

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: P154530

Luminaire Tested: **TLM-E01-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154530
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-T2
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

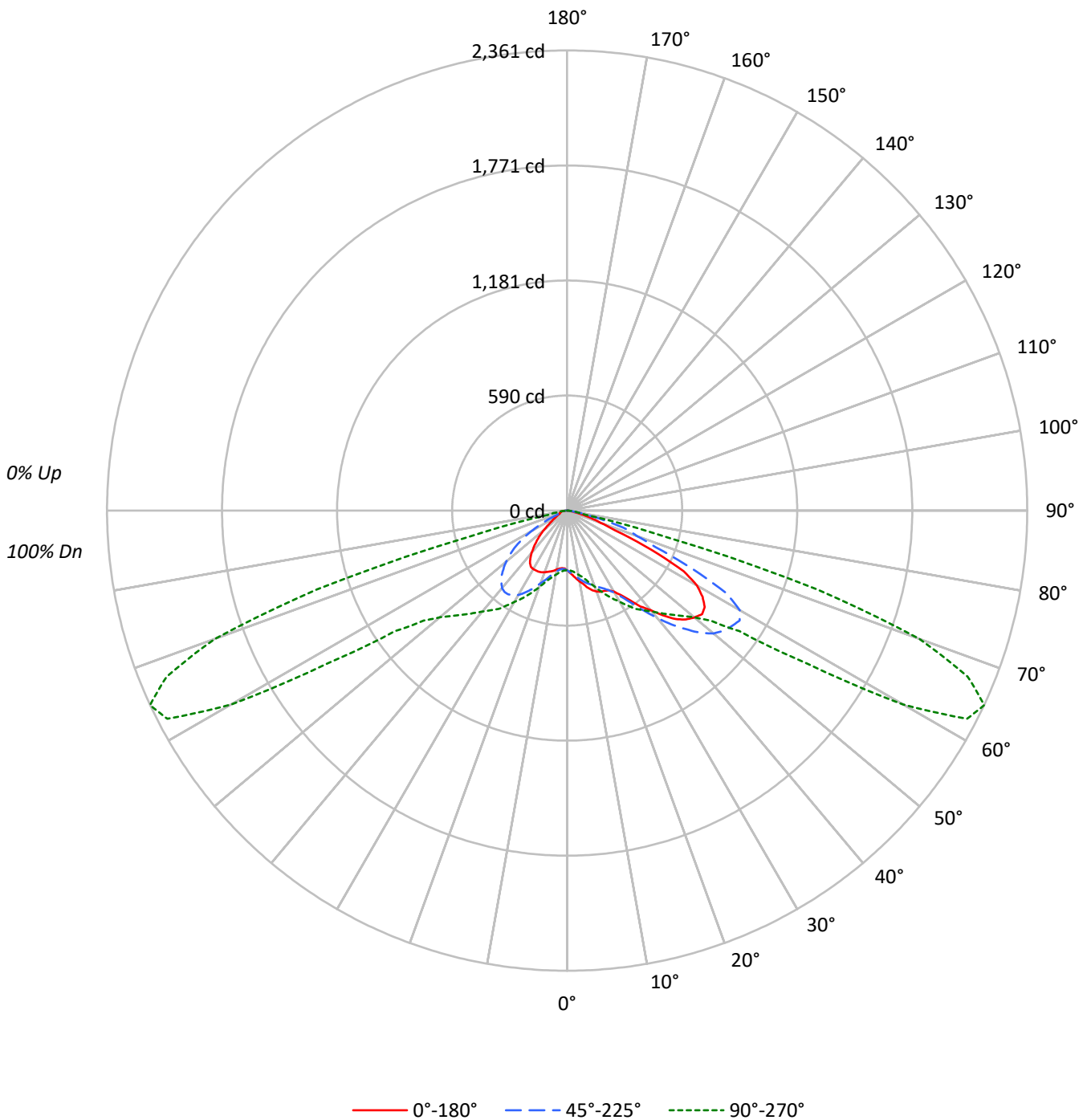
Lumens per Lamp: N/A
Luminaire Lumens: 3063.8 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): 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: P154530
CATALOG NUMBER: TLM-E01-LED-E1-T2

Luminous Intensity Polar Plot





TEST NUMBER: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

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	107	101	96	91	104	98	94	90	94	90	87	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61
3	84	71	61	53	81	69	60	53	66	58	51	63	56	50	60	54	50	47
4	75	60	50	42	72	59	49	41	56	48	41	54	46	40	51	45	39	37
5	67	52	42	34	65	51	41	33	49	40	33	46	39	33	44	38	32	30
6	61	46	35	28	59	45	35	27	43	34	27	41	33	27	39	32	27	24
7	56	40	30	23	54	40	30	23	38	29	23	36	28	23	35	28	22	20
8	52	36	26	20	50	35	26	20	34	26	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	28	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19394	19394	19394
5°	21210	19875	18858
10°	23724	21493	19693
15°	26876	24011	21173
20°	29802	28118	22687
25°	31739	33415	24173
30°	35043	39503	25348
35°	43386	47668	25685
40°	55073	55899	23391
45°	70534	67633	19727
50°	84024	83797	15396
55°	95123	119111	10962
60°	97382	251622	8611
65°	71615	353773	7236
70°	34008	355944	7164
75°	18519	132178	8734
80°	8751	21148	11194
85°	4141	13077	13077



TEST NUMBER: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	1.0
10°-20°	105.4	3.4
20°-30°	207.0	6.8
30°-40°	343.9	11.2
40°-50°	505.4	16.5
50°-60°	699.7	22.8
60°-70°	835.2	27.3
70°-80°	295.3	9.6
80°-90°	41.3	1.3
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°	343.0	11.2
0°-40°	687.0	22.4
0°-60°	1892.1	61.8
0°-90°	3063.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3063.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	306	306	306	306	306	
5°	334	327	313	301	297	33
15°	410	384	366	352	323	117
25°	454	441	478	450	346	212
35°	561	580	617	525	332	359
45°	788	860	755	476	220	603
55°	862	1033	1079	325	99	755
65°	478	712	2361	101	48	466
75°	76	214	540	40	36	93
85°	6	12	18	31	18	8
