

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: P150689

Luminaire Tested: **TLM-E06-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150689
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-7030
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, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9501.5 lumens
Efficiency: N/A
Efficacy: 63.1 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

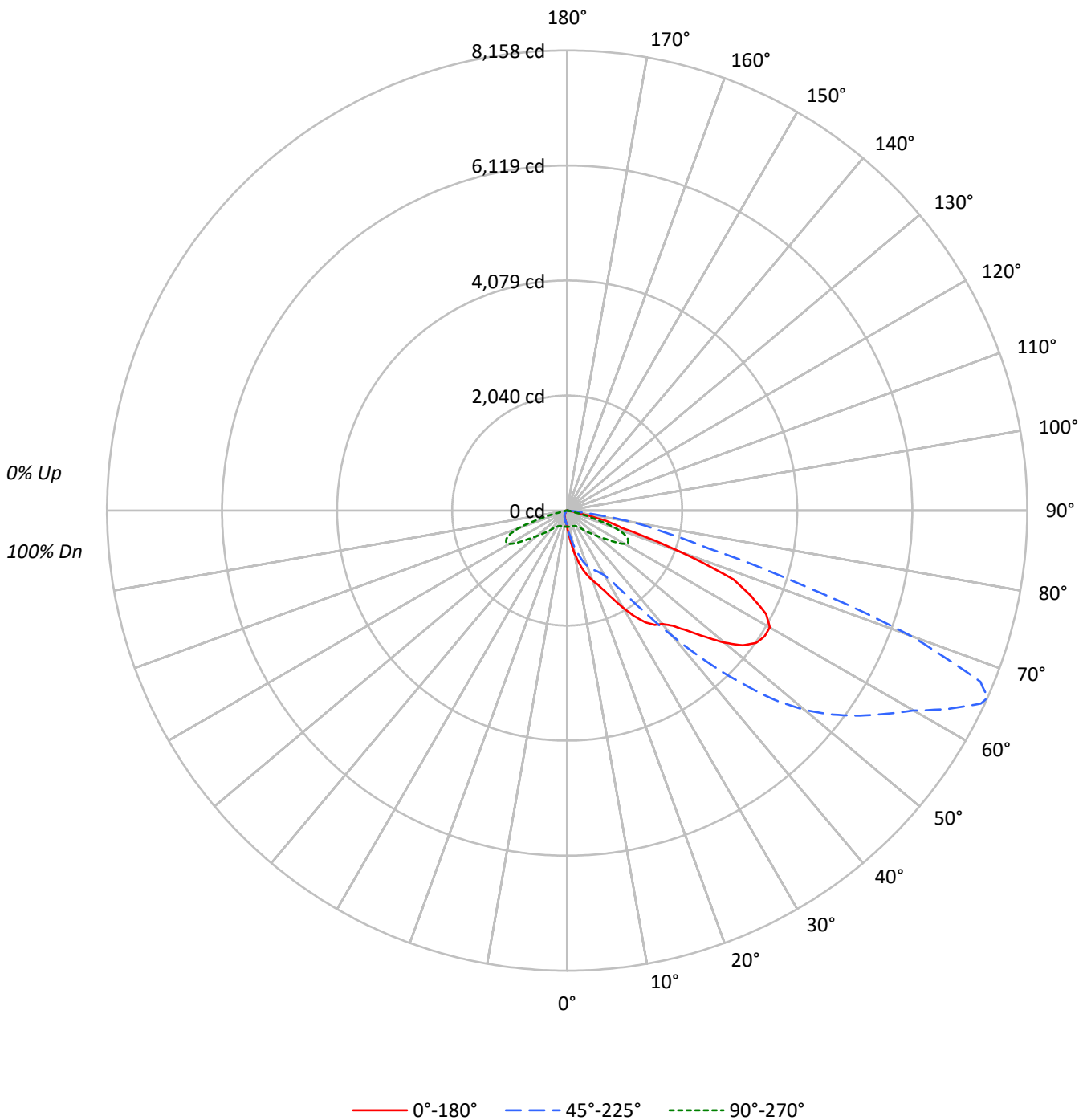
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3087	3087	3087
5°	5171	3109	2270
10°	8485	3135	1896
15°	12112	3267	1608
20°	15065	3379	1381
25°	18636	3580	1171
30°	24770	4007	999
35°	31781	4740	840
40°	36858	6237	667
45°	45769	8426	501
50°	60964	11746	489
55°	76788	17175	548
60°	89306	25482	590
65°	91795	30266	652
70°	67091	29061	746
75°	30235	12649	986
80°	5436	3171	1469
85°	457	2816	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	0.3
10°-20°	136.1	1.4
20°-30°	293.6	3.1
30°-40°	627.0	6.6
40°-50°	1386.6	14.6
50°-60°	2349.9	24.7
60°-70°	3135.7	33.0
70°-80°	1381.3	14.5
80°-90°	159.1	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°	461.8	4.9
0°-40°	1088.9	11.5
0°-60°	4825.4	50.8
0°-90°	9501.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9501.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	287	287	287	287	287	
5°	479	406	288	217	210	55
15°	1087	829	293	155	144	311
25°	1569	1171	301	113	99	751
35°	2419	1812	361	77	64	1500
45°	3007	4265	554	46	33	2377
55°	4092	6339	915	22	29	3606
65°	3604	8092	1188	16	26	3441
75°	727	2590	304	13	24	802
85°	4	55	23	11	22	22
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°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8
2.5°	361.7	359.9	352.6	352.6	341.6	334.3	325.2	316.0	316.0	314.2	312.4
5°	478.6	467.6	465.8	445.7	429.3	405.5	383.6	354.4	350.7	347.1	345.2
7.5°	608.3	606.5	590.0	566.3	533.4	489.6	445.7	398.2	390.9	387.3	380.0
10°	776.3	767.2	745.3	705.1	655.8	597.3	526.1	451.2	442.1	434.8	431.1
12.5°	937.1	920.7	907.9	856.7	794.6	708.8	622.9	515.1	507.8	498.7	484.1
15°	1086.9	1072.3	1050.4	1006.5	937.1	829.3	728.9	597.3	579.1	566.3	555.3
17.5°	1203.8	1194.7	1169.1	1119.8	1044.9	949.9	829.3	681.4	666.7	650.3	630.2
20°	1315.2	1302.4	1262.3	1194.7	1114.3	1041.2	948.1	791.0	770.9	750.8	728.9
