

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: P154528

Luminaire Tested: **TLM-E01-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154528
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-T2-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

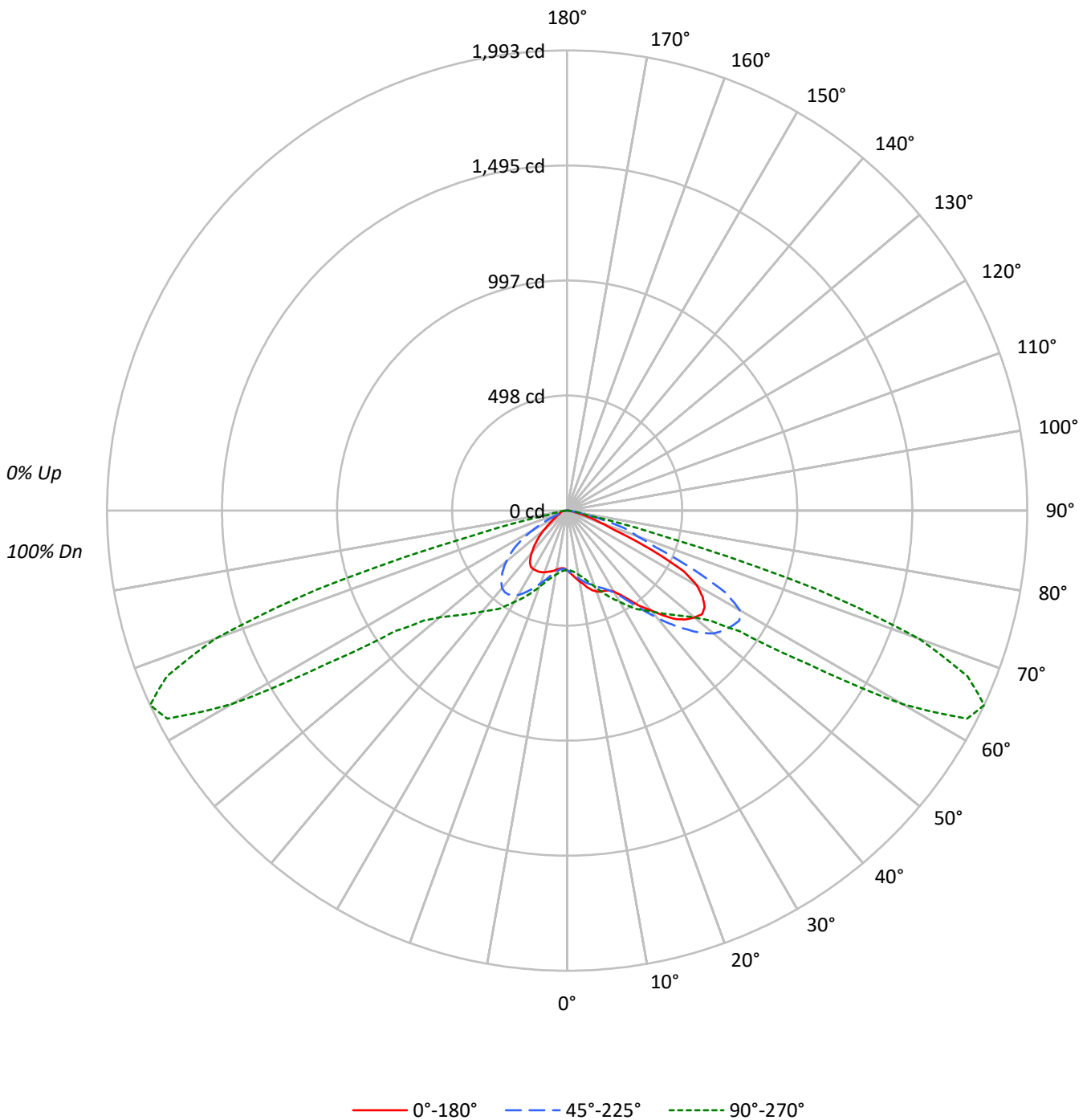
Lumens per Lamp: N/A
Luminaire Lumens: 2585.9 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (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	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°	16367	16367	16367
5°	17898	16773	15915
10°	20021	18144	16620
15°	22681	20268	17869
20°	25153	23731	19143
25°	26792	28204	20400
30°	29581	33339	21393
35°	36623	40233	21682
40°	46485	47179	19738
45°	59529	57084	16655
50°	70913	70726	12993
55°	80276	100532	9251
60°	82186	212366	7269
65°	60438	298579	6113
70°	28695	300406	6035
75°	15632	111555	7364
80°	7402	17867	9444
85°	3487	11043	11043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.0
10°-20°	88.9	3.4
20°-30°	174.7	6.8
30°-40°	290.3	11.2
40°-50°	426.5	16.5
50°-60°	590.5	22.8
60°-70°	704.9	27.3
70°-80°	249.3	9.6
80°-90°	34.8	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°	289.5	11.2
0°-40°	579.8	22.4
0°-60°	1596.9	61.8
0°-90°	2585.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	258	258	258	258	258	
5°	282	276	264	254	250	28
15°	346	324	309	297	273	98
25°	384	372	404	380	292	179
35°	474	490	520	443	280	303
45°	665	726	638	402	186	509
55°	727	872	911	275	84	637
65°	403	601	1993	85	41	393
75°	64	181	456	34	30	79
85°	5	10	15	26	15	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5
2.5°	269.8	270.1	269.5	269.2	268.4	267.0	265.9	264.7	264.7	264.7	263.9
5°	281.6	282.2	281.0	280.2	277.7	276.3	274.3	272.9	272.3	272.0	271.2
7.5°	296.5	295.7	294.0	293.4	291.5	288.4	284.7	281.9	281.9	281.6	281.9
10°	311.4	309.2	308.3	307.5	304.4	300.5	296.2	293.1	292.9	292.6	291.7
12.5°	326.3	325.5	324.7	321.6	318.5	312.3	307.5	304.4	304.1	304.4	303.3
15°	346.0	344.1	343.2	337.9	331.1	324.4	318.5	315.7	314.8	315.1	314.2
17.5°	361.2	361.2	359.3	353.4	344.6	335.3	329.2	327.5	327.2	327.2	327.5
20°	373.3	373.0	371.1	366.3	355.9	346.6	343.5	342.9	342.7	342.7	343.5
