

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: P151829

Luminaire Tested: **TLM-E06-LED-E1-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151829
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-7030
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, 70 CRI LEDs
Ballast/Driver: -

Summary

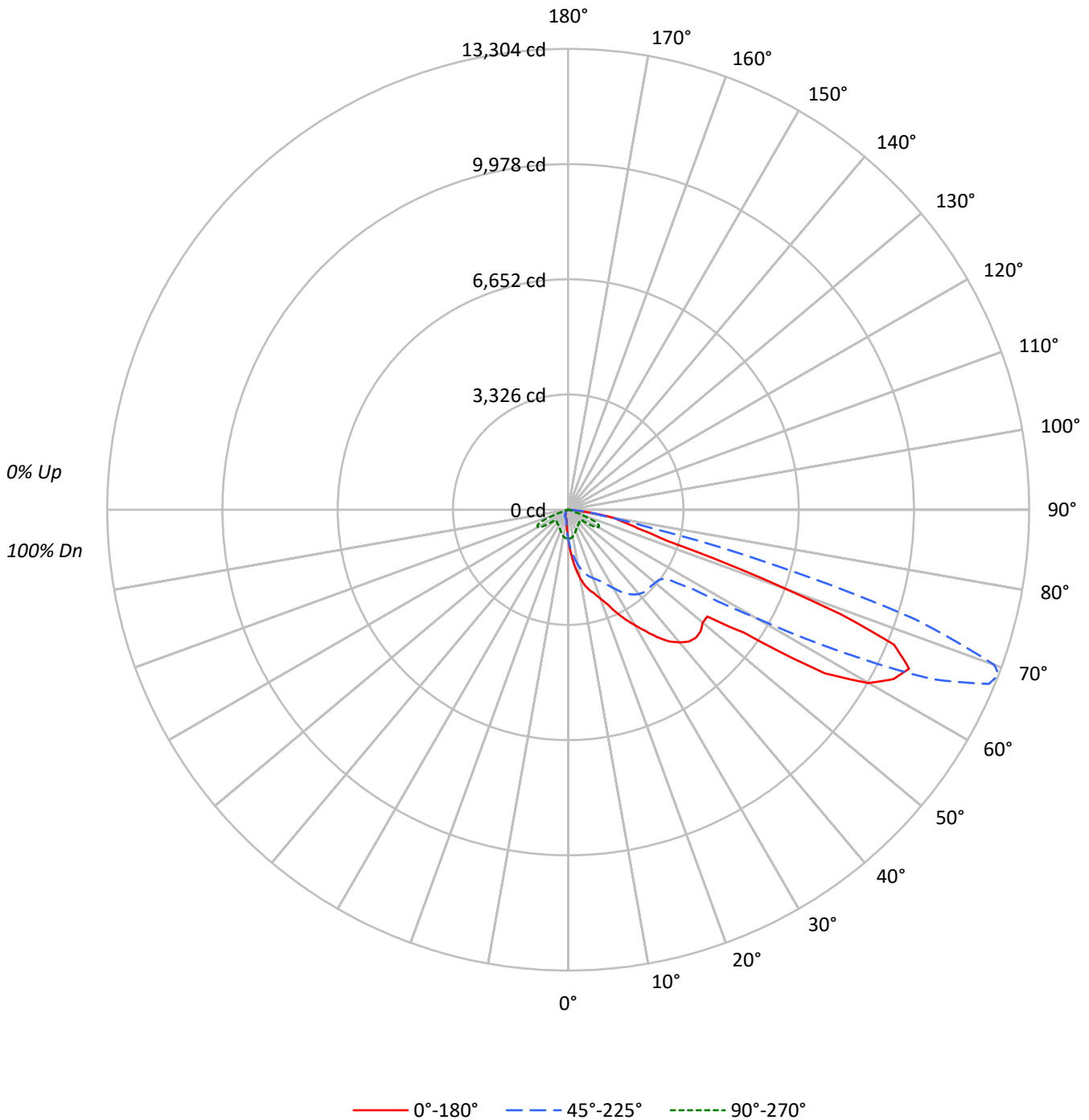
Lumens per Lamp: N/A
Luminaire Lumens: 11151.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{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°	9064	9064	9064
5°	15494	8941	4756
10°	22062	8545	3055
15°	26829	7857	2768
20°	31302	7323	2511
25°	38748	7007	2213
30°	47815	6857	1884
35°	59096	6794	1585
40°	70303	6905	1463
45°	79472	7202	1501
50°	84916	7922	1376
55°	116040	13713	822
60°	215461	21747	590
65°	276455	23496	558
70°	208745	9715	633
75°	86908	3722	761
80°	79374	3508	1017
85°	6990	3162	1803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	0.8
10°-20°	298.4	2.7
20°-30°	571.2	5.1
30°-40°	949.9	8.5
40°-50°	1285.3	11.5
50°-60°	2010.1	18.0
60°-70°	4132.7	37.1
70°-80°	1662.9	14.9
80°-90°	153.8	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°	956.1	8.6
0°-40°	1906.0	17.1
0°-60°	5201.4	46.6
0°-90°	11151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	842	842	842	842	842	
5°	1434	1220	828	526	440	154
15°	2408	1909	705	261	248	688
25°	3262	2298	590	208	186	1528
35°	4497	2967	517	148	121	2820
45°	5221	3248	473	97	99	3990
55°	6183	3452	731	64	44	6235
65°	10854	11574	922	31	22	9944
75°	2090	6094	90	13	18	2801
85°	57	245	26	9	15	351
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°	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1
2.5°	1123.4	1110.6	1096.0	1096.0	1077.8	1077.8	1066.8	1037.6	1033.9	1017.5	1001.0
5°	1434.0	1423.0	1404.7	1388.3	1373.7	1348.1	1329.8	1295.1	1256.8	1220.2	1187.4
7.5°	1737.2	1731.7	1698.8	1693.4	1669.6	1627.6	1591.1	1539.9	1474.1	1423.0	1362.7
10°	2018.5	2005.7	1998.4	1967.4	1932.6	1887.0	1830.4	1768.2	1691.5	1611.2	1525.3
12.5°	2241.4	2234.1	2201.2	2188.4	2151.9	2106.2	2034.9	1954.6	1877.8	1773.7	1673.3
15°	2407.6	2394.8	2372.9	2352.8	2308.9	2268.8	2203.0	2115.3	2022.2	1908.9	1788.3
17.5°	2546.4	2522.7	2517.2	2486.1	2440.5	2393.0	2319.9	2239.5	2129.9	2016.7	1885.2