22.5°	1421.2	1408.4	1342.6	1231.2	1145.3	1114.3	1081.4	915.2	884.1	867.7	845.8
25°	1569.1	1541.7	1439.4	1262.3	1147.2	1170.9	1227.5	1075.9	1046.7	1023.0	988.2
27.5°	1768.2	1731.7	1571.0	1307.9	1154.5	1233.0	1395.6	1271.4	1240.3	1212.9	1174.6
30°	1992.9	1969.2	1777.4	1417.5	1207.4	1324.4	1583.7	1519.8	1483.3	1450.4	1404.7
32.5°	2219.4	2186.6	1996.6	1625.8	1349.9	1501.5	1819.4	1808.4	1760.9	1729.9	1680.6
35°	2418.6	2402.1	2261.5	1967.4	1675.1	1812.1	2133.6	2146.4	2104.4	2071.5	2016.7
37.5°	2553.7	2553.7	2526.3	2334.5	2192.0	2294.3	2595.7	2597.6	2555.6	2480.7	2453.3
40°	2623.1	2643.2	2741.9	2778.4	2771.1	2902.6	3202.2	3169.3	3134.6	3096.3	3004.9
42.5°	2765.6	2783.9	2994.0	3246.0	3410.5	3584.0	3790.4	3779.4	3737.4	3668.0	3584.0
45°	3006.7	3030.5	3280.8	3680.8	4018.7	4265.3	4396.9	4345.7	4303.7	4237.9	4194.1
47.5°	3313.6	3359.3	3642.4	4137.5	4544.8	4952.2	5089.2	4954.0	4917.5	4866.3	4795.1
50°	3640.6	3684.5	3985.9	4552.1	5012.5	5498.4	5726.7	5498.4	5445.4	5429.0	5348.6
52.5°	3923.8	3960.3	4250.7	4871.8	5370.5	5940.4	6272.9	5971.5	5933.1	5878.3	5819.9
55°	4091.8	4121.0	4393.2	5025.3	5613.5	6338.7	6800.8	6535.9	6479.3	6457.4	6373.4
57.5°	4148.4	4177.7	4422.4	5045.3	5745.0	6702.2	7442.0	7451.1	7383.5	7305.0	7279.4
60°	4148.4	4181.3	4387.7	4996.0	5872.8	7089.4	8296.9	9058.6	8912.5	8897.9	8804.7
62.5°	3976.7	4007.8	4216.0	4844.4	6044.6	7611.9	9487.9	10832.3	10790.3	10695.3	10541.9
65°	3604.1	3622.3	3826.9	4457.1	5978.8	8092.3	10520.0	12012.4	11944.8	11758.5	11561.2
66°	3436.0	3450.6	3642.4	4236.1	5763.2	8158.0	10702.6	12160.3	12048.9	11891.8	11669.0
67.5°	3193.1	3218.6	3353.8	3825.1	5246.3	7929.7	10587.6	12056.2	11959.4	11769.4	11546.6
70°	2131.8	2113.5	2590.3	2935.5	3996.8	6461.0	9498.8	10825.0	10826.9	10737.3	10647.8
72.5°	1012.0	1023.0	1161.8	1806.6	2615.8	4316.5	7560.7	8640.3	8764.5	8603.8	8492.3
75°	727.0	743.5	827.5	1105.2	1560.0	2590.3	4901.0	6042.7	6046.4	5761.4	5507.5
77.5°	211.9	221.0	310.5	681.4	1169.1	1748.2	2814.9	3359.3	3280.8	3076.2	2884.4
80°	87.7	87.7	91.3	217.4	469.5	1187.4	1969.2	2586.6	2577.5	2498.9	2385.7
82.5°	32.9	34.7	43.8	89.5	111.4	292.3	1313.4	2245.0	2239.5	2128.1	2047.7
85°	3.7	3.7	11.0	38.4	42.0	54.8	263.0	990.1	984.6	990.1	867.7
87.5°	0.0	0.0	1.8	3.7	5.5	7.3	11.0	38.4	42.0	40.2	36.5
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8