22.5°	380.1	379.5	378.7	373.3	365.2	359.0	359.3	360.9	361.5	362.1	363.2
25°	383.5	382.6	382.3	378.7	372.8	371.9	377.0	381.5	382.6	383.7	385.1
27.5°	389.1	387.7	388.2	386.8	385.4	388.0	398.4	403.1	404.0	405.4	406.2
30°	404.6	404.0	406.2	406.8	407.9	411.6	421.2	425.7	427.6	427.6	431.6
32.5°	434.1	434.4	434.9	440.8	442.8	445.3	450.4	454.1	454.3	454.6	458.3
35°	473.8	475.4	480.2	485.3	490.1	489.8	486.7	488.7	487.3	489.0	489.2
37.5°	523.8	521.6	528.6	540.2	547.5	545.5	531.7	522.7	525.2	524.1	523.3
40°	562.4	564.9	578.4	593.6	599.2	605.4	587.4	571.9	569.7	565.5	562.9
42.5°	615.6	615.8	626.8	638.1	654.4	667.9	656.3	634.1	627.4	622.3	611.3
45°	664.8	663.9	672.9	686.7	706.1	725.6	729.8	705.6	703.0	694.0	679.7
47.5°	697.7	696.6	702.8	720.8	752.3	784.1	801.5	794.2	789.4	785.8	763.2
50°	719.9	717.7	724.7	743.8	779.0	828.0	873.5	879.7	877.8	877.8	863.4
52.5°	736.5	736.5	741.6	757.1	792.8	853.8	935.4	966.7	969.2	972.0	971.2
55°	727.2	728.6	741.3	763.8	801.5	871.8	986.6	1055.0	1069.1	1080.9	1094.4
57.5°	695.4	700.2	717.1	754.0	803.8	885.3	1043.5	1178.8	1218.4	1252.8	1306.2
60°	649.0	655.2	679.7	726.7	787.2	863.4	1063.4	1283.4	1346.4	1421.3	1560.8
62.5°	569.4	575.6	599.5	646.5	698.3	779.3	980.7	1298.9	1399.6	1505.7	1716.7
65°	403.4	393.6	421.2	463.4	522.7	601.2	792.5	1195.1	1340.0	1483.7	1744.2
67.5°	224.8	223.9	240.8	272.3	329.2	413.6	546.1	916.6	1049.9	1212.8	1532.7
70°	155.0	156.7	167.4	201.4	248.4	321.3	389.1	575.6	671.5	782.1	1096.6
72.5°	108.9	112.5	118.4	138.7	186.8	270.6	397.5	344.1	391.9	467.3	659.4
75°	63.9	66.4	70.6	80.5	106.3	180.9	411.6	302.4	302.4	320.2	398.9
77.5°	39.4	39.4	41.9	45.9	56.5	88.6	293.1	339.8	330.3	320.2	321.0
80°	20.3	21.7	25.3	27.3	31.5	40.5	131.7	317.1	347.7	368.3	353.9
82.5°	9.3	10.4	15.5	16.6	18.3	21.4	45.3	180.3	241.7	318.2	397.5
85°	4.8	4.8	8.2	10.1	11.0	9.8	16.6	72.9	110.3	168.2	263.3
87.5°	0.8	0.8	1.4	1.7	2.5	2.3	2.8	4.2	7.0	7.6	7.9
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5
2.5°	263.6	263.9	263.6	263.3	262.8	262.8	262.8	262.5	262.5	262.5	262.2
5°	271.2	270.1	270.4	269.8	269.5	269.2	269.5	269.0	268.4	268.7	268.4