90°	0	0	0	0	0	



TEST NUMBER: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	319.7	320.0	319.3	319.0	318.0	316.3	315.0	313.7	313.7	313.7	312.7
5°	333.7	334.3	333.0	332.0	329.0	327.3	325.0	323.3	322.7	322.3	321.3
7.5°	351.3	350.3	348.3	347.7	345.3	341.7	337.3	334.0	334.0	333.7	334.0
10°	369.0	366.3	365.3	364.3	360.7	356.0	351.0	347.3	347.0	346.7	345.7
12.5°	386.7	385.7	384.7	381.0	377.3	370.0	364.3	360.7	360.3	360.7	359.3
15°	410.0	407.7	406.7	400.3	392.3	384.3	377.3	374.0	373.0	373.3	372.3
17.5°	428.0	428.0	425.7	418.7	408.3	397.3	390.0	388.0	387.7	387.7	388.0
20°	442.3	442.0	439.7	434.0	421.7	410.7	407.0	406.3	406.0	406.0	407.0
22.5°	450.3	449.7	448.7	442.3	432.7	425.3	425.7	427.7	428.3	429.0	430.3
25°	454.3	453.3	453.0	448.7	441.7	440.7	446.7	452.0	453.3	454.7	456.3
27.5°	461.0	459.3	460.0	458.3	456.7	459.7	472.0	477.7	478.7	480.3	481.3
30°	479.3	478.7	481.3	482.0	483.3	487.7	499.0	504.3	506.7	506.7	511.3
32.5°	514.3	514.7	515.3	522.3	524.7	527.7	533.7	538.0	538.3	538.7	543.0
35°	561.3	563.3	569.0	575.0	580.7	580.3	576.7	579.0	577.3	579.3	579.7
37.5°	620.7	618.0	626.3	640.0	648.7	646.3	630.0	619.3	622.3	621.0	620.0
40°	666.3	669.3	685.3	703.3	710.0	717.3	696.0	677.7	675.0	670.0	667.0
42.5°	729.3	729.7	742.7	756.0	775.3	791.3	777.7	751.3	743.3	737.3	724.3
45°	787.7	786.7	797.3	813.7	836.7	859.7	864.7	836.0	833.0	822.3	805.3
47.5°	826.7	825.3	832.7	854.0	891.3	929.0	949.7	941.0	935.3	931.0	904.3
50°	853.0	850.3	858.7	881.3	923.0	981.0	1035.0	1042.3	1040.0	1040.0	1023.0
52.5°	872.7	872.7	878.7	897.0	939.3	1011.7	1108.3	1145.3	1148.3	1151.7	1150.7
55°	861.7	863.3	878.3	905.0	949.7	1033.0	1169.0	1250.0	1266.7	1280.7	1296.7
57.5°	824.0	829.7	849.7	893.3	952.3	1049.0	1236.3	1396.7	1443.7	1484.3	1547.7
60°	769.0	776.3	805.3	861.0	932.7	1023.0	1260.0	1520.7	1595.3	1684.0	1849.3
62.5°	674.7	682.0	710.3	766.0	827.3	923.3	1162.0	1539.0	1658.3	1784.0	2034.0
65°	478.0	466.3	499.0	549.0	619.3	712.3	939.0	1416.0	1587.7	1758.0	2066.7
67.5°	266.3	265.3	285.3	322.7	390.0	490.0	647.0	1086.0	1244.0	1437.0	1816.0
70°	183.7	185.7	198.3	238.7	294.3	380.7	461.0	682.0	795.7	926.7	1299.3
72.5°	129.0	133.3	140.3	164.3	221.3	320.7	471.0	407.7	464.3	553.7	781.3
75°	75.7	78.7	83.7	95.3	126.0	214.3	487.7	358.3	358.3	379.3	472.7