2.5°	312.4	308.7	308.7	306.9	306.9	306.9	305.1	303.2	303.2	301.4	299.6
5°	341.6	337.9	336.1	332.5	330.6	328.8	325.2	323.3	319.7	317.8	316.0
7.5°	376.3	369.0	367.2	361.7	356.2	352.6	348.9	343.4	339.8	332.5	330.6
10°	420.1	411.0	403.7	396.4	390.9	381.8	376.3	369.0	361.7	356.2	350.7
12.5°	476.8	464.0	453.0	445.7	432.9	422.0	411.0	405.5	390.9	383.6	374.5
15°	538.9	524.3	511.5	496.9	487.7	469.5	454.8	438.4	431.1	418.3	403.7
17.5°	619.3	595.5	575.4	560.8	542.5	524.3	507.8	491.4	469.5	454.8	436.6
20°	705.1	685.0	657.6	632.0	610.1	588.2	564.5	542.5	522.4	498.7	476.8
22.5°	814.7	785.5	752.6	727.0	697.8	674.1	641.2	611.9	579.1	548.0	522.4
25°	953.5	915.2	884.1	847.6	812.9	776.3	736.2	699.6	657.6	628.4	584.5
27.5°	1125.2	1088.7	1046.7	999.2	964.5	909.7	856.7	811.1	761.7	716.1	666.7
30°	1344.5	1291.5	1247.6	1202.0	1132.6	1079.6	1017.5	955.4	887.8	842.1	767.2
32.5°	1607.5	1550.9	1485.1	1419.3	1355.4	1280.5	1203.8	1127.1	1052.2	968.2	891.4
35°	1929.0	1861.4	1786.5	1715.3	1616.6	1536.3	1439.4	1333.5	1249.5	1152.6	1055.8
37.5°	2354.6	2243.2	2177.4	2102.5	1969.2	1859.6	1751.8	1645.9	1497.9	1395.6	1258.6
40°	2888.0	2822.3	2714.5	2593.9	2473.4	2329.0	2182.9	2042.3	1870.5	1728.1	1569.1
42.5°	3514.6	3417.8	3308.2	3134.6	3012.2	2842.3	2676.1	2489.8	2279.7	2097.1	1910.7
45°	4102.8	3987.7	3903.7	3730.1	3602.3	3401.3	3200.4	3003.1	2760.1	2524.5	2308.9
47.5°	4738.5	4643.5	4504.6	4364.0	4234.3	4007.8	3790.4	3551.1	3295.4	3015.9	2736.4
50°	5297.4	5222.5	5127.5	4957.7	4813.4	4623.4	4367.6	4106.4	3783.1	3505.4	3187.6
52.5°	5772.4	5713.9	5580.6	5460.0	5330.3	5151.3	4923.0	4672.7	4323.8	4018.7	3657.1
55°	6333.2	6291.2	6174.2	6099.4	5984.3	5812.6	5598.8	5366.8	4997.9	4665.4	4256.2
57.5°	7252.0	7219.1	7116.8	7085.8	6972.5	6822.7	6559.7	6311.3	5880.1	5467.3	4999.7
60°	8773.6	8707.9	8558.1	8481.4	8242.1	8041.1	7699.5	7358.0	6837.3	6311.3	5748.6
62.5°	10403.1	10218.6	9933.6	9688.8	9349.1	9000.2	8543.5	8021.0	7410.9	6786.2	6139.5
65°	11281.7	10967.5	10607.7	10218.6	9778.3	9265.0	8689.6	8063.1	7407.3	6747.8	6064.6
66°	11382.2	11027.8	10646.0	10213.1	9723.5	9177.3	8592.8	7935.2	7253.8	6610.8	5927.6
67.5°	11256.1	10885.3	10481.6	10001.2	9471.4	8905.2	8291.4	7608.2	6952.4	6300.3	5635.4
70°	10373.8	10004.8	9645.0	9139.0	8574.5	8004.6	7423.7	6660.2	6039.1	5439.9	4848.1