7.5°	280.8	280.2	279.1	279.1	278.8	278.2	278.2	277.4	277.1	276.5	276.3
10°	291.5	290.1	290.6	290.1	290.3	289.2	288.6	288.1	287.5	287.5	287.8
12.5°	302.4	302.1	301.3	300.7	300.7	299.9	300.2	299.9	299.1	298.8	297.9
15°	313.7	313.7	312.8	313.1	312.8	312.3	311.7	311.7	311.2	310.6	310.9
17.5°	326.9	326.9	326.9	326.9	327.2	326.3	326.6	326.1	325.5	326.6	326.6
20°	344.1	345.2	345.2	344.9	346.3	345.5	345.2	346.6	345.2	347.2	346.9
22.5°	363.8	364.9	364.9	366.0	366.3	367.1	367.7	367.1	368.3	369.4	369.4
25°	385.7	386.8	387.7	389.4	390.2	389.6	389.9	391.3	391.9	393.0	394.1
27.5°	408.8	409.1	410.2	412.1	413.6	414.1	414.4	416.7	416.9	417.5	418.6
30°	431.3	434.1	433.5	436.1	436.9	437.7	439.4	440.3	442.3	443.4	443.4
32.5°	457.7	457.2	459.4	461.4	462.8	464.2	465.6	466.7	467.9	468.4	471.2
35°	490.6	491.8	491.8	492.0	495.4	495.7	496.8	499.4	500.2	501.9	503.0
37.5°	523.3	521.3	521.0	521.0	519.9	520.7	521.0	521.3	522.4	522.7	523.8
40°	559.8	557.3	555.1	553.7	551.4	548.3	547.8	546.3	547.2	546.9	547.2
42.5°	609.9	602.9	597.5	593.6	589.1	585.7	583.2	579.5	577.0	573.9	573.4
45°	673.8	660.6	651.6	645.1	638.6	629.3	624.0	618.4	613.3	608.2	604.0
47.5°	757.6	743.6	729.2	717.4	707.3	692.4	677.2	668.7	658.9	650.2	644.0
50°	856.4	839.5	832.7	816.1	803.5	781.0	762.1	748.3	728.6	715.4	703.9
52.5°	957.4	953.1	949.5	935.4	920.5	907.6	891.0	866.8	846.8	831.6	808.0
55°	1094.9	1096.9	1095.5	1087.9	1082.6	1070.2	1063.4	1042.3	1033.3	1011.4	986.6
57.5°	1326.5	1342.2	1362.2	1370.1	1380.8	1370.6	1382.5	1396.8	1361.1	1373.5	1351.2
60°	1622.2	1694.5	1737.5	1790.4	1825.0	1873.4	1882.1	1894.8	1891.1	1898.1	1912.5
62.5°	1802.8	1888.6	1971.0	2030.9	2095.1	2130.5	2173.3	2203.1	2234.0	2254.9	2249.0
65°	1855.9	1944.3	2019.1	2084.7	2142.0	2185.4	2225.0	2262.5	2290.9	2310.8	2322.7
67.5°	1660.7	1776.0	1854.8	1931.6	2005.6	2051.2	2084.4	2120.7	2162.3	2196.9	2203.7
70°	1249.7	1422.7	1534.4	1626.4	1713.3	1774.6	1821.1	1854.8	1887.2	1911.9	1938.9
72.5°	781.5	932.9	1060.6	1179.9	1272.2	1356.6	1395.7	1470.5	1460.7	1479.5	1499.8
75°	468.4	542.1	612.5	696.6	745.0	815.3	828.0	840.3	833.9	812.8	828.5
77.5°	325.5	337.6	337.0	332.3	327.2	314.8	298.8	290.1	284.1	275.7	279.1