77.5°	46.7	46.7	49.7	54.3	67.0	105.0	347.3	402.7	391.3	379.3	380.3
80°	24.0	25.7	30.0	32.3	37.3	48.0	156.0	375.7	412.0	436.3	419.3
82.5°	11.0	12.3	18.3	19.7	21.7	25.3	53.7	213.7	286.3	377.0	471.0
85°	5.7	5.7	9.7	12.0	13.0	11.7	19.7	86.3	130.7	199.3	312.0
87.5°	1.0	1.0	1.7	2.0	3.0	2.7	3.3	5.0	8.3	9.0	9.3
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: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	312.3	312.7	312.3	312.0	311.3	311.3	311.3	311.0	311.0	311.0	310.7
5°	321.3	320.0	320.3	319.7	319.3	319.0	319.3	318.7	318.0	318.3	318.0
7.5°	332.7	332.0	330.7	330.7	330.3	329.7	329.7	328.7	328.3	327.7	327.3
10°	345.3	343.7	344.3	343.7	344.0	342.7	342.0	341.3	340.7	340.7	341.0
12.5°	358.3	358.0	357.0	356.3	356.3	355.3	355.7	355.3	354.3	354.0	353.0
15°	371.7	371.7	370.7	371.0	370.7	370.0	369.3	369.3	368.7	368.0	368.3
17.5°	387.3	387.3	387.3	387.3	387.7	386.7	387.0	386.3	385.7	387.0	387.0
20°	407.7	409.0	409.0	408.7	410.3	409.3	409.0	410.7	409.0	411.3	411.0
22.5°	431.0	432.3	432.3	433.7	434.0	435.0	435.7	435.0	436.3	437.7	437.7
25°	457.0	458.3	459.3	461.3	462.3	461.7	462.0	463.7	464.3	465.7	467.0
27.5°	484.3	484.7	486.0	488.3	490.0	490.7	491.0	493.7	494.0	494.7	496.0
30°	511.0	514.3	513.7	516.7	517.7	518.7	520.7	521.7	524.0	525.3	525.3
32.5°	542.3	541.7	544.3	546.7	548.3	550.0	551.7	553.0	554.3	555.0	558.3
35°	581.3	582.7	582.7	583.0	587.0	587.3	588.7	591.7	592.7	594.7	596.0
37.5°	620.0	617.7	617.3	617.3	616.0	617.0	617.3	617.7	619.0	619.3	620.7
40°	663.3	660.3	657.7	656.0	653.3	649.7	649.0	647.3	648.3	648.0	648.3
42.5°	722.7	714.3	708.0	703.3	698.0	694.0	691.0	686.7	683.7	680.0	679.3
45°	798.3	782.7	772.0	764.3	756.7	745.7	739.3	732.7	726.7	720.7	715.7
47.5°	897.7	881.0	864.0	850.0	838.0	820.3	802.3	792.3	780.7	770.3	763.0
50°	1014.7	994.7	986.7	967.0	952.0	925.3	903.0	886.7	863.3	847.7	834.0
52.5°	1134.3	1129.3	1125.0	1108.3	1090.7	1075.3	1055.7	1027.0	1003.3	985.3	957.3
55°	1297.3	1299.7	1298.0	1289.0	1282.7	1268.0	1260.0	1235.0	1224.3	1198.3	1169.0
57.5°	1571.7	1590.3	1614.0	1623.3	1636.0	1624.0	1638.0	1655.0	1612.7	1627.3	1601.0
60°	1922.0	2007.7	2058.7	2121.3	2162.3	2219.7	2230.0	2245.0	2240.7	2249.0	2266.0
62.5°	2136.0	2237.7	2335.3	2406.3	2482.3	2524.3	2575.0	2610.3	2647.0	2671.7	2664.7
65°	2199.0	2303.7	2392.3	2470.0	2538.0	2589.3	2636.3	2680.7	2714.3	2738.0	2752.0