20°	2732.7	2699.9	2688.9	2643.2	2590.3	2524.5	2440.5	2340.0	2224.9	2100.7	1965.5
22.5°	2951.9	2928.2	2904.5	2864.3	2796.7	2703.5	2581.1	2471.5	2325.4	2188.4	2042.3
25°	3262.5	3242.4	3204.0	3149.2	3065.2	2953.8	2805.8	2645.1	2473.4	2298.0	2126.3
27.5°	3563.9	3545.6	3518.2	3476.2	3381.2	3258.8	3076.2	2871.6	2654.2	2442.3	2252.3
30°	3847.0	3830.6	3803.2	3761.2	3677.1	3556.6	3350.2	3131.0	2860.6	2614.0	2385.7
32.5°	4152.1	4146.6	4115.6	4055.3	3982.2	3819.6	3594.9	3359.3	3085.3	2800.3	2533.6
35°	4497.3	4455.3	4426.1	4365.8	4241.6	4068.1	3805.0	3547.5	3258.8	2966.6	2668.8
37.5°	4789.6	4749.4	4712.9	4636.2	4484.6	4263.5	3965.8	3682.6	3384.9	3087.1	2783.9
40°	5003.3	4983.2	4939.4	4838.9	4669.0	4406.0	4084.5	3775.8	3476.2	3176.6	2877.1
42.5°	5162.3	5131.2	5081.9	4977.8	4776.8	4477.2	4132.0	3814.2	3518.2	3231.4	2937.3
45°	5220.7	5195.1	5149.5	5036.2	4818.8	4497.3	4130.2	3803.2	3520.1	3247.9	2977.5
47.5°	5186.0	5160.4	5120.2	5014.3	4800.6	4473.6	4097.3	3772.1	3501.8	3253.4	3014.1
50°	5070.9	5056.3	5025.3	4935.7	4743.9	4427.9	4068.1	3755.7	3498.1	3280.8	3065.2
52.5°	5060.0	5050.8	5012.5	4923.0	4727.5	4413.3	4064.4	3764.8	3529.2	3315.5	3101.7
55°	6183.4	6053.7	5763.2	5516.6	5111.1	4628.9	4248.9	3912.8	3660.7	3452.5	3302.7
57.5°	8788.3	8594.6	8212.8	7743.4	6811.8	5896.6	5164.1	4634.3	4373.1	4278.1	4334.8
60°	10008.5	9973.8	9913.5	9690.6	9213.9	8426.6	7549.8	6601.7	6221.7	6188.9	6303.9
62.5°	10587.6	10565.6	10583.9	10556.5	10408.5	10178.4	9926.3	9517.1	9140.8	8897.9	8382.7
65°	10854.3	10868.9	10973.0	11055.2	11073.5	11133.7	11318.2	11827.9	12200.5	11574.0	10143.7
67.5°	10176.5	10262.4	10501.7	10801.3	11152.0	11491.8	12039.8	13113.9	13879.3	13143.1	11111.8
69°	8424.7	8466.8	9051.3	9615.8	10472.5	11071.6	11866.2	13274.6	14135.0	13303.9	11035.1
70°	6632.8	6671.1	7297.7	8064.9	9513.5	10284.3	11323.7	13002.5	13895.7	13090.1	10640.5
72.5°	2992.1	2937.3	3158.4	3569.4	5144.0	6367.9	8185.4	10534.6	11464.4	10487.1	7960.8
75°	2089.7	2066.0	2089.7	2091.6	2336.4	3014.1	3803.2	5710.3	7062.0	6093.9	3803.2
77.5°	1618.5	1602.0	1585.6	1567.3	1596.5	1788.3	1865.1	2025.8	2630.4	2488.0	1450.4
80°	1280.5	1265.9	1306.1	1293.3	1293.3	1315.2	1300.6	1240.3	1127.1	1044.9	935.3