72.5°	8284.1	8033.8	7677.6	7244.7	6694.9	6026.3	5542.2	4859.0	4320.1	3739.3	3280.8
75°	5176.9	4824.3	4384.1	3832.4	3412.3	2869.7	2586.6	2067.8	1760.9	1492.4	1233.0
77.5°	2646.9	2382.0	2073.3	1762.8	1465.0	1169.1	904.2	639.3	431.1	299.6	222.9
80°	2186.6	1952.7	1697.0	1413.9	1150.8	893.3	643.0	438.4	279.5	182.7	142.5
82.5°	1806.6	1609.3	1381.0	1117.9	889.6	701.5	487.7	317.8	197.3	127.9	100.5
85°	769.0	697.8	538.9	427.4	321.5	237.5	166.2	111.4	78.5	63.9	58.5
87.5°	32.9	36.5	34.7	27.4	20.1	20.1	18.3	14.6	14.6	14.6	14.6
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°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8
2.5°	299.6	297.8	295.9	295.9	294.1	292.3	281.3	272.2	261.2	253.9	246.6
5°	312.4	310.5	306.9	305.1	301.4	299.6	275.8	255.7	239.3	226.5	217.4
7.5°	325.2	323.3	317.8	312.4	310.5	306.9	268.5	243.0	221.0	206.4	197.3
10°	341.6	336.1	330.6	323.3	317.8	312.4	261.2	228.3	204.6	191.8	182.7
12.5°	365.3	356.2	347.1	337.9	330.6	321.5	257.6	215.6	191.8	177.2	168.1
15°	392.7	380.0	369.0	358.0	345.2	336.1	250.3	204.6	180.8	166.2	155.3
17.5°	418.3	403.7	387.3	370.8	358.0	345.2	243.0	193.6	169.9	155.3	144.3
20°	454.8	432.9	412.8	392.7	374.5	358.0	232.0	182.7	160.7	144.3	133.3
22.5°	495.0	469.5	443.9	416.5	392.7	370.8	222.9	173.5	151.6	135.2	122.4
25°	546.2	515.1	480.4	445.7	418.3	389.1	213.7	164.4	142.5	126.0	113.3
27.5°	617.4	573.6	535.2	491.4	449.4	416.5	206.4	157.1	133.3	116.9	104.1
30°	714.2	650.3	590.0	542.5	493.2	445.7	199.1	148.0	126.0	107.8	93.2
32.5°	822.0	747.1	677.7	606.5	544.4	489.6	191.8	140.7	116.9	98.6	85.9
35°	955.4	860.4	767.2	685.0	610.1	537.0	184.5	133.3	109.6	89.5	76.7
37.5°	1147.2	1028.4	906.0	800.1	703.3	606.5	179.0	126.0	100.5	80.4	67.6
40°	1410.2	1256.8	1107.0	962.7	836.6	716.1	171.7	118.7	93.2	73.1	60.3
42.5°	1695.2	1508.9	1311.6	1149.0	975.5	823.8	164.4	111.4	85.9	65.8	53.0
45°	2049.6	1817.6	1578.3	1357.2	1145.3	949.9	157.1	104.1	76.7	58.5	45.7
47.5°	2436.8	2140.9	1870.5	1592.9	1340.8	1107.0	148.0	98.6	69.4	51.1	40.2
50°	2835.0	2522.7	2181.1	1865.1	1565.5	1264.1	138.8	89.5	62.1	45.7	32.9
52.5°	3264.3	2895.3	2546.4	2153.7	1804.8	1470.5	129.7	82.2	56.6	40.2	27.4
55°	3810.5	3397.7	2988.5	2548.2	2128.1	1709.8	120.6	73.1	49.3	34.7	21.9
