

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: P154533

Luminaire Tested: **TLM-F01-LED-E1-T2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P154533  
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-F01-LED-E1-T2-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

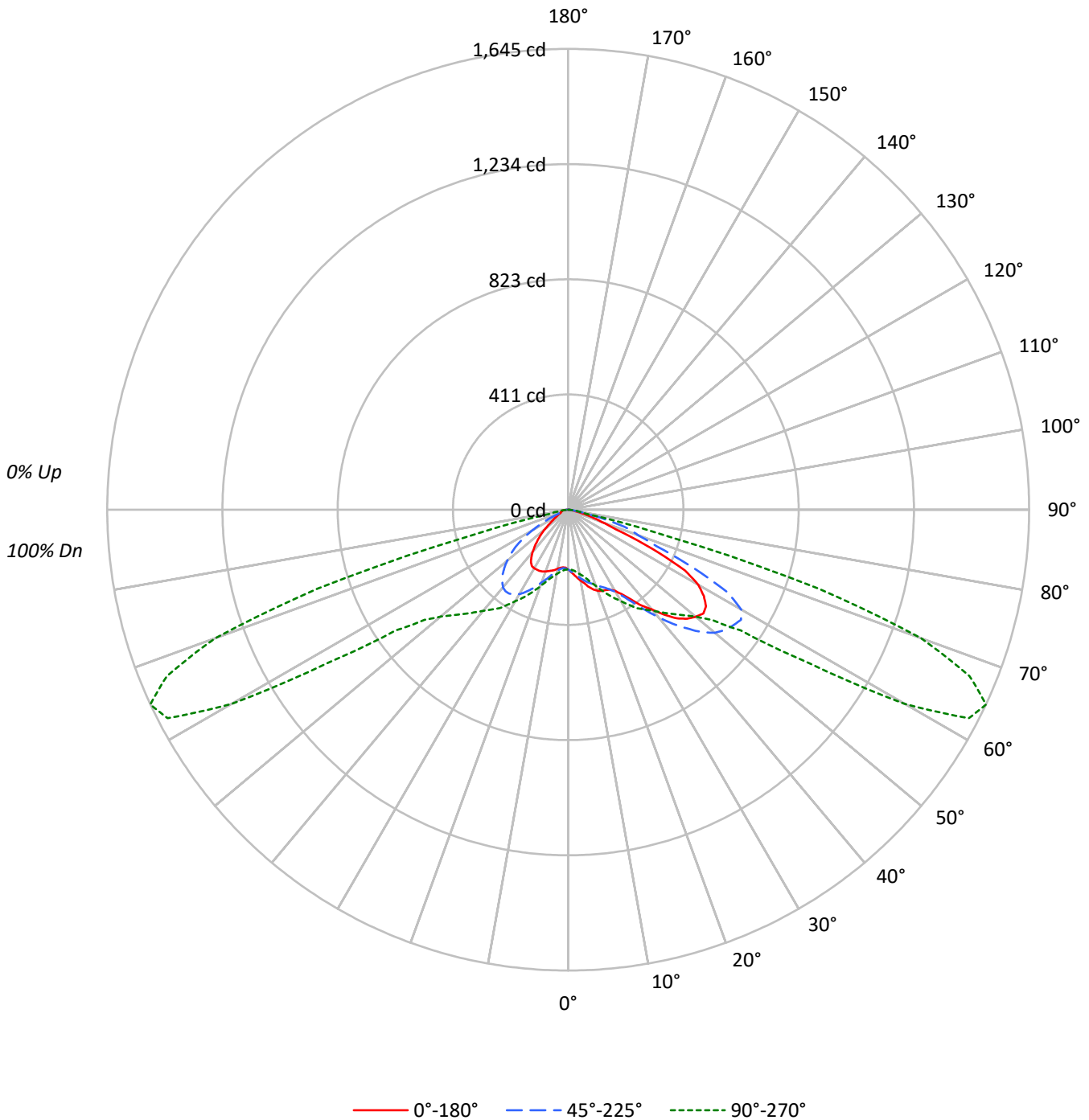
Lumens per Lamp: N/A  
Luminaire Lumens: 2134.7 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.9  
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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### 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°	13512	13512	13512
5°	14777	13843	13138
10°	16530	14974	13720
15°	18728	16729	14749
20°	20767	19594	15808
25°	22119	23285	16844
30°	24420	27527	17657
35°	30230	33214	17894
40°	38377	38947	16300
45°	49142	47127	13745
50°	58541	58383	10727
55°	66278	82991	7639
60°	67851	175313	6002
65°	49890	246486	5049
70°	23696	247996	4980
75°	12892	92106	6092
80°	6089	14731	7803
85°	2833	9081	9081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.4	1.0
10°-20°	73.4	3.4
20°-30°	144.2	6.8
30°-40°	239.6	11.2
40°-50°	352.1	16.5
50°-60°	487.5	22.8
60°-70°	581.9	27.3
70°-80°	205.8	9.6
80°-90°	28.8	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°	239.0	11.2
0°-40°	478.6	22.4
0°-60°	1318.3	61.8
0°-90°	2134.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	213	213	213	213	213	
5°	232	228	218	210	207	23
15°	286	268	255	245	225	81
25°	317	307	333	313	241	148
35°	391	404	430	366	232	250
45°	549	599	526	332	154	420
55°	600	720	752	227	69	526
65°	333	496	1645	70	34	325
75°	53	149	376	28	25	65
85°	4	8	12	21	12	6
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°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	222.7	223.0	222.5	222.3	221.6	220.4	219.5	218.5	218.5	218.5	217.8
5°	232.5	232.9	232.0	231.3	229.2	228.1	226.4	225.3	224.8	224.6	223.9
7.5°	244.8	244.1	242.7	242.2	240.6	238.1	235.0	232.7	232.7	232.5	232.7