67.5°	1967.7	2104.3	2197.7	2288.7	2376.3	2430.3	2469.7	2512.7	2562.0	2603.0	2611.0
70°	1480.7	1685.7	1818.0	1927.0	2030.0	2102.7	2157.7	2197.7	2236.0	2265.3	2297.3
72.5°	926.0	1105.3	1256.7	1398.0	1507.3	1607.3	1653.7	1742.3	1730.7	1753.0	1777.0
75°	555.0	642.3	725.7	825.3	882.7	966.0	981.0	995.7	988.0	963.0	981.7
77.5°	385.7	400.0	399.3	393.7	387.7	373.0	354.0	343.7	336.7	326.7	330.7
80°	388.0	357.0	309.7	260.3	215.0	185.0	173.0	173.0	185.3	203.0	220.7
82.5°	463.7	430.7	384.0	321.3	254.7	207.3	175.7	163.0	165.3	183.3	206.0
85°	312.7	320.0	280.7	256.7	203.3	158.3	132.7	107.7	95.3	98.3	111.3
87.5°	11.3	13.7	5.0	6.7	4.7	4.0	4.0	4.3	3.0	3.7	3.3
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: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	310.3	310.0	310.0	309.3	309.3	309.0	309.0	308.7	308.3	308.3	308.0
5°	317.7	317.3	316.7	316.3	315.7	315.7	315.3	314.7	314.7	314.0	313.7
7.5°	328.0	327.3	326.7	326.3	326.0	325.0	325.0	324.3	324.3	323.7	323.3
10°	340.3	339.7	339.0	339.3	338.3	338.0	337.3	337.3	336.3	336.0	336.0
12.5°	353.7	353.3	353.3	352.3	352.0	351.7	350.3	350.3	350.3	349.7	350.0
15°	368.0	368.3	367.3	368.3	368.0	367.0	367.0	367.0	365.7	367.3	366.0
17.5°	387.3	388.3	387.7	388.0	387.3	387.3	387.7	387.3	388.0	388.0	390.0
20°	411.3	411.7	413.3	412.7	412.7	412.3	413.0	413.3	414.7	414.0	415.3
22.5°	437.7	439.3	439.7	441.0	441.0	440.7	441.3	442.7	443.3	444.3	444.0
25°	467.7	468.7	470.0	468.3	471.0	471.0	471.7	473.3	473.7	473.7	476.0
27.5°	495.7	498.3	498.7	500.3	499.3	500.0	502.3	503.3	504.7	504.7	505.3
30°	527.3	528.3	529.0	531.0	530.7	531.0	531.3	533.0	533.0	534.7	536.3
32.5°	560.0	560.7	561.3	563.3	564.0	565.3	564.7	566.0	567.7	568.0	569.0
35°	599.0	599.7	600.3	603.3	603.7	606.0	606.7	606.0	608.7	607.0	608.7
37.5°	621.7	624.7	625.3	627.3	626.7	628.3	629.3	630.7	631.3	632.7	635.3
40°	649.3	650.3	652.3	653.3	654.7	655.0	656.3	657.3	658.3	661.3	664.3
42.5°	677.7	679.0	680.0	681.3	683.0	684.3	685.3	688.3	689.0	691.0	696.7
45°	712.0	711.3	711.7	712.0	712.7	714.3	717.3	720.3	722.3	727.0	731.7
47.5°	754.7	750.3	748.7	746.0	746.7	750.3	751.0	756.0	760.0	764.3	770.0
50°	819.3	807.7	800.7	793.7	793.0	795.0	797.7	803.0	807.7	813.3	821.3
52.5°	928.0	905.7	891.7	872.3	867.0	866.0	864.0	867.0	868.3	876.0	891.0
