

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: P155568

Luminaire Tested: **TLM-E01-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
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-T3-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

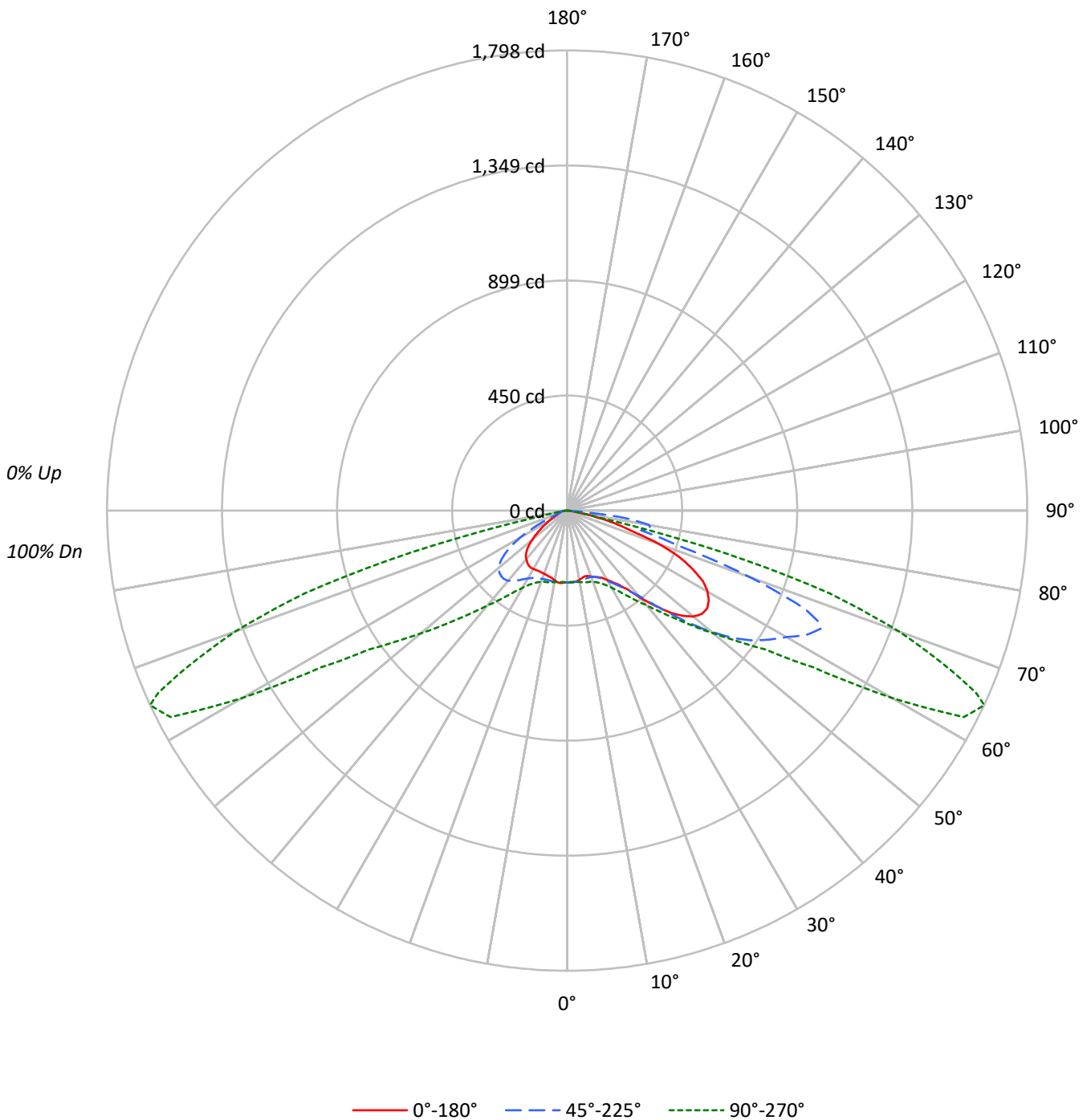
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-E01-LED-E1-T3-8030

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	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17760	17760	17760
5°	17828	17809	18095
10°	17674	18214	17777
15°	17410	19016	17522
20°	18483	19958	17687
25°	20051	21895	18241
30°	22855	25465	19272
35°	27401	31228	20267
40°	36690	39972	20507
45°	50127	53234	20076
50°	63437	73494	17652
55°	73696	104628	14042
60°	80299	185038	10650
65°	81053	269333	8045
70°	71033	255105	6720
75°	46946	154367	6874
80°	17138	15679	8095
85°	2833	10389	9008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	1.0
10°-20°	79.3	3.0
20°-30°	136.3	5.2
30°-40°	221.3	8.5
40°-50°	369.4	14.2
50°-60°	581.6	22.3
60°-70°	793.1	30.5
70°-80°	343.3	13.2
80°-90°	51.6	2.0
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°	242.4	9.3
0°-40°	463.7	17.8
0°-60°	1414.7	54.4
0°-90°	2602.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	280	280	280	280	280	
5°	280	281	280	284	285	27
15°	266	276	290	282	267	76
25°	287	289	313	291	261	134
35°	354	362	404	332	262	230
45°	560	567	594	364	224	430
55°	668	884	948	300	127	589
65°	541	1093	1798	105	54	525
75°	192	299	631	28	28	205
85°	4	66	14	20	12	10
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°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
2.5°	281.6	282.7	281.6	281.9	282.2	281.9	281.6	281.6	280.8	281.3	281.9
5°	280.5	281.3	281.0	281.3	281.6	281.3	281.0	281.3	280.8	281.0	281.9
7.5°	279.1	278.8	279.1	279.6	280.2	280.2	280.2	280.5	280.2	280.2	281.0
10°	274.9	275.1	275.7	276.5	276.8	277.7	277.7	278.5	278.8	279.4	280.5
12.5°	269.5	269.8	270.4	270.9	272.3	273.7	273.7	275.7	276.5	278.0	279.9
15°	265.6	265.9	266.4	267.0	268.1	269.5	270.4	272.6	274.0	276.5	279.4
17.5°	267.8	267.5	268.1	268.4	268.4	269.5	269.5	271.2	272.9	275.1	278.8
20°	274.3	274.3	274.9	274.9	274.6	275.1	274.0	274.0	274.3	275.4	278.0