80°	327.5	301.3	261.4	219.7	181.5	156.1	146.0	146.0	156.4	171.3	186.2
82.5°	391.3	363.5	324.1	271.2	214.9	175.0	148.3	137.6	139.5	154.7	173.9
85°	263.9	270.1	236.9	216.6	171.6	133.6	112.0	90.9	80.5	83.0	94.0
87.5°	9.6	11.5	4.2	5.6	3.9	3.4	3.4	3.7	2.5	3.1	2.8
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5
2.5°	261.9	261.6	261.6	261.1	261.1	260.8	260.8	260.5	260.2	260.2	259.9
5°	268.1	267.8	267.3	267.0	266.4	266.4	266.1	265.6	265.6	265.0	264.7
7.5°	276.8	276.3	275.7	275.4	275.1	274.3	274.3	273.7	273.7	273.2	272.9
10°	287.2	286.7	286.1	286.4	285.6	285.3	284.7	284.7	283.9	283.6	283.6
12.5°	298.5	298.2	298.2	297.4	297.1	296.8	295.7	295.7	295.7	295.1	295.4
15°	310.6	310.9	310.0	310.9	310.6	309.7	309.7	309.7	308.6	310.0	308.9
17.5°	326.9	327.7	327.2	327.5	326.9	326.9	327.2	326.9	327.5	327.5	329.2
20°	347.2	347.4	348.8	348.3	348.3	348.0	348.6	348.8	350.0	349.4	350.5
22.5°	369.4	370.8	371.1	372.2	372.2	371.9	372.5	373.6	374.2	375.0	374.7
25°	394.7	395.6	396.7	395.3	397.5	397.5	398.1	399.5	399.8	399.8	401.7
27.5°	418.3	420.6	420.9	422.3	421.4	422.0	424.0	424.8	425.9	425.9	426.5
30°	445.1	445.9	446.5	448.2	447.9	448.2	448.4	449.8	449.8	451.3	452.7
32.5°	472.6	473.2	473.8	475.4	476.0	477.1	476.6	477.7	479.1	479.4	480.2
35°	505.6	506.1	506.7	509.2	509.5	511.5	512.0	511.5	513.7	512.3	513.7
37.5°	524.7	527.2	527.8	529.5	528.9	530.3	531.2	532.3	532.8	534.0	536.2
40°	548.0	548.9	550.6	551.4	552.5	552.8	553.9	554.8	555.6	558.2	560.7
42.5°	571.9	573.1	573.9	575.0	576.4	577.6	578.4	580.9	581.5	583.2	588.0
45°	600.9	600.4	600.6	600.9	601.5	602.9	605.4	608.0	609.6	613.6	617.5
47.5°	636.9	633.3	631.9	629.6	630.2	633.3	633.8	638.1	641.4	645.1	649.9
50°	691.5	681.7	675.8	669.8	669.3	671.0	673.2	677.7	681.7	686.4	693.2
52.5°	783.2	764.4	752.6	736.2	731.7	730.9	729.2	731.7	732.9	739.3	752.0
55°	968.9	934.0	911.5	886.2	862.6	855.5	842.0	844.8	842.0	846.0	864.8
57.5°	1356.6	1328.7	1306.8	1274.4	1233.9	1190.9	1180.2	1136.0	1144.7	1170.1	1153.7
60°	1919.5	1909.4	1893.6	1878.2	1822.7	1791.5	1740.6	1735.0	1699.2	1699.5	1676.2
62.5°	2234.6	2247.5	2238.0	2233.5	2230.4	2220.5	2195.2	2164.8	2119.3	2086.3	2038.0
