

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: P150658

Luminaire Tested: **TLM-E03-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150658
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-E03-LED-E1-SL3-HSS-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

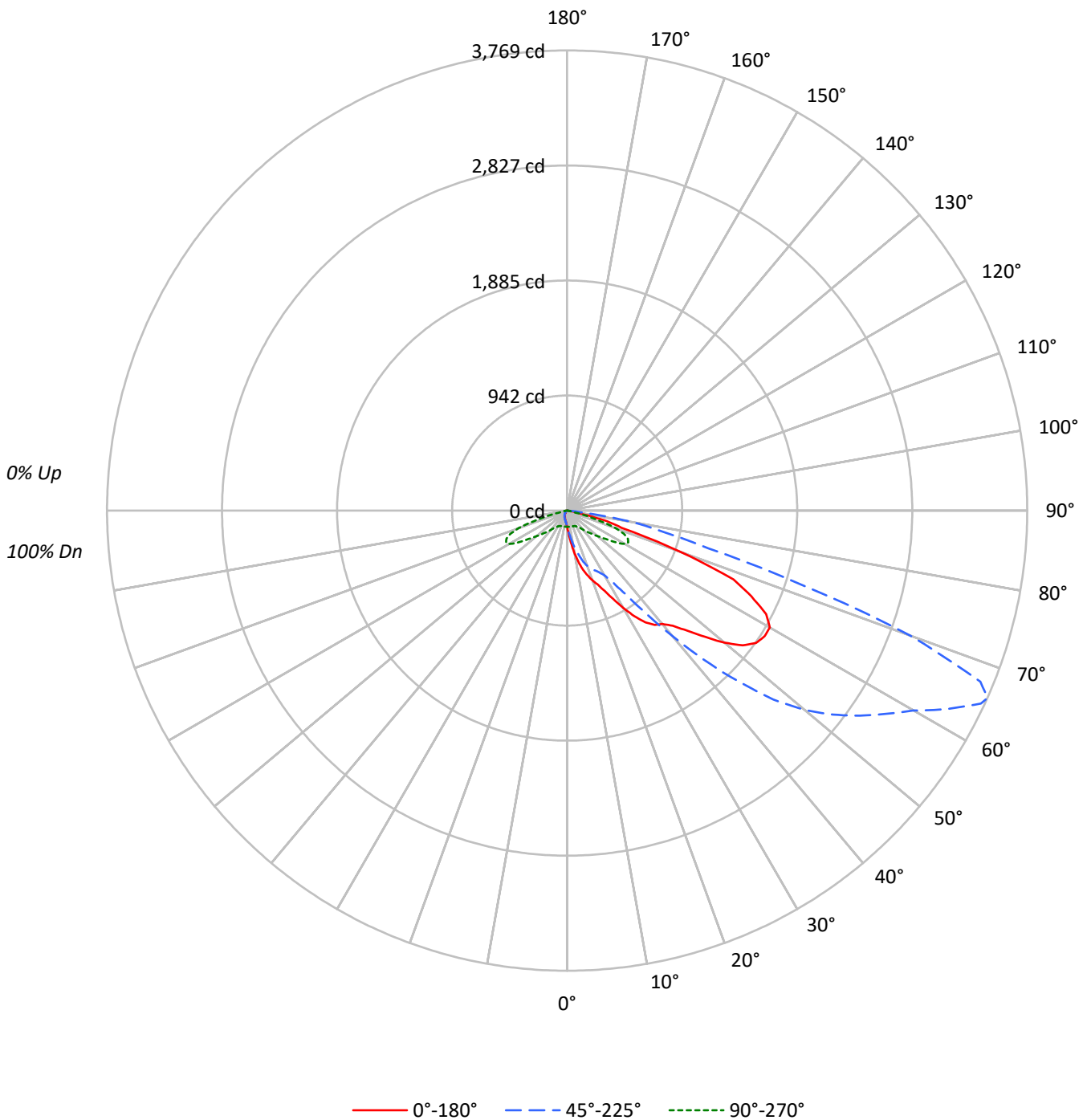
Lumens per Lamp: N/A
Luminaire Lumens: 4390.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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										
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°	2852	2852	2852
5°	4778	2872	2098
10°	7841	2896	1753
15°	11193	3019	1487
20°	13922	3123	1276
25°	17221	3308	1083
30°	22889	3703	922
35°	29366	4380	775
40°	34060	5762	615
45°	42294	7786	463
50°	56336	10853	452
55°	70955	15871	507
60°	82525	23547	547
65°	84824	27966	601
70°	61993	26855	692
75°	27939	11691	915
80°	5021	2932	1364
85°	420	2606	2495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.3
10°-20°	62.9	1.4
20°-30°	135.7	3.1
30°-40°	289.7	6.6
40°-50°	640.7	14.6
50°-60°	1085.7	24.7
60°-70°	1448.8	33.0
70°-80°	638.2	14.5
80°-90°	73.5	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°	213.4	4.9
0°-40°	503.1	11.5
0°-60°	2229.5	50.8
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	132	132	132	132	132	
5°	221	187	133	100	97	25
15°	502	383	135	72	67	144
25°	725	541	139	52	46	347
35°	1117	837	167	35	30	693
45°	1389	1971	256	21	15	1098
55°	1890	2929	423	10	14	1666
65°	1665	3739	549	8	12	1590
75°	336	1197	141	6	11	371
85°	2	25	11	5	10	10
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°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
2.5°	167.1	166.3	162.9	162.9	157.8	154.5	150.2	146.0	146.0	145.2	144.3
5°	221.1	216.1	215.2	205.9	198.3	187.4	177.2	163.7	162.0	160.4	159.5
7.5°	281.0	280.2	272.6	261.6	246.4	226.2	205.9	184.0	180.6	178.9	175.6
10°	358.7	354.5	344.3	325.8	303.0	276.0	243.1	208.5	204.2	200.9	199.2
12.5°	433.0	425.4	419.5	395.8	367.1	327.5	287.8	238.0	234.6	230.4	223.7
15°	502.2	495.4	485.3	465.0	433.0	383.2	336.8	276.0	267.5	261.6	256.6
17.5°	556.2	552.0	540.2	517.4	482.8	438.9	383.2	314.8	308.1	300.5	291.2
20°	607.7	601.8	583.2	552.0	514.8	481.1	438.0	365.4	356.2	346.9	336.8
