

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: P151798

Luminaire Tested: **TLM-E03-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151798
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-E03-LED-E1-SL4-HSS-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

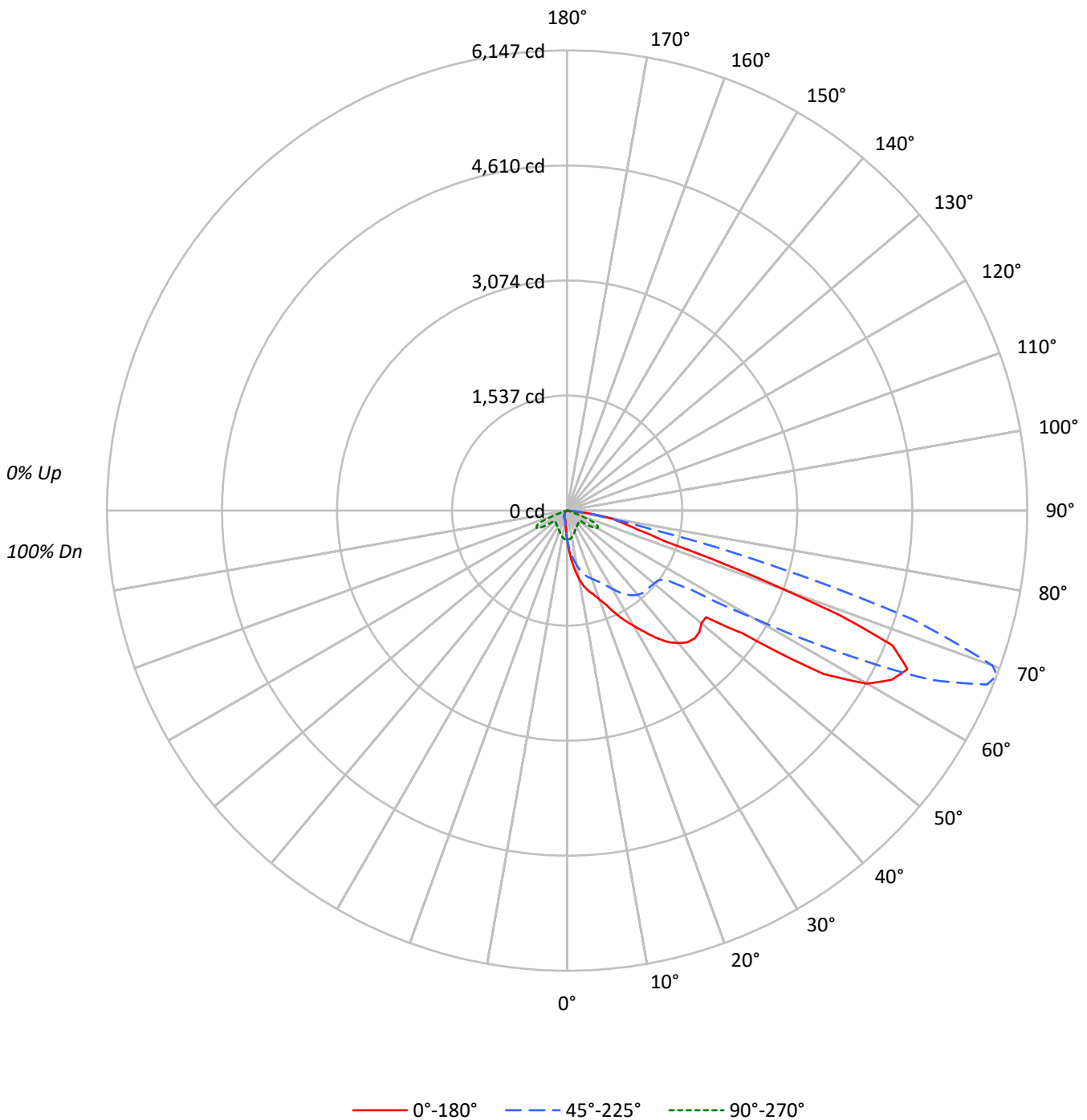
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14317	8262	4395
10°	20387	7896	2822
15°	24792	7261	2559
20°	28925	6767	2321
25°	35806	6475	2045
30°	44183	6336	1743
35°	54609	6276	1464
40°	64965	6379	1352
45°	73436	6655	1388
50°	78467	7321	1273
55°	107227	12671	762
60°	199098	20094	547
65°	255460	21710	514
70°	192889	8976	585
75°	80308	3444	699
80°	73343	3248	942
85°	6472	2915	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	0.8
10°-20°	137.9	2.7
20°-30°	263.9	5.1
30°-40°	438.9	8.5
40°-50°	593.9	11.5
50°-60°	928.7	18.0
60°-70°	1909.4	37.1
70°-80°	768.3	14.9
80°-90°	71.1	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°	441.8	8.6
0°-40°	880.6	17.1
0°-60°	2403.2	46.6
0°-90°	5152.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5152.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	389	389	389	389	389	
5°	662	564	382	243	203	71
15°	1112	882	326	121	115	318
25°	1507	1062	273	96	86	706
35°	2078	1371	239	68	56	1303
45°	2412	1501	219	45	46	1844
55°	2857	1595	338	30	20	2881
65°	5015	5348	426	14	10	4594
75°	966	2816	41	6	8	1294
85°	26	113	12	4	7	162
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°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	519.1	513.1	506.4	506.4	498.0	498.0	492.9	479.4	477.7	470.1	462.5
5°	662.5	657.5	649.0	641.4	634.7	622.9	614.4	598.4	580.7	563.8	548.6
7.5°	802.6	800.1	784.9	782.4	771.4	752.0	735.1	711.5	681.1	657.5	629.6
10°	932.6	926.7	923.3	909.0	892.9	871.8	845.7	817.0	781.5	744.4	704.7
12.5°	1035.6	1032.2	1017.0	1011.1	994.2	973.1	940.2	903.1	867.6	819.5	773.1
15°	1112.4	1106.5	1096.3	1087.1	1066.8	1048.2	1017.9	977.3	934.3	882.0	826.3
17.5°	1176.5	1165.6	1163.0	1148.7	1127.6	1105.6	1071.9	1034.7	984.1	931.8	871.0