65°	2324.6	2313.7	2303.3	2301.8	2301.0	2317.0	2320.7	2299.3	2258.0	2206.8	2151.1
67.5°	2219.7	2213.5	2214.1	2202.3	2209.6	2237.4	2256.8	2250.9	2212.9	2151.1	2080.2
70°	1969.9	1957.8	1970.2	1985.6	1996.6	2012.6	2032.0	2036.8	2002.2	1938.6	1866.3
72.5°	1475.0	1477.0	1488.8	1493.0	1537.2	1532.7	1550.1	1493.3	1468.3	1407.8	1370.6
75°	776.2	763.5	796.4	726.7	698.0	718.0	662.0	608.2	619.5	628.8	561.8
77.5°	274.3	256.6	226.5	214.4	178.4	151.1	123.5	111.4	104.9	101.6	97.3
80°	196.9	202.6	196.4	181.7	154.5	123.8	97.6	77.1	66.1	60.2	56.3
82.5°	199.2	221.4	231.3	227.0	202.3	153.0	101.0	64.4	47.8	39.9	37.1
85°	106.9	117.0	112.5	94.8	85.2	50.9	34.9	23.4	19.7	18.0	16.6
87.5°	4.2	3.4	2.8	2.8	3.1	3.4	2.8	3.1	2.8	2.8	2.8
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: P154528

CATALOG NUMBER: TLM-E01-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5	258.5
2.5°	259.4	259.4	259.4	259.1	258.5	257.1	255.7	254.6	253.8	252.9	251.8
5°	264.5	263.9	263.9	263.9	261.6	259.4	257.4	255.4	253.8	252.4	251.2
7.5°	272.9	272.6	271.5	271.2	269.5	265.9	263.6	260.2	258.3	256.3	255.7
10°	283.0	282.7	282.5	282.2	279.9	276.3	273.5	270.4	267.5	264.7	261.9
12.5°	294.8	294.6	294.3	293.4	292.6	290.6	287.5	284.1	280.8	274.9	271.8
15°	309.5	310.0	309.5	309.2	308.6	308.9	306.9	302.1	296.8	289.2	282.7
17.5°	328.9	328.3	328.0	329.2	328.9	330.3	329.7	323.5	315.4	303.3	292.0
20°	350.3	350.3	351.4	352.2	354.8	358.4	356.7	349.1	334.2	317.3	302.7
22.5°	375.9	376.4	377.5	377.0	380.9	386.8	387.4	376.7	357.3	333.9	313.4
25°	402.6	403.1	402.0	403.7	410.2	418.6	420.3	405.1	379.5	349.1	322.4
27.5°	427.9	428.5	428.5	430.7	436.9	451.3	452.9	436.1	402.0	362.4	328.9
30°	452.7	454.9	455.5	456.0	465.3	485.3	489.0	464.5	421.7	372.2	333.4
32.5°	483.9	484.7	485.9	487.3	498.0	522.4	522.4	489.0	434.4	378.4	334.2
35°	517.4	517.6	520.2	520.5	535.7	560.1	555.3	509.2	443.4	377.0	328.0
37.5°	537.6	538.7	541.3	544.7	560.7	595.3	584.3	526.7	445.1	367.7	314.0
40°	562.7	564.9	567.4	570.8	594.7	631.0	608.8	537.6	438.0	349.4	292.9
42.5°	589.7	592.8	596.7	602.9	631.3	662.5	627.4	539.3	422.0	328.9	267.8
45°	620.1	625.7	630.2	637.5	669.6	689.8	638.6	529.5	401.7	301.9	241.1