82.5°	595.5	599.2	599.2	650.3	783.7	915.2	957.2	896.9	796.4	677.7	546.2
85°	56.6	63.9	107.8	166.2	330.6	372.6	374.5	310.5	310.5	244.8	197.3
87.5°	0.0	1.8	1.8	1.8	16.4	45.7	38.4	11.0	5.5	5.5	9.1
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°	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1
2.5°	971.8	966.3	944.4	922.5	902.4	880.5	860.4	840.3	818.4	801.9	781.8
5°	1136.2	1096.0	1050.4	1006.5	962.7	917.0	869.5	827.5	783.7	743.5	705.1
7.5°	1302.4	1223.9	1161.8	1083.2	1012.0	940.8	875.0	807.4	745.3	686.8	632.0
10°	1443.1	1348.1	1251.3	1150.8	1048.5	953.5	862.2	781.8	699.6	628.4	560.8
12.5°	1558.2	1437.6	1318.9	1192.8	1077.8	957.2	843.9	747.1	650.3	569.9	500.5
15°	1662.3	1523.5	1381.0	1234.8	1088.7	951.7	825.7	705.1	606.5	515.1	436.6
17.5°	1746.3	1587.4	1426.7	1262.3	1105.2	944.4	801.9	675.9	560.8	465.8	389.1
20°	1819.4	1653.2	1479.6	1295.1	1116.1	942.6	781.8	639.3	520.6	420.1	345.2
22.5°	1887.0	1720.8	1534.4	1337.1	1132.6	940.8	763.6	611.9	485.9	385.4	310.5
25°	1963.7	1788.3	1592.9	1381.0	1161.8	948.1	752.6	590.0	454.8	352.6	283.1
27.5°	2049.6	1865.1	1662.3	1435.8	1200.1	962.7	748.9	566.3	427.4	321.5	261.2
30°	2170.1	1956.4	1731.7	1490.6	1234.8	979.1	745.3	551.7	400.0	297.8	239.3
32.5°	2276.1	2045.9	1808.4	1547.2	1273.2	995.6	743.5	531.6	374.5	274.0	222.9
35°	2387.5	2128.1	1874.2	1602.0	1306.1	1013.8	741.6	517.0	350.7	250.3	206.4
37.5°	2484.3	2197.5	1925.3	1649.5	1342.6	1030.3	743.5	504.2	328.8	230.2	191.8
40°	2566.5	2268.8	1982.0	1693.4	1381.0	1055.8	745.3	491.4	306.9	211.9	179.0
42.5°	2639.6	2336.4	2042.3	1742.7	1424.8	1085.1	756.3	480.4	288.6	195.5	166.2
45°	2696.2	2398.5	2108.0	1812.1	1496.1	1132.6	776.3	473.1	270.4	180.8	155.3
47.5°	2754.7	2489.8	2219.4	1921.7	1600.2	1207.4	811.1	471.3	255.7	169.9	146.1
50°	2835.0	2581.1	2318.1	2033.1	1695.2	1284.2	853.1	473.1	237.5	158.9	137.0
52.5°	2893.5	2674.3	2446.0	2226.7	1921.7	1518.0	1015.6	506.0	228.3	149.8	126.0
55°	3238.7	3200.4	3205.9	3242.4	3006.7	2583.0	1698.8	730.7	268.5	169.9	124.2
57.5°	4566.8	4701.9	4780.5	4778.6	4389.6	3640.6	2281.5	938.9	299.6	197.3	148.0
60°	6313.1	6210.8	6066.5	5710.3	5193.3	4155.7	2551.9	1010.2	259.4	157.1	135.2
62.5°	7856.6	7257.5	6725.9	6148.7	5471.0	4334.8	2606.7	1004.7	226.5	118.7	95.0