55°	1148.0	1106.7	1080.0	1050.0	1022.0	1013.7	997.7	1001.0	997.7	1002.3	1024.7
57.5°	1607.3	1574.3	1548.3	1510.0	1462.0	1411.0	1398.3	1346.0	1356.3	1386.3	1367.0
60°	2274.3	2262.3	2243.7	2225.3	2159.7	2122.7	2062.3	2055.7	2013.3	2013.7	1986.0
62.5°	2647.7	2663.0	2651.7	2646.3	2642.7	2631.0	2601.0	2565.0	2511.0	2472.0	2414.7
65°	2754.3	2741.3	2729.0	2727.3	2726.3	2745.3	2749.7	2724.3	2675.3	2614.7	2548.7
67.5°	2630.0	2622.7	2623.3	2609.3	2618.0	2651.0	2674.0	2667.0	2622.0	2548.7	2464.7
70°	2334.0	2319.7	2334.3	2352.7	2365.7	2384.7	2407.7	2413.3	2372.3	2297.0	2211.3
72.5°	1747.7	1750.0	1764.0	1769.0	1821.3	1816.0	1836.7	1769.3	1739.7	1668.0	1624.0
75°	919.7	904.7	943.7	861.0	827.0	850.7	784.3	720.7	734.0	745.0	665.7
77.5°	325.0	304.0	268.3	254.0	211.3	179.0	146.3	132.0	124.3	120.3	115.3
80°	233.3	240.0	232.7	215.3	183.0	146.7	115.7	91.3	78.3	71.3	66.7
82.5°	236.0	262.3	274.0	269.0	239.7	181.3	119.7	76.3	56.7	47.3	44.0
85°	126.7	138.7	133.3	112.3	101.0	60.3	41.3	27.7	23.3	21.3	19.7
87.5°	5.0	4.0	3.3	3.3	3.7	4.0	3.3	3.7	3.3	3.3	3.3
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: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	307.3	307.3	307.3	307.0	306.3	304.7	303.0	301.7	300.7	299.7	298.3
5°	313.3	312.7	312.7	312.7	310.0	307.3	305.0	302.7	300.7	299.0	297.7
7.5°	323.3	323.0	321.7	321.3	319.3	315.0	312.3	308.3	306.0	303.7	303.0
10°	335.3	335.0	334.7	334.3	331.7	327.3	324.0	320.3	317.0	313.7	310.3
12.5°	349.3	349.0	348.7	347.7	346.7	344.3	340.7	336.7	332.7	325.7	322.0
15°	366.7	367.3	366.7	366.3	365.7	366.0	363.7	358.0	351.7	342.7	335.0
17.5°	389.7	389.0	388.7	390.0	389.7	391.3	390.7	383.3	373.7	359.3	346.0
20°	415.0	415.0	416.3	417.3	420.3	424.7	422.7	413.7	396.0	376.0	358.7
22.5°	445.3	446.0	447.3	446.7	451.3	458.3	459.0	446.3	423.3	395.7	371.3
25°	477.0	477.7	476.3	478.3	486.0	496.0	498.0	480.0	449.7	413.7	382.0
27.5°	507.0	507.7	507.7	510.3	517.7	534.7	536.7	516.7	476.3	429.3	389.7
30°	536.3	539.0	539.7	540.3	551.3	575.0	579.3	550.3	499.7	441.0	395.0
32.5°	573.3	574.3	575.7	577.3	590.0	619.0	619.0	579.3	514.7	448.3	396.0
35°	613.0	613.3	616.3	616.7	634.7	663.7	658.0	603.3	525.3	446.7	388.7
37.5°	637.0	638.3	641.3	645.3	664.3	705.3	692.3	624.0	527.3	435.7	372.0
40°	666.7	669.3	672.3	676.3	704.7	747.7	721.3	637.0	519.0	414.0	347.0
