118.2	113.1	109.7	106.3	104.7
40°	151.9	141.8	131.7	123.2	116.5	111.4	106.3	101.3	97.9	96.2	96.2
42.5°	140.1	128.3	118.2	111.4	106.3	99.6	94.5	89.5	87.8	86.1	87.8
45°	128.3	116.5	108.0	101.3	96.2	89.5	84.4	81.0	79.3	81.0	82.7
47.5°	118.2	106.3	97.9	92.8	87.8	82.7	77.6	74.3	74.3	77.6	81.0
50°	108.0	96.2	89.5	86.1	81.0	76.0	69.2	67.5	69.2	72.6	76.0
52.5°	97.9	84.4	79.3	77.6	72.6	67.5	62.5	60.8	62.5	65.8	64.1
55°	87.8	74.3	72.6	70.9	65.8	59.1	54.0	54.0	54.0	52.3	49.0
57.5°	84.4	65.8	64.1	62.5	57.4	50.6	47.3	43.9	42.2	37.1	35.4
60°	87.8	59.1	59.1	55.7	50.6	43.9	38.8	33.8	30.4	27.0	27.0
62.5°	70.9	54.0	52.3	49.0	42.2	35.4	30.4	25.3	23.6	21.9	21.9
65°	57.4	49.0	45.6	40.5	35.4	28.7	23.6	20.3	18.6	18.6	20.3
67.5°	52.3	43.9	38.8	33.8	28.7	21.9	18.6	16.9	16.9	18.6	18.6
69°	49.0	40.5	35.4	30.4	25.3	20.3	16.9	16.9	16.9	16.9	18.6
70°	45.6	38.8	33.8	28.7	21.9	16.9	15.2	15.2	16.9	16.9	18.6
72.5°	35.4	30.4	28.7	23.6	16.9	15.2	13.5	15.2	15.2	16.9	16.9
75°	27.0	21.9	21.9	18.6	13.5	11.8	11.8	13.5	13.5	15.2	15.2
77.5°	18.6	15.2	15.2	13.5	11.8	10.1	10.1	11.8	13.5	13.5	15.2
80°	13.5	11.8	10.1	11.8	10.1	8.4	10.1	11.8	11.8	13.5	13.5
82.5°	10.1	10.1	10.1	10.1	8.4	8.4	10.1	10.1	11.8	13.5	13.5
85°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.1	10.1	11.8	11.8
87.5°	5.1	5.1	5.1	6.8	6.8	8.4	8.4	8.4	8.4	10.1	10.1
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: P151828

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	778.2	778.2	778.2	778.2
2.5°	587.4	585.7	579.0	580.7
5°	411.9	401.7	408.5	406.8
7.5°	302.1	300.5	298.8	302.1
10°	258.3	258.3	256.6	258.3
12.5°	243.1	243.1	243.1	243.1
15°	231.3	231.3	229.6	229.6
17.5°	217.7	217.7	217.7	216.1
20°	204.2	202.6	202.6	202.6
22.5°	189.1	187.4	187.4	187.4
25°	173.9	172.2	172.2	172.2
27.5°	158.7	157.0	155.3	155.3
30°	143.5	141.8	140.1	140.1
32.5°	128.3	126.6	124.9	124.9
35°	114.8	114.8	113.1	111.4
37.5°	103.0	103.0	103.0	103.0
40°	94.5	96.2	96.2	96.2
42.5°	89.5	91.2	92.8	94.5
45°	86.1	89.5	91.2	91.2
47.5°	84.4	86.1	87.8	87.8
50°	77.6	76.0	76.0	76.0
52.5°	62.5	59.1	57.4	55.7
55°	45.6	43.9	40.5	40.5
57.5°	32.1	32.1	30.4	30.4
60°	25.3	25.3	23.6	25.3
62.5°	21.9	21.9	21.9	21.9
65°	20.3	20.3	20.3	20.3
67.5°	20.3	20.3	20.3	20.3
69°	18.6	18.6	18.6	18.6
70°	18.6	18.6	18.6	18.6
72.5°	16.9	16.9	16.9	16.9
75°	15.2	16.9	16.9	16.9
77.5°	15.2	15.2	15.2	15.2
80°	13.5	13.5	15.2	15.2
82.5°	13.5	13.5	13.5	13.5
85°	11.8	11.8	13.5	13.5
87.5°	10.1	10.1	11.8	11.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)