22.5°	656.6	650.7	620.3	568.8	529.2	514.8	499.6	422.8	408.5	400.9	390.8
25°	725.0	712.3	665.1	583.2	530.0	541.0	567.2	497.1	483.6	472.6	456.6
27.5°	817.0	800.1	725.8	604.3	533.4	569.7	644.8	587.4	573.1	560.4	542.7
30°	920.8	909.8	821.2	654.9	557.9	611.9	731.7	702.2	685.3	670.1	649.0
32.5°	1025.4	1010.3	922.5	751.2	623.7	693.8	840.6	835.6	813.6	799.3	776.5
35°	1117.4	1109.8	1044.9	909.0	773.9	837.2	985.8	991.7	972.3	957.1	931.8
37.5°	1179.9	1179.9	1167.2	1078.6	1012.8	1060.1	1199.3	1200.2	1180.7	1146.1	1133.5
40°	1212.0	1221.3	1266.8	1283.7	1280.3	1341.1	1479.5	1464.3	1448.3	1430.6	1388.4
42.5°	1277.8	1286.2	1383.3	1499.8	1575.7	1655.9	1751.3	1746.2	1726.8	1694.7	1655.9
45°	1389.2	1400.2	1515.8	1700.6	1856.8	1970.7	2031.5	2007.9	1988.4	1958.1	1937.8
47.5°	1531.0	1552.1	1682.9	1911.6	2099.8	2288.1	2351.4	2288.9	2272.0	2248.4	2215.5
50°	1682.1	1702.3	1841.6	2103.2	2315.9	2540.4	2645.9	2540.4	2515.9	2508.3	2471.2
52.5°	1812.9	1829.8	1964.0	2250.9	2481.3	2744.7	2898.3	2759.0	2741.3	2716.0	2689.0
55°	1890.5	1904.0	2029.8	2321.8	2593.6	2928.6	3142.2	3019.8	2993.6	2983.5	2944.7
57.5°	1916.7	1930.2	2043.3	2331.1	2654.4	3096.6	3438.4	3442.6	3411.4	3375.1	3363.3
60°	1916.7	1931.9	2027.3	2308.3	2713.4	3275.5	3833.4	4185.4	4117.8	4111.1	4068.0
62.5°	1837.4	1851.7	1947.9	2238.3	2792.8	3516.9	4383.7	5004.9	4985.5	4941.6	4870.7
65°	1665.2	1673.6	1768.2	2059.3	2762.4	3738.9	4860.5	5550.1	5518.9	5432.8	5341.6
66°	1587.5	1594.3	1682.9	1957.2	2662.8	3769.3	4944.9	5618.4	5567.0	5494.4	5391.4
67.5°	1475.3	1487.1	1549.6	1767.3	2423.9	3663.8	4891.8	5570.3	5525.6	5437.8	5334.9
70°	984.9	976.5	1196.8	1356.3	1846.7	2985.2	4388.8	5001.5	5002.3	4961.0	4919.6
72.5°	467.6	472.6	536.8	834.7	1208.6	1994.4	3493.3	3992.1	4049.5	3975.2	3923.7
75°	335.9	343.5	382.3	510.6	720.8	1196.8	2264.4	2791.9	2793.6	2661.9	2544.6
77.5°	97.9	102.1	143.5	314.8	540.2	807.7	1300.6	1552.1	1515.8	1421.3	1332.7
80°	40.5	40.5	42.2	100.4	216.9	548.6	909.8	1195.1	1190.9	1154.6	1102.3
82.5°	15.2	16.0	20.3	41.4	51.5	135.0	606.8	1037.3	1034.7	983.2	946.1
85°	1.7	1.7	5.1	17.7	19.4	25.3	121.5	457.4	454.9	457.4	400.9
87.5°	0.0	0.0	0.8	1.7	2.5	3.4	5.1	17.7	19.4	18.6	16.9