20°	1262.6	1247.4	1242.4	1221.3	1196.8	1166.4	1127.6	1081.2	1028.0	970.6	908.1
22.5°	1363.9	1352.9	1341.9	1323.4	1292.2	1249.1	1192.6	1141.9	1074.4	1011.1	943.6
25°	1507.4	1498.1	1480.4	1455.0	1416.2	1364.7	1296.4	1222.1	1142.8	1061.7	982.4
27.5°	1646.6	1638.2	1625.5	1606.1	1562.2	1505.7	1421.3	1326.8	1226.3	1128.4	1040.6
30°	1777.4	1769.8	1757.2	1737.8	1699.0	1643.3	1547.9	1446.6	1321.7	1207.8	1102.3
32.5°	1918.4	1915.9	1901.5	1873.7	1839.9	1764.8	1661.0	1552.1	1425.5	1293.8	1170.6
35°	2077.9	2058.5	2045.0	2017.1	1959.7	1879.6	1758.0	1639.0	1505.7	1370.6	1233.1
37.5°	2212.9	2194.4	2177.5	2142.0	2072.0	1969.9	1832.3	1701.5	1563.9	1426.3	1286.2
40°	2311.7	2302.4	2282.2	2235.7	2157.2	2035.7	1887.2	1744.5	1606.1	1467.7	1329.3
42.5°	2385.1	2370.8	2348.0	2299.9	2207.0	2068.6	1909.1	1762.3	1625.5	1493.0	1357.1
45°	2412.1	2400.3	2379.2	2326.9	2226.4	2077.9	1908.3	1757.2	1626.4	1500.6	1375.7
47.5°	2396.1	2384.3	2365.7	2316.8	2218.0	2066.9	1893.1	1742.8	1617.9	1503.1	1392.6
50°	2342.9	2336.2	2321.8	2280.5	2191.8	2045.8	1879.6	1735.2	1616.2	1515.8	1416.2
52.5°	2337.9	2333.6	2315.9	2274.6	2184.2	2039.1	1877.9	1739.5	1630.6	1531.8	1433.1
55°	2856.9	2797.0	2662.8	2548.9	2361.5	2138.7	1963.1	1807.8	1691.4	1595.1	1525.9
57.5°	4060.4	3971.0	3794.6	3577.7	3147.2	2724.4	2386.0	2141.2	2020.5	1976.6	2002.8
60°	4624.2	4608.2	4580.3	4477.4	4257.1	3893.3	3488.2	3050.2	2874.6	2859.4	2912.6
62.5°	4891.8	4881.6	4890.1	4877.4	4809.1	4702.7	4586.2	4397.2	4223.3	4111.1	3873.1
65°	5015.0	5021.7	5069.9	5107.8	5116.3	5144.1	5229.4	5464.8	5637.0	5347.5	4686.7
67.5°	4701.9	4741.5	4852.1	4990.5	5152.6	5309.5	5562.7	6059.0	6412.6	6072.5	5134.0
69°	3892.5	3911.9	4182.0	4442.8	4838.6	5115.4	5482.6	6133.3	6530.8	6146.8	5098.5
70°	3064.5	3082.3	3371.7	3726.2	4395.5	4751.7	5231.9	6007.5	6420.2	6048.0	4916.2
72.5°	1382.5	1357.1	1459.3	1649.2	2376.7	2942.2	3781.9	4867.3	5296.9	4845.4	3678.1
75°	965.5	954.6	965.5	966.4	1079.5	1392.6	1757.2	2638.3	3262.9	2815.6	1757.2
77.5°	747.8	740.2	732.6	724.1	737.6	826.3	861.7	936.0	1215.3	1149.5	670.1
80°	591.6	584.9	603.5	597.5	597.5	607.7	600.9	573.1	520.7	482.8	432.1