22.5°	280.8	280.5	281.6	282.2	282.5	283.3	282.2	281.9	280.5	279.6	280.5
25°	287.0	286.7	288.1	288.9	290.3	291.2	291.2	291.2	290.1	288.6	287.8
27.5°	296.5	296.5	297.9	298.8	299.9	301.6	302.4	302.4	302.7	300.7	299.3
30°	312.6	312.8	313.1	314.2	315.4	315.9	317.1	317.9	318.7	317.6	315.4
32.5°	331.7	330.0	330.0	331.7	333.1	334.8	335.3	336.5	338.2	337.3	337.0
35°	354.5	353.9	353.4	353.9	355.6	357.6	359.8	361.8	360.7	362.4	361.5
37.5°	388.2	388.8	389.1	389.1	388.8	389.4	390.5	392.5	391.9	392.5	393.6
40°	443.9	442.0	440.0	440.3	437.5	438.0	433.5	435.5	435.8	433.8	434.7
42.5°	499.6	500.8	501.6	503.9	501.9	500.8	496.5	496.5	494.3	492.3	491.8
45°	559.8	562.1	562.4	566.9	565.2	568.8	571.9	571.1	567.4	567.2	563.2
47.5°	608.0	611.6	615.6	620.9	625.1	633.3	642.8	647.6	650.4	652.7	648.2
50°	644.0	645.7	655.8	664.2	673.5	687.0	700.2	717.4	731.2	737.6	743.8
52.5°	663.4	667.6	678.6	691.8	708.1	728.4	749.7	777.0	800.7	816.4	830.5
55°	667.6	671.8	684.2	701.1	723.3	750.6	781.3	818.4	853.8	884.2	913.8
57.5°	655.8	660.6	673.8	693.2	719.4	752.6	791.1	839.8	888.7	938.0	981.6
60°	634.1	640.0	652.1	671.3	700.2	737.6	783.8	844.8	913.5	988.9	1072.4
62.5°	598.4	604.6	615.8	636.9	666.8	708.1	761.6	837.5	934.6	1053.3	1201.6
65°	541.0	543.8	557.6	579.0	605.4	651.0	709.8	801.5	927.8	1093.0	1297.2
66°	515.1	519.9	528.3	545.5	570.8	613.6	672.7	765.8	902.2	1079.2	1294.7
67.5°	474.6	478.3	483.9	495.4	510.9	542.4	598.4	686.4	824.0	1009.4	1240.9
70°	383.7	385.4	393.0	397.0	402.3	412.7	433.0	483.6	590.8	764.9	1001.5
72.5°	261.6	266.4	274.6	285.8	300.5	314.5	324.1	330.6	353.6	456.3	667.3
75°	191.9	196.9	207.3	222.3	247.9	277.1	307.5	321.6	312.0	298.8	371.6
77.5°	111.4	118.2	126.9	141.2	164.9	203.7	255.7	301.9	333.1	335.1	318.2
80°	47.0	47.8	53.2	60.5	75.1	102.4	142.9	209.3	278.5	325.2	336.2
82.5°	10.7	13.2	16.9	20.0	24.5	33.8	50.1	83.3	150.5	236.0	307.8
85°	3.9	3.9	5.3	7.9	9.0	10.1	13.2	21.1	36.0	66.4	138.4
87.5°	0.0	0.3	0.6	0.6	1.1	1.4	2.3	3.1	2.8	2.5	8.4
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
2.5°	281.3	281.0	280.5	280.5	280.5	280.5	279.9	280.2	279.6	279.9	279.9
5°	281.0	281.0	280.8	280.2	280.5	280.5	280.8	280.2	280.2	280.5	280.2