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°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
2.5°	144.3	142.6	142.6	141.8	141.8	141.8	140.9	140.1	140.1	139.3	138.4
5°	157.8	156.1	155.3	153.6	152.8	151.9	150.2	149.4	147.7	146.9	146.0
7.5°	173.9	170.5	169.6	167.1	164.6	162.9	161.2	158.7	157.0	153.6	152.8
10°	194.1	189.9	186.5	183.1	180.6	176.4	173.9	170.5	167.1	164.6	162.0
12.5°	220.3	214.4	209.3	205.9	200.0	195.0	189.9	187.4	180.6	177.2	173.0
15°	249.0	242.2	236.3	229.6	225.3	216.9	210.2	202.6	199.2	193.3	186.5
17.5°	286.1	275.1	265.9	259.1	250.7	242.2	234.6	227.0	216.9	210.2	201.7
20°	325.8	316.5	303.8	292.0	281.9	271.8	260.8	250.7	241.4	230.4	220.3
22.5°	376.4	362.9	347.7	335.9	322.4	311.4	296.2	282.7	267.5	253.2	241.4
25°	440.6	422.8	408.5	391.6	375.6	358.7	340.1	323.2	303.8	290.3	270.1
27.5°	519.9	503.0	483.6	461.7	445.6	420.3	395.8	374.7	351.9	330.8	308.1
30°	621.2	596.7	576.4	555.3	523.3	498.8	470.1	441.4	410.2	389.1	354.5
32.5°	742.7	716.5	686.2	655.8	626.2	591.6	556.2	520.7	486.1	447.3	411.9
35°	891.3	860.0	825.4	792.5	746.9	709.8	665.1	616.1	577.3	532.6	487.8
37.5°	1087.9	1036.4	1006.0	971.4	909.8	859.2	809.4	760.4	692.1	644.8	581.5
40°	1334.3	1304.0	1254.2	1198.5	1142.8	1076.1	1008.6	943.6	864.2	798.4	725.0
42.5°	1623.8	1579.1	1528.5	1448.3	1391.7	1313.2	1236.4	1150.4	1053.3	968.9	882.8
45°	1895.6	1842.4	1803.6	1723.4	1664.4	1571.5	1478.7	1387.5	1275.3	1166.4	1066.8
47.5°	2189.3	2145.4	2081.3	2016.3	1956.4	1851.7	1751.3	1640.7	1522.6	1393.4	1264.3
50°	2447.6	2413.0	2369.1	2290.6	2223.9	2136.1	2018.0	1897.3	1747.9	1619.6	1472.8
52.5°	2667.0	2640.0	2578.4	2522.7	2462.8	2380.1	2274.6	2158.9	1997.7	1856.8	1689.7
55°	2926.1	2906.7	2852.7	2818.1	2764.9	2685.6	2586.8	2479.6	2309.2	2155.6	1966.5
57.5°	3350.6	3335.5	3288.2	3273.8	3221.5	3152.3	3030.8	2916.0	2716.8	2526.1	2310.0
60°	4053.7	4023.3	3954.1	3918.6	3808.1	3715.2	3557.4	3399.6	3159.1	2916.0	2656.0
62.5°	4806.5	4721.3	4589.6	4476.5	4319.5	4158.3	3947.3	3706.0	3424.1	3135.4	2836.7
65°	5212.5	5067.3	4901.1	4721.3	4517.9	4280.7	4014.9	3725.4	3422.4	3117.7	2802.0
66°	5258.9	5095.2	4918.8	4718.8	4492.6	4240.2	3970.1	3666.3	3351.5	3054.4	2738.8
67.5°	5200.7	5029.3	4842.8	4620.9	4376.1	4114.5	3830.9	3515.2	3212.2	2910.9	2603.7