82.5°	275.1	276.8	276.8	300.5	362.1	422.8	442.3	414.4	368.0	313.1	252.4
85°	26.2	29.5	49.8	76.8	152.8	172.2	173.0	143.5	143.5	113.1	91.2
87.5°	0.0	0.8	0.8	0.8	7.6	21.1	17.7	5.1	2.5	2.5	4.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	449.0	446.5	436.3	426.2	416.9	406.8	397.5	388.2	378.1	370.5	361.2
5°	525.0	506.4	485.3	465.0	444.8	423.7	401.7	382.3	362.1	343.5	325.8
7.5°	601.8	565.5	536.8	500.5	467.6	434.7	404.3	373.0	344.3	317.3	292.0
10°	666.8	622.9	578.1	531.7	484.5	440.6	398.4	361.2	323.2	290.3	259.1
12.5°	719.9	664.2	609.4	551.1	498.0	442.3	389.9	345.2	300.5	263.3	231.3
15°	768.0	703.9	638.1	570.5	503.0	439.7	381.5	325.8	280.2	238.0	201.7
17.5°	806.9	733.4	659.2	583.2	510.6	436.3	370.5	312.3	259.1	215.2	179.8
20°	840.6	763.8	683.6	598.4	515.7	435.5	361.2	295.4	240.5	194.1	159.5
22.5°	871.8	795.0	709.0	617.8	523.3	434.7	352.8	282.7	224.5	178.1	143.5
25°	907.3	826.3	736.0	638.1	536.8	438.0	347.7	272.6	210.2	162.9	130.8
27.5°	947.0	861.7	768.0	663.4	554.5	444.8	346.0	261.6	197.5	148.5	120.7
30°	1002.7	903.9	800.1	688.7	570.5	452.4	344.3	254.9	184.8	137.6	110.6
32.5°	1051.6	945.3	835.6	714.9	588.3	460.0	343.5	245.6	173.0	126.6	103.0
35°	1103.1	983.2	865.9	740.2	603.5	468.4	342.7	238.8	162.0	115.6	95.4
37.5°	1147.8	1015.3	889.6	762.1	620.3	476.0	343.5	232.9	151.9	106.3	88.6
40°	1185.8	1048.2	915.7	782.4	638.1	487.8	344.3	227.0	141.8	97.9	82.7
42.5°	1219.6	1079.5	943.6	805.2	658.3	501.3	349.4	222.0	133.4	90.3	76.8
45°	1245.7	1108.2	974.0	837.2	691.2	523.3	358.7	218.6	124.9	83.6	71.7
47.5°	1272.7	1150.4	1025.4	887.9	739.3	557.9	374.7	217.7	118.2	78.5	67.5
50°	1309.9	1192.6	1071.0	939.4	783.2	593.3	394.1	218.6	109.7	73.4	63.3
52.5°	1336.9	1235.6	1130.1	1028.8	887.9	701.4	469.3	233.8	105.5	69.2	58.2
55°	1496.4	1478.7	1481.2	1498.1	1389.2	1193.4	784.9	337.6	124.1	78.5	57.4
57.5°	2110.0	2172.4	2208.7	2207.9	2028.1	1682.1	1054.1	433.8	138.4	91.2	68.4
60°	2916.8	2869.6	2802.9	2638.3	2399.5	1920.1	1179.1	466.7	119.8	72.6	62.5
62.5°	3630.0	3353.2	3107.6	2840.9	2527.8	2002.8	1204.4	464.2	104.7	54.9	43.9