65°	8819.3	7741.6	6883.0	6159.6	5361.4	4185.0	2466.0	922.5	191.8	96.8	78.5
67.5°	9049.5	7480.3	6265.6	5343.1	4479.1	3257.0	1810.3	694.1	149.8	80.4	69.4
69°	8547.1	6649.2	5191.5	4144.8	3258.8	2161.0	1119.8	438.4	115.1	73.1	63.9
70°	7862.1	5783.3	4228.8	3326.4	2413.1	1518.0	783.7	308.7	93.2	67.6	58.5
72.5°	5058.1	3037.8	2078.8	1446.7	995.6	604.6	306.9	138.8	71.2	56.6	47.5
75°	1961.9	1123.4	814.7	619.3	484.1	336.1	186.3	89.5	60.3	47.5	36.5
77.5°	966.3	739.8	604.6	414.7	241.1	149.8	100.5	69.4	49.3	34.7	23.7
80°	763.6	507.8	303.2	188.2	142.5	107.8	76.7	56.6	36.5	21.9	16.4
82.5°	390.9	213.7	157.1	127.9	105.9	84.0	62.1	40.2	23.7	14.6	12.8
85°	122.4	89.5	80.4	78.5	73.1	60.3	43.8	25.6	14.6	9.1	9.1
87.5°	9.1	12.8	16.4	12.8	14.6	12.8	16.4	11.0	7.3	7.3	5.5
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°	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1	842.1
2.5°	767.2	745.3	725.2	712.4	688.7	679.5	670.4	666.7	650.3	654.0	639.3
5°	670.4	632.0	602.8	573.6	546.2	526.1	509.6	489.6	473.1	465.8	451.2
7.5°	582.7	533.4	495.0	464.0	431.1	405.5	383.6	369.0	354.4	339.8	332.5
10°	506.0	453.0	409.2	378.1	347.1	325.2	308.7	297.8	288.6	283.1	281.3
12.5°	434.8	383.6	343.4	316.0	292.3	281.3	274.0	268.5	266.7	264.9	264.9
15°	380.0	328.8	297.8	277.7	266.7	261.2	259.4	255.7	252.1	250.3	250.3
17.5°	328.8	290.4	268.5	257.6	252.1	248.4	244.8	241.1	237.5	235.6	235.6
20°	294.1	263.0	252.1	244.8	239.3	235.6	230.2	226.5	224.7	222.9	221.0
22.5°	266.7	246.6	239.3	233.8	226.5	221.0	217.4	213.7	210.1	208.2	206.4
25°	246.6	233.8	228.3	221.0	213.7	208.2	202.8	197.3	193.6	191.8	188.2
27.5°	232.0	222.9	215.6	206.4	199.1	193.6	188.2	182.7	179.0	175.4	173.5
30°	219.2	210.1	200.9	193.6	184.5	179.0	171.7	166.2	164.4	160.7	157.1
32.5°	206.4	197.3	188.2	179.0	169.9	162.6	158.9	151.6	148.0	146.1	142.5
35°	191.8	182.7	171.7	164.4	155.3	148.0	142.5	137.0	133.3	129.7	127.9
37.5°	179.0	168.1	157.1	148.0	140.7	133.3	127.9	122.4	118.7	115.1	113.3
40°	164.4	153.4	142.5	133.3	126.0	120.6	115.1	109.6	105.9	104.1	104.1
42.5°	151.6	138.8	127.9	120.6	115.1	107.8	102.3	96.8	95.0	93.2	95.0
45°	138.8	126.0	116.9	109.6	104.1	96.8	91.3	87.7	85.9	87.7	89.5
47.5°	127.9	115.1	105.9	100.5	95.0	89.5	84.0	80.4	80.4	84.0	87.7