70°	4793.0	4622.5	4456.3	4222.5	3961.7	3698.4	3430.0	3077.2	2790.2	2513.4	2240.0
72.5°	3827.5	3711.9	3547.3	3347.3	3093.2	2784.3	2560.7	2245.0	1996.0	1727.6	1515.8
75°	2391.9	2229.0	2025.6	1770.7	1576.6	1325.9	1195.1	955.4	813.6	689.5	569.7
77.5°	1222.9	1100.6	957.9	814.5	676.9	540.2	417.8	295.4	199.2	138.4	103.0
80°	1010.3	902.2	784.1	653.2	531.7	412.7	297.1	202.6	129.1	84.4	65.8
82.5°	834.7	743.6	638.1	516.5	411.0	324.1	225.3	146.9	91.2	59.1	46.4
85°	355.3	322.4	249.0	197.5	148.5	109.7	76.8	51.5	36.3	29.5	27.0
87.5°	15.2	16.9	16.0	12.7	9.3	9.3	8.4	6.8	6.8	6.8	6.8
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°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5
2.5°	138.4	137.6	136.7	136.7	135.9	135.0	130.0	125.8	120.7	117.3	113.9
5°	144.3	143.5	141.8	140.9	139.3	138.4	127.4	118.2	110.6	104.7	100.4
7.5°	150.2	149.4	146.9	144.3	143.5	141.8	124.1	112.3	102.1	95.4	91.2
10°	157.8	155.3	152.8	149.4	146.9	144.3	120.7	105.5	94.5	88.6	84.4
12.5°	168.8	164.6	160.4	156.1	152.8	148.5	119.0	99.6	88.6	81.9	77.6
15°	181.5	175.6	170.5	165.4	159.5	155.3	115.6	94.5	83.6	76.8	71.7
17.5°	193.3	186.5	178.9	171.3	165.4	159.5	112.3	89.5	78.5	71.7	66.7
20°	210.2	200.0	190.7	181.5	173.0	165.4	107.2	84.4	74.3	66.7	61.6
22.5°	228.7	216.9	205.1	192.4	181.5	171.3	103.0	80.2	70.1	62.5	56.5
25°	252.4	238.0	222.0	205.9	193.3	179.8	98.7	76.0	65.8	58.2	52.3
27.5°	285.3	265.0	247.3	227.0	207.6	192.4	95.4	72.6	61.6	54.0	48.1
30°	330.0	300.5	272.6	250.7	227.9	205.9	92.0	68.4	58.2	49.8	43.0
32.5°	379.8	345.2	313.1	280.2	251.5	226.2	88.6	65.0	54.0	45.6	39.7
35°	441.4	397.5	354.5	316.5	281.9	248.1	85.2	61.6	50.6	41.4	35.4
37.5°	530.0	475.2	418.6	369.7	324.9	280.2	82.7	58.2	46.4	37.1	31.2
40°	651.6	580.7	511.5	444.8	386.5	330.8	79.3	54.9	43.0	33.8	27.9
42.5°	783.2	697.1	606.0	530.9	450.7	380.6	76.0	51.5	39.7	30.4	24.5
45°	947.0	839.8	729.2	627.1	529.2	438.9	72.6	48.1	35.4	27.0	21.1
47.5°	1125.9	989.2	864.2	736.0	619.5	511.5	68.4	45.6	32.1	23.6	18.6
50°	1309.9	1165.6	1007.7	861.7	723.3	584.0	64.1	41.4	28.7	21.1	15.2
52.5°	1508.2	1337.7	1176.5	995.1	833.9	679.4	59.9	38.0	26.2	18.6	12.7
55°	1760.6	1569.8	1380.8	1177.4	983.2	790.0	55.7	33.8	22.8	16.0	10.1