65°	4074.8	3576.8	3180.2	2845.9	2477.1	1933.6	1139.4	426.2	88.6	44.7	36.3
67.5°	4181.1	3456.1	2894.9	2468.7	2069.5	1504.8	836.4	320.7	69.2	37.1	32.1
69°	3949.0	3072.1	2398.6	1915.0	1505.7	998.4	517.4	202.6	53.2	33.8	29.5
70°	3632.5	2672.1	1953.8	1536.9	1114.9	701.4	362.1	142.6	43.0	31.2	27.0
72.5°	2337.0	1403.6	960.5	668.4	460.0	279.4	141.8	64.1	32.9	26.2	21.9
75°	906.4	519.1	376.4	286.1	223.7	155.3	86.1	41.4	27.9	21.9	16.9
77.5°	446.5	341.8	279.4	191.6	111.4	69.2	46.4	32.1	22.8	16.0	11.0
80°	352.8	234.6	140.1	86.9	65.8	49.8	35.4	26.2	16.9	10.1	7.6
82.5°	180.6	98.7	72.6	59.1	49.0	38.8	28.7	18.6	11.0	6.8	5.9
85°	56.5	41.4	37.1	36.3	33.8	27.9	20.3	11.8	6.8	4.2	4.2
87.5°	4.2	5.9	7.6	5.9	6.8	5.9	7.6	5.1	3.4	3.4	2.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1	389.1
2.5°	354.5	344.3	335.1	329.2	318.2	314.0	309.7	308.1	300.5	302.1	295.4
5°	309.7	292.0	278.5	265.0	252.4	243.1	235.5	226.2	218.6	215.2	208.5
7.5°	269.2	246.4	228.7	214.4	199.2	187.4	177.2	170.5	163.7	157.0	153.6
10°	233.8	209.3	189.1	174.7	160.4	150.2	142.6	137.6	133.4	130.8	130.0
12.5°	200.9	177.2	158.7	146.0	135.0	130.0	126.6	124.1	123.2	122.4	122.4
15°	175.6	151.9	137.6	128.3	123.2	120.7	119.8	118.2	116.5	115.6	115.6
17.5°	151.9	134.2	124.1	119.0	116.5	114.8	113.1	111.4	109.7	108.9	108.9
20°	135.9	121.5	116.5	113.1	110.6	108.9	106.3	104.7	103.8	103.0	102.1
22.5°	123.2	113.9	110.6	108.0	104.7	102.1	100.4	98.7	97.1	96.2	95.4
25°	113.9	108.0	105.5	102.1	98.7	96.2	93.7	91.2	89.5	88.6	86.9
27.5°	107.2	103.0	99.6	95.4	92.0	89.5	86.9	84.4	82.7	81.0	80.2
30°	101.3	97.1	92.8	89.5	85.2	82.7	79.3	76.8	76.0	74.3	72.6
32.5°	95.4	91.2	86.9	82.7	78.5	75.1	73.4	70.1	68.4	67.5	65.8
35°	88.6	84.4	79.3	76.0	71.7	68.4	65.8	63.3	61.6	59.9	59.1
37.5°	82.7	77.6	72.6	68.4	65.0	61.6	59.1	56.5	54.9	53.2	52.3
40°	76.0	70.9	65.8	61.6	58.2	55.7	53.2	50.6	49.0	48.1	48.1
42.5°	70.1	64.1	59.1	55.7	53.2	49.8	47.3	44.7	43.9	43.0	43.9
45°	64.1	58.2	54.0	50.6	48.1	44.7	42.2	40.5	39.7	40.5	41.4
47.5°	59.1	53.2	49.0	46.4	43.9	41.4	38.8	37.1	37.1	38.8	40.5