50°	116.9	104.1	96.8	93.2	87.7	82.2	74.9	73.1	74.9	78.5	82.2
52.5°	105.9	91.3	85.9	84.0	78.5	73.1	67.6	65.8	67.6	71.2	69.4
55°	95.0	80.4	78.5	76.7	71.2	63.9	58.5	58.5	58.5	56.6	53.0
57.5°	91.3	71.2	69.4	67.6	62.1	54.8	51.1	47.5	45.7	40.2	38.4
60°	95.0	63.9	63.9	60.3	54.8	47.5	42.0	36.5	32.9	29.2	29.2
62.5°	76.7	58.5	56.6	53.0	45.7	38.4	32.9	27.4	25.6	23.7	23.7
65°	62.1	53.0	49.3	43.8	38.4	31.1	25.6	21.9	20.1	20.1	21.9
67.5°	56.6	47.5	42.0	36.5	31.1	23.7	20.1	18.3	18.3	20.1	20.1
69°	53.0	43.8	38.4	32.9	27.4	21.9	18.3	18.3	18.3	18.3	20.1
70°	49.3	42.0	36.5	31.1	23.7	18.3	16.4	16.4	18.3	18.3	20.1
72.5°	38.4	32.9	31.1	25.6	18.3	16.4	14.6	16.4	16.4	18.3	18.3
75°	29.2	23.7	23.7	20.1	14.6	12.8	12.8	14.6	14.6	16.4	16.4
77.5°	20.1	16.4	16.4	14.6	12.8	11.0	11.0	12.8	14.6	14.6	16.4
80°	14.6	12.8	11.0	12.8	11.0	9.1	11.0	12.8	12.8	14.6	14.6
82.5°	11.0	11.0	11.0	11.0	9.1	9.1	11.0	11.0	12.8	14.6	14.6
85°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	11.0	11.0	12.8	12.8
87.5°	5.5	5.5	5.5	7.3	7.3	9.1	9.1	9.1	9.1	11.0	11.0
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: P151829

CATALOG NUMBER: TLM-E06-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	842.1	842.1	842.1	842.1
2.5°	635.7	633.9	626.6	628.4
5°	445.7	434.8	442.1	440.2
7.5°	327.0	325.2	323.3	327.0
10°	279.5	279.5	277.7	279.5
12.5°	263.0	263.0	263.0	263.0
15°	250.3	250.3	248.4	248.4
17.5°	235.6	235.6	235.6	233.8
20°	221.0	219.2	219.2	219.2
22.5°	204.6	202.8	202.8	202.8
25°	188.2	186.3	186.3	186.3
27.5°	171.7	169.9	168.1	168.1
30°	155.3	153.4	151.6	151.6
32.5°	138.8	137.0	135.2	135.2
35°	124.2	124.2	122.4	120.6
37.5°	111.4	111.4	111.4	111.4
40°	102.3	104.1	104.1	104.1
42.5°	96.8	98.6	100.5	102.3
45°	93.2	96.8	98.6	98.6
47.5°	91.3	93.2	95.0	95.0
50°	84.0	82.2	82.2	82.2
52.5°	67.6	63.9	62.1	60.3
55°	49.3	47.5	43.8	43.8
57.5°	34.7	34.7	32.9	32.9
60°	27.4	27.4	25.6	27.4
62.5°	23.7	23.7	23.7	23.7
65°	21.9	21.9	21.9	21.9
67.5°	21.9	21.9	21.9	21.9
69°	20.1	20.1	20.1	20.1
70°	20.1	20.1	20.1	20.1
72.5°	18.3	18.3	18.3	18.3
75°	16.4	18.3	18.3	18.3
77.5°	16.4	16.4	16.4	16.4
80°	14.6	14.6	16.4	16.4
82.5°	14.6	14.6	14.6	14.6
85°	12.8	12.8	14.6	14.6
87.5°	11.0	11.0	12.8	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)