7.5°	281.0	280.8	280.8	280.8	281.0	280.8	281.0	281.0	281.0	281.3	281.3
10°	281.0	281.0	281.6	281.9	281.9	282.2	283.0	283.0	283.3	283.6	284.1
12.5°	281.3	282.5	283.3	284.1	284.4	285.0	286.4	286.4	287.0	287.8	288.1
15°	281.6	283.3	285.0	285.6	286.1	287.2	288.6	289.2	290.1	290.9	291.5
17.5°	281.3	283.6	285.6	286.4	287.2	288.6	290.3	290.9	292.0	293.1	294.3
20°	281.0	284.1	287.2	288.4	289.5	291.5	293.7	295.1	296.2	297.9	299.1
22.5°	282.7	286.4	290.6	292.3	294.3	296.8	299.9	301.6	303.0	304.7	305.5
25°	288.1	290.9	296.0	298.8	301.3	305.5	309.7	311.7	313.4	314.8	315.1
27.5°	297.1	297.9	304.1	307.8	311.4	318.2	323.2	324.7	327.7	328.9	328.6
30°	311.7	310.3	315.4	321.0	326.3	335.6	341.8	345.5	348.3	348.3	346.0
32.5°	332.8	330.6	332.0	338.4	344.6	358.1	365.4	370.2	372.2	371.6	366.9
35°	360.4	359.0	358.1	363.2	373.0	388.8	398.4	400.9	404.0	403.4	397.2
37.5°	393.0	391.9	391.9	397.8	407.4	430.7	441.1	442.8	442.5	438.0	426.5
40°	431.6	431.0	428.5	431.8	440.0	470.4	484.5	486.7	483.6	476.3	462.8
42.5°	487.0	483.6	475.7	477.7	483.9	513.4	531.7	537.9	534.8	527.5	505.6
45°	559.3	555.6	542.4	540.7	544.1	570.0	593.6	595.0	594.5	585.2	559.3
47.5°	644.2	638.6	624.6	620.1	618.9	642.8	665.6	667.9	666.5	652.7	618.1
50°	736.2	728.1	718.8	715.7	711.2	728.4	751.4	751.7	746.1	727.0	694.6
52.5°	834.4	831.6	829.9	826.8	824.9	839.8	853.8	845.4	837.0	817.0	788.9
55°	933.5	945.0	956.8	957.9	961.3	977.3	977.1	954.0	947.8	936.8	909.0
57.5°	1038.7	1081.4	1118.6	1130.1	1141.4	1171.2	1168.4	1145.6	1137.7	1124.2	1101.1
60°	1181.9	1297.2	1404.4	1430.0	1447.7	1483.5	1480.1	1444.9	1461.2	1460.1	1430.3
62.5°	1382.5	1574.3	1735.0	1774.4	1786.7	1790.7	1769.3	1731.3	1747.3	1765.3	1673.6
65°	1518.3	1744.0	1908.8	1939.2	1940.9	1893.9	1846.4	1801.6	1797.7	1782.2	1651.1
66°	1521.4	1752.4	1917.8	1947.4	1937.0	1872.8	1812.6	1767.6	1748.2	1714.1	1578.3
67.5°	1466.9	1699.8	1877.9	1909.1	1886.3	1795.5	1712.5	1654.5	1616.5	1561.4	1441.5
70°	1231.9	1462.9	1682.4	1740.6	1747.9	1612.3	1497.2	1429.2	1378.0	1302.3	1199.0
72.5°	916.0	1124.8	1318.3	1374.0	1402.4	1294.1	1197.1	1145.3	1075.2	995.6	922.2
75°	574.2	721.6	851.3	890.4	863.7	779.8	721.6	699.9	631.0	583.5	550.0