57.5°	4497.3	4007.8	3505.4	3008.6	2498.9	2024.0	113.3	63.9	42.0	29.2	18.3
60°	5145.8	4574.1	3965.8	3394.0	2818.6	2265.1	102.3	56.6	36.5	23.7	18.3
62.5°	5481.9	4829.8	4174.0	3543.8	2930.0	2351.0	91.3	47.5	31.1	20.1	16.4
65°	5399.7	4734.8	4099.1	3463.4	2862.4	2296.2	80.4	42.0	27.4	18.3	16.4
66°	5281.0	4623.4	3984.0	3379.4	2805.8	2237.7	74.9	40.2	25.6	18.3	14.6
67.5°	5021.6	4385.9	3775.8	3213.2	2650.5	2126.3	67.6	36.5	23.7	16.4	14.6
70°	4289.1	3711.9	3224.1	2723.6	2265.1	1792.0	54.8	31.1	20.1	14.6	14.6
72.5°	2838.7	2446.0	2120.8	1824.9	1525.3	1183.7	45.7	25.6	16.4	14.6	12.8
75°	1070.4	968.2	831.1	747.1	652.1	571.8	36.5	16.4	12.8	12.8	12.8
77.5°	190.0	175.4	155.3	142.5	131.5	120.6	29.2	11.0	11.0	12.8	12.8
80°	127.9	118.7	107.8	98.6	91.3	82.2	20.1	9.1	11.0	11.0	12.8
82.5°	91.3	85.9	80.4	73.1	67.6	60.3	12.8	9.1	11.0	11.0	11.0
85°	54.8	51.1	47.5	43.8	38.4	36.5	9.1	9.1	9.1	11.0	11.0
87.5°	14.6	12.8	14.6	14.6	11.0	12.8	7.3	7.3	7.3	9.1	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



TEST NUMBER: P150689

CATALOG NUMBER: TLM-E06-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	286.8	286.8	286.8	286.8	286.8
2.5°	243.0	243.0	239.3	244.8	244.8
5°	210.1	210.1	208.2	210.1	210.1
7.5°	191.8	190.0	190.0	190.0	191.8
10°	175.4	173.5	173.5	173.5	173.5
12.5°	160.7	158.9	157.1	158.9	158.9
15°	148.0	144.3	144.3	144.3	144.3
17.5°	137.0	133.3	131.5	131.5	131.5
20°	126.0	120.6	120.6	120.6	120.6
22.5°	115.1	109.6	109.6	109.6	109.6
25°	104.1	98.6	98.6	98.6	98.6
27.5°	95.0	89.5	89.5	89.5	89.5
30°	84.0	80.4	80.4	82.2	80.4
32.5°	76.7	71.2	71.2	73.1	73.1
35°	67.6	63.9	63.9	63.9	63.9
37.5°	58.5	54.8	54.8	54.8	54.8
40°	51.1	47.5	45.7	47.5	47.5
42.5°	43.8	40.2	38.4	38.4	38.4
45°	38.4	32.9	31.1	32.9	32.9
47.5°	31.1	27.4	27.4	29.2	29.2
50°	23.7	23.7	25.6	29.2	29.2
52.5°	21.9	21.9	25.6	29.2	29.2
55°	20.1	21.9	25.6	27.4	29.2
57.5°	18.3	21.9	25.6	27.4	27.4
60°	18.3	20.1	23.7	27.4	27.4
62.5°	16.4	18.3	21.9	25.6	25.6
65°	16.4	18.3	21.9	25.6	25.6
66°	16.4	18.3	21.9	25.6	25.6
67.5°	16.4	18.3	21.9	25.6	25.6
70°	16.4	18.3	21.9	23.7	23.7
72.5°	14.6	16.4	20.1	23.7	23.7
75°	14.6	16.4	20.1	23.7	23.7
77.5°	14.6	16.4	20.1	23.7	23.7
80°	14.6	16.4	20.1	21.9	23.7
82.5°	12.8	16.4	18.3	21.9	21.9
85°	12.8	14.6	18.3	20.1	21.9
87.5°	11.0	12.8	14.6	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)