42.5°	698.7	702.3	707.0	714.3	748.0	785.0	743.3	639.0	500.0	389.7	317.3
45°	734.7	741.3	746.7	755.3	793.3	817.3	756.7	627.3	476.0	357.7	285.7
47.5°	776.3	781.7	791.0	800.3	838.3	839.3	758.0	604.7	443.3	325.7	252.0
50°	827.7	831.0	845.0	850.7	886.3	862.3	748.3	574.0	409.0	289.7	214.7
52.5°	896.0	900.7	918.7	927.3	952.7	893.7	734.7	540.7	369.7	249.3	176.3
55°	1031.0	1051.3	1064.0	1079.0	1095.3	964.7	728.7	505.0	325.3	202.7	139.7
57.5°	1410.0	1403.3	1431.3	1465.3	1465.0	1127.0	764.7	474.3	273.0	155.0	107.3
60°	1974.7	1981.0	1966.7	1987.0	1922.3	1328.3	814.0	442.0	214.0	115.3	82.0
62.5°	2394.3	2357.7	2337.3	2313.3	2171.0	1350.3	778.0	375.7	155.7	81.0	63.0
65°	2493.7	2450.7	2407.0	2361.3	2146.7	1217.3	638.3	275.7	100.7	55.7	50.0
67.5°	2395.7	2326.7	2271.0	2224.0	1967.0	1009.0	466.7	169.3	57.7	45.0	42.7
70°	2141.7	2065.3	1975.3	1922.7	1656.3	743.7	299.0	91.3	44.3	40.0	39.0
72.5°	1567.7	1505.0	1406.7	1346.3	1189.3	452.0	167.0	51.3	41.3	38.3	37.0
75°	610.7	578.0	537.0	540.3	482.3	200.0	75.7	44.3	40.3	37.7	36.3
77.5°	105.0	102.3	94.7	94.7	107.7	73.0	50.3	44.7	40.0	37.0	34.7
80°	63.0	61.7	58.7	58.0	56.0	51.3	48.3	45.3	39.3	35.0	32.0
82.5°	41.3	39.7	38.7	38.3	41.7	45.0	45.3	45.0	37.3	30.3	26.0
85°	17.7	17.7	17.7	18.0	24.0	36.3	37.3	40.0	30.7	23.7	18.7
87.5°	3.0	3.7	3.7	4.0	4.3	8.0	10.0	13.0	10.3	10.0	9.0
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: P154530

CATALOG NUMBER: TLM-E01-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	306.3	306.3	306.3
2.5°	298.0	297.3	297.3
5°	297.0	296.3	296.7
7.5°	301.0	299.7	300.0
10°	308.3	307.0	306.3
12.5°	317.7	316.0	316.0
15°	327.3	323.3	323.0
17.5°	335.3	330.3	329.7
20°	344.3	337.7	336.7
22.5°	352.7	343.7	342.3
25°	358.7	347.7	346.0
27.5°	361.3	348.3	347.0
30°	363.3	348.7	346.7
32.5°	361.3	345.7	344.0
35°	350.3	333.3	332.3
37.5°	331.3	312.3	311.0
40°	306.3	286.3	283.0
42.5°	274.3	255.7	252.0
45°	243.3	222.0	220.3
47.5°	210.0	189.7	190.7
50°	175.0	156.7	156.3
52.5°	141.7	125.7	124.7
55°	111.7	100.3	99.3
57.5°	88.3	82.3	81.3
60°	72.0	69.0	68.0
62.5°	58.0	57.0	56.7
65°	48.3	48.3	48.3
67.5°	42.0	42.3	42.3
70°	38.7	39.0	38.7
72.5°	37.3	38.3	38.3
75°	36.3	37.0	35.7
77.5°	35.7	36.0	33.7
80°	35.3	35.0	30.7
82.5°	30.7	29.7	26.0
85°	28.0	21.3	18.0
87.5°	14.3	10.0	7.7
90°	0.0	0.0	0.0

(END OF REPORT)