77.5°	328.3	374.5	384.9	369.9	338.4	259.1	184.3	136.4	118.4	131.1	144.6
80°	320.4	293.7	234.1	205.9	186.5	128.3	75.4	51.8	43.0	44.2	47.8
82.5°	347.2	372.5	306.7	250.1	209.9	141.8	78.2	41.6	28.1	33.2	37.4
85°	225.6	314.0	282.7	238.3	193.0	121.3	64.4	21.7	14.3	18.8	25.9
87.5°	22.8	25.0	21.4	29.0	21.7	10.1	5.1	3.1	2.8	3.4	5.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
2.5°	280.2	280.2	280.5	280.8	281.0	281.3	281.3	281.3	281.3	281.9	281.6
5°	280.8	281.3	281.9	282.2	282.7	282.7	283.6	283.3	283.3	284.1	284.4
7.5°	281.9	282.7	283.9	283.6	284.7	284.4	285.0	285.0	284.1	284.4	283.9
10°	284.4	285.6	286.1	285.3	285.6	284.4	284.1	282.7	281.0	280.2	279.1
12.5°	288.6	289.8	289.8	288.4	286.7	284.1	282.2	279.1	276.5	275.1	273.7
15°	292.3	293.4	293.1	290.9	288.4	284.4	281.6	278.0	274.3	272.0	270.6
17.5°	295.1	295.7	294.8	291.7	288.9	285.3	282.5	278.5	274.3	271.5	269.0
20°	299.3	298.8	296.8	292.9	289.8	286.4	284.1	280.8	276.0	272.3	268.7
22.5°	305.5	303.3	299.6	295.4	292.3	289.2	287.0	283.3	278.5	274.0	269.8
25°	313.7	309.2	304.1	299.6	296.8	293.4	290.9	287.0	281.9	276.8	271.8
27.5°	325.5	317.6	311.2	307.2	304.1	299.9	296.8	291.7	286.4	280.5	274.9
30°	338.7	328.0	321.8	318.7	315.4	310.9	306.1	299.6	293.4	287.0	280.2
32.5°	355.9	342.9	337.0	333.9	329.4	323.8	318.2	310.9	302.1	293.7	285.6
35°	378.4	365.2	359.0	354.2	348.0	340.7	332.5	322.7	310.9	299.6	289.2
37.5°	402.6	388.2	382.3	377.3	368.0	358.4	346.9	332.5	316.5	301.6	288.6
40°	433.2	420.0	412.4	403.7	392.7	376.1	358.1	337.3	316.8	298.5	283.3
42.5°	472.1	458.8	447.6	433.8	414.7	389.1	363.5	336.5	311.7	290.9	274.6
45°	523.6	507.5	488.1	463.9	433.0	397.2	363.8	331.1	302.1	279.1	261.6
47.5°	586.6	562.1	530.3	489.5	445.1	399.5	359.3	320.4	287.2	262.2	242.8
50°	661.4	622.9	570.5	510.6	451.3	396.1	348.0	304.4	266.1	239.4	216.3
52.5°	746.9	683.9	606.8	525.8	451.0	384.9	328.9	280.2	238.6	208.7	186.8
55°	847.4	753.7	644.2	537.1	443.1	364.0	299.6	246.2	204.5	177.0	156.7
57.5°	994.5	866.8	709.5	554.5	427.3	332.0	259.9	205.4	168.8	142.6	125.5
60°	1263.5	1055.6	827.1	589.7	403.1	285.0	213.5	161.8	131.1	110.0	98.5
62.5°	1466.0	1201.6	890.7	581.8	354.5	227.0	158.4	117.9	96.5	82.1	74.8