57.5°	2077.9	1851.7	1619.6	1390.1	1154.6	935.1	52.3	29.5	19.4	13.5	8.4
60°	2377.5	2113.4	1832.3	1568.1	1302.3	1046.5	47.3	26.2	16.9	11.0	8.4
62.5°	2532.8	2231.5	1928.5	1637.3	1353.8	1086.2	42.2	21.9	14.3	9.3	7.6
65°	2494.8	2187.6	1893.9	1600.2	1322.5	1060.9	37.1	19.4	12.7	8.4	7.6
66°	2440.0	2136.1	1840.7	1561.4	1296.4	1033.9	34.6	18.6	11.8	8.4	6.8
67.5°	2320.1	2026.4	1744.5	1484.6	1224.6	982.4	31.2	16.9	11.0	7.6	6.8
70°	1981.7	1715.0	1489.6	1258.4	1046.5	828.0	25.3	14.3	9.3	6.8	6.8
72.5°	1311.6	1130.1	979.9	843.1	704.7	546.9	21.1	11.8	7.6	6.8	5.9
75°	494.6	447.3	384.0	345.2	301.3	264.2	16.9	7.6	5.9	5.9	5.9
77.5°	87.8	81.0	71.7	65.8	60.8	55.7	13.5	5.1	5.1	5.9	5.9
80°	59.1	54.9	49.8	45.6	42.2	38.0	9.3	4.2	5.1	5.1	5.9
82.5°	42.2	39.7	37.1	33.8	31.2	27.9	5.9	4.2	5.1	5.1	5.1
85°	25.3	23.6	21.9	20.3	17.7	16.9	4.2	4.2	4.2	5.1	5.1
87.5°	6.8	5.9	6.8	6.8	5.1	5.9	3.4	3.4	3.4	4.2	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



TEST NUMBER: P150658

CATALOG NUMBER: TLM-E03-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	132.5	132.5	132.5	132.5	132.5
2.5°	112.3	112.3	110.6	113.1	113.1
5°	97.1	97.1	96.2	97.1	97.1
7.5°	88.6	87.8	87.8	87.8	88.6
10°	81.0	80.2	80.2	80.2	80.2
12.5°	74.3	73.4	72.6	73.4	73.4
15°	68.4	66.7	66.7	66.7	66.7
17.5°	63.3	61.6	60.8	60.8	60.8
20°	58.2	55.7	55.7	55.7	55.7
22.5°	53.2	50.6	50.6	50.6	50.6
25°	48.1	45.6	45.6	45.6	45.6
27.5°	43.9	41.4	41.4	41.4	41.4
30°	38.8	37.1	37.1	38.0	37.1
32.5°	35.4	32.9	32.9	33.8	33.8
35°	31.2	29.5	29.5	29.5	29.5
37.5°	27.0	25.3	25.3	25.3	25.3
40°	23.6	21.9	21.1	21.9	21.9
42.5°	20.3	18.6	17.7	17.7	17.7
45°	17.7	15.2	14.3	15.2	15.2
47.5°	14.3	12.7	12.7	13.5	13.5
50°	11.0	11.0	11.8	13.5	13.5
52.5°	10.1	10.1	11.8	13.5	13.5
55°	9.3	10.1	11.8	12.7	13.5
57.5°	8.4	10.1	11.8	12.7	12.7
60°	8.4	9.3	11.0	12.7	12.7
62.5°	7.6	8.4	10.1	11.8	11.8
65°	7.6	8.4	10.1	11.8	11.8
66°	7.6	8.4	10.1	11.8	11.8
67.5°	7.6	8.4	10.1	11.8	11.8
70°	7.6	8.4	10.1	11.0	11.0
72.5°	6.8	7.6	9.3	11.0	11.0
75°	6.8	7.6	9.3	11.0	11.0
77.5°	6.8	7.6	9.3	11.0	11.0
80°	6.8	7.6	9.3	10.1	11.0
82.5°	5.9	7.6	8.4	10.1	10.1
85°	5.9	6.8	8.4	9.3	10.1
87.5°	5.1	5.9	6.8	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)