47.5°	655.2	659.7	667.6	675.5	707.5	708.4	639.7	510.3	374.2	274.9	212.7
50°	698.5	701.4	713.2	718.0	748.1	727.8	631.6	484.5	345.2	244.5	181.2
52.5°	756.2	760.2	775.3	782.7	804.0	754.2	620.1	456.3	312.0	210.4	148.8
55°	870.2	887.3	898.0	910.7	924.5	814.2	615.0	426.2	274.6	171.0	117.9
57.5°	1190.0	1184.4	1208.0	1236.7	1236.4	951.2	645.4	400.3	230.4	130.8	90.6
60°	1666.6	1671.9	1659.8	1677.0	1622.4	1121.1	687.0	373.0	180.6	97.3	69.2
62.5°	2020.8	1989.8	1972.7	1952.4	1832.3	1139.7	656.6	317.1	131.4	68.4	53.2
65°	2104.6	2068.3	2031.5	1992.9	1811.8	1027.4	538.7	232.7	85.0	47.0	42.2
67.5°	2021.9	1963.7	1916.7	1877.0	1660.1	851.6	393.9	142.9	48.7	38.0	36.0
70°	1807.5	1743.1	1667.2	1622.7	1397.9	627.6	252.4	77.1	37.4	33.8	32.9
72.5°	1323.1	1270.2	1187.2	1136.3	1003.8	381.5	140.9	43.3	34.9	32.4	31.2
75°	515.4	487.8	453.2	456.0	407.1	168.8	63.9	37.4	34.0	31.8	30.7
77.5°	88.6	86.4	79.9	79.9	90.9	61.6	42.5	37.7	33.8	31.2	29.3
80°	53.2	52.0	49.5	49.0	47.3	43.3	40.8	38.3	33.2	29.5	27.0
82.5°	34.9	33.5	32.6	32.4	35.2	38.0	38.3	38.0	31.5	25.6	21.9
85°	14.9	14.9	14.9	15.2	20.3	30.7	31.5	33.8	25.9	20.0	15.8
87.5°	2.5	3.1	3.1	3.4	3.7	6.8	8.4	11.0	8.7	8.4	7.6
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: P154528

CATALOG NUMBER: TLM-E01-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	258.5	258.5	258.5
2.5°	251.5	250.9	250.9
5°	250.7	250.1	250.4
7.5°	254.0	252.9	253.2
10°	260.2	259.1	258.5
12.5°	268.1	266.7	266.7
15°	276.3	272.9	272.6
17.5°	283.0	278.8	278.2
20°	290.6	285.0	284.1
22.5°	297.6	290.1	288.9
25°	302.7	293.4	292.0
27.5°	305.0	294.0	292.9
30°	306.7	294.3	292.6
32.5°	305.0	291.7	290.3
35°	295.7	281.3	280.5
37.5°	279.6	263.6	262.5
40°	258.5	241.7	238.8
42.5°	231.5	215.8	212.7
45°	205.4	187.4	186.0
47.5°	177.2	160.1	160.9
50°	147.7	132.2	131.9
52.5°	119.6	106.1	105.2
55°	94.2	84.7	83.8
57.5°	74.6	69.5	68.6
60°	60.8	58.2	57.4
62.5°	49.0	48.1	47.8
65°	40.8	40.8	40.8
67.5°	35.4	35.7	35.7
70°	32.6	32.9	32.6
72.5°	31.5	32.4	32.4
75°	30.7	31.2	30.1
77.5°	30.1	30.4	28.4
80°	29.8	29.5	25.9
82.5°	25.9	25.0	21.9
85°	23.6	18.0	15.2
87.5°	12.1	8.4	6.5
90°	0.0	0.0	0.0

(END OF REPORT)