65°	1437.0	1156.3	822.9	501.0	278.0	160.1	105.2	80.2	66.4	59.6	55.4
66°	1371.5	1097.2	764.1	451.0	240.3	133.1	86.6	67.2	57.1	52.3	49.5
67.5°	1247.1	987.5	658.9	369.7	184.6	96.5	65.3	53.2	46.4	44.5	42.5
70°	1036.7	787.4	462.5	215.2	94.2	53.7	41.4	37.1	35.4	35.2	34.6
72.5°	794.5	557.3	272.3	101.8	49.0	35.7	32.1	30.7	30.1	30.1	30.4
75°	487.0	313.1	120.4	49.8	34.3	30.1	28.4	27.9	27.6	27.9	27.6
77.5°	162.6	99.6	51.5	37.7	31.2	27.9	26.7	26.2	26.2	26.2	26.2
80°	49.8	43.3	39.4	34.9	29.5	26.4	24.8	24.5	24.8	25.0	24.2
82.5°	37.4	35.4	33.2	30.9	26.7	23.6	23.1	23.1	23.1	22.2	21.1
85°	27.6	27.3	22.5	21.1	19.7	19.7	19.7	19.7	18.8	17.4	16.3
87.5°	5.1	4.8	5.1	5.3	7.9	8.4	8.4	9.0	9.8	9.3	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



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CATALOG NUMBER: TLM-E01-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	280.5	280.5	280.5	280.5	280.5
2.5°	281.6	281.3	282.2	281.6	281.9
5°	284.1	283.9	284.4	283.9	284.7
7.5°	283.3	282.7	282.5	282.7	283.0
10°	277.4	276.8	276.5	276.3	276.5
12.5°	272.3	271.2	271.2	270.6	270.9
15°	268.7	267.8	267.5	267.0	267.3
17.5°	267.0	265.6	265.0	264.5	264.5
20°	265.9	264.2	263.3	262.8	262.5
22.5°	265.9	263.3	262.2	261.6	261.4
25°	267.0	263.9	262.2	261.4	261.1
27.5°	269.2	265.3	263.3	262.2	262.2
30°	273.2	268.1	265.3	263.9	263.6
32.5°	277.1	270.4	266.4	264.7	264.2
35°	279.1	270.4	265.6	262.8	262.2
37.5°	276.8	266.7	260.8	256.6	255.7
40°	269.8	259.1	252.6	248.7	248.1
42.5°	260.5	250.1	242.5	239.7	238.8
45°	247.9	235.5	227.9	223.9	224.2
47.5°	226.2	213.5	206.8	203.1	203.7
50°	200.6	188.2	182.3	178.4	179.2
52.5°	172.5	161.2	155.6	153.6	153.0
55°	142.9	134.2	130.3	128.0	127.2
57.5°	115.9	109.7	106.9	104.1	104.4
60°	91.4	88.3	87.5	84.4	84.1
62.5°	72.0	70.1	69.2	67.0	67.2
65°	54.6	54.0	54.6	53.2	53.7
66°	49.2	49.5	49.5	48.7	49.2
67.5°	42.5	43.0	43.9	43.0	43.6
70°	35.2	35.7	36.3	36.3	36.3
72.5°	30.7	31.2	31.5	31.5	31.5
75°	28.1	28.4	28.7	28.1	28.1
77.5°	26.4	26.4	25.9	25.6	25.3
80°	23.9	23.6	22.8	22.2	22.2
82.5°	20.0	19.4	18.8	18.0	18.0
85°	15.2	14.6	14.1	12.9	12.4
87.5°	7.9	8.2	7.9	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)