50°	54.0	48.1	44.7	43.0	40.5	38.0	34.6	33.8	34.6	36.3	38.0
52.5°	49.0	42.2	39.7	38.8	36.3	33.8	31.2	30.4	31.2	32.9	32.1
55°	43.9	37.1	36.3	35.4	32.9	29.5	27.0	27.0	27.0	26.2	24.5
57.5°	42.2	32.9	32.1	31.2	28.7	25.3	23.6	21.9	21.1	18.6	17.7
60°	43.9	29.5	29.5	27.9	25.3	21.9	19.4	16.9	15.2	13.5	13.5
62.5°	35.4	27.0	26.2	24.5	21.1	17.7	15.2	12.7	11.8	11.0	11.0
65°	28.7	24.5	22.8	20.3	17.7	14.3	11.8	10.1	9.3	9.3	10.1
67.5°	26.2	21.9	19.4	16.9	14.3	11.0	9.3	8.4	8.4	9.3	9.3
69°	24.5	20.3	17.7	15.2	12.7	10.1	8.4	8.4	8.4	8.4	9.3
70°	22.8	19.4	16.9	14.3	11.0	8.4	7.6	7.6	8.4	8.4	9.3
72.5°	17.7	15.2	14.3	11.8	8.4	7.6	6.8	7.6	7.6	8.4	8.4
75°	13.5	11.0	11.0	9.3	6.8	5.9	5.9	6.8	6.8	7.6	7.6
77.5°	9.3	7.6	7.6	6.8	5.9	5.1	5.1	5.9	6.8	6.8	7.6
80°	6.8	5.9	5.1	5.9	5.1	4.2	5.1	5.9	5.9	6.8	6.8
82.5°	5.1	5.1	5.1	5.1	4.2	4.2	5.1	5.1	5.9	6.8	6.8
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.1	5.1	5.9	5.9
87.5°	2.5	2.5	2.5	3.4	3.4	4.2	4.2	4.2	4.2	5.1	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: P151798

CATALOG NUMBER: TLM-E03-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	389.1	389.1	389.1	389.1
2.5°	293.7	292.9	289.5	290.3
5°	205.9	200.9	204.2	203.4
7.5°	151.1	150.2	149.4	151.1
10°	129.1	129.1	128.3	129.1
12.5°	121.5	121.5	121.5	121.5
15°	115.6	115.6	114.8	114.8
17.5°	108.9	108.9	108.9	108.0
20°	102.1	101.3	101.3	101.3
22.5°	94.5	93.7	93.7	93.7
25°	86.9	86.1	86.1	86.1
27.5°	79.3	78.5	77.6	77.6
30°	71.7	70.9	70.1	70.1
32.5°	64.1	63.3	62.5	62.5
35°	57.4	57.4	56.5	55.7
37.5°	51.5	51.5	51.5	51.5
40°	47.3	48.1	48.1	48.1
42.5°	44.7	45.6	46.4	47.3
45°	43.0	44.7	45.6	45.6
47.5°	42.2	43.0	43.9	43.9
50°	38.8	38.0	38.0	38.0
52.5°	31.2	29.5	28.7	27.9
55°	22.8	21.9	20.3	20.3
57.5°	16.0	16.0	15.2	15.2
60°	12.7	12.7	11.8	12.7
62.5°	11.0	11.0	11.0	11.0
65°	10.1	10.1	10.1	10.1
67.5°	10.1	10.1	10.1	10.1
69°	9.3	9.3	9.3	9.3
70°	9.3	9.3	9.3	9.3
72.5°	8.4	8.4	8.4	8.4
75°	7.6	8.4	8.4	8.4
77.5°	7.6	7.6	7.6	7.6
80°	6.8	6.8	7.6	7.6
82.5°	6.8	6.8	6.8	6.8
85°	5.9	5.9	6.8	6.8
87.5°	5.1	5.1	5.9	5.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)