10°	257.1	255.2	254.5	253.8	251.3	248.0	244.6	242.0	241.8	241.5	240.8
12.5°	269.4	268.7	268.0	265.5	262.9	257.8	253.8	251.3	251.1	251.3	250.4
15°	285.7	284.0	283.3	278.9	273.4	267.8	262.9	260.6	259.9	260.1	259.4
17.5°	298.2	298.2	296.6	291.7	284.5	276.8	271.7	270.3	270.1	270.1	270.3
20°	308.2	308.0	306.3	302.4	293.8	286.1	283.6	283.1	282.9	282.9	283.6
22.5°	313.8	313.3	312.6	308.2	301.5	296.3	296.6	298.0	298.4	298.9	299.8
25°	316.6	315.9	315.6	312.6	307.7	307.0	311.2	314.9	315.9	316.8	317.9
27.5°	321.2	320.0	320.5	319.3	318.2	320.3	328.9	332.8	333.5	334.7	335.4
30°	334.0	333.5	335.4	335.8	336.8	339.8	347.7	351.4	353.0	353.0	356.3
32.5°	358.4	358.6	359.1	363.9	365.6	367.6	371.8	374.8	375.1	375.3	378.3
35°	391.1	392.5	396.4	400.6	404.6	404.3	401.8	403.4	402.2	403.6	403.9
37.5°	432.4	430.6	436.4	445.9	451.9	450.3	438.9	431.5	433.6	432.7	432.0
40°	464.3	466.3	477.5	490.0	494.7	499.8	484.9	472.2	470.3	466.8	464.7
42.5°	508.2	508.4	517.4	526.7	540.2	551.4	541.8	523.5	517.9	513.7	504.7
45°	548.8	548.1	555.5	566.9	582.9	599.0	602.4	582.5	580.4	572.9	561.1
47.5°	576.0	575.0	580.1	595.0	621.0	647.3	661.7	655.6	651.7	648.7	630.1
50°	594.3	592.5	598.3	614.1	643.1	683.5	721.1	726.2	724.6	724.6	712.8
52.5°	608.0	608.0	612.2	625.0	654.5	704.9	772.2	798.0	800.1	802.4	801.7
55°	600.4	601.5	612.0	630.5	661.7	719.7	814.5	870.9	882.5	892.3	903.4
57.5°	574.1	578.1	592.0	622.4	663.5	730.9	861.4	973.1	1005.9	1034.2	1078.3
60°	535.8	540.9	561.1	599.9	649.8	712.8	877.9	1059.5	1111.5	1173.3	1288.5
62.5°	470.1	475.2	494.9	533.7	576.4	643.3	809.6	1072.3	1155.4	1243.0	1417.2
65°	333.0	324.9	347.7	382.5	431.5	496.3	654.2	986.6	1106.2	1224.9	1439.9
67.5°	185.6	184.9	198.8	224.8	271.7	341.4	450.8	756.7	866.7	1001.2	1265.3
70°	128.0	129.4	138.2	166.3	205.1	265.2	321.2	475.2	554.4	645.6	905.3
72.5°	89.9	92.9	97.8	114.5	154.2	223.4	328.2	284.0	323.5	385.8	544.4
75°	52.7	54.8	58.3	66.4	87.8	149.3	339.8	249.7	249.7	264.3	329.3
77.5°	32.5	32.5	34.6	37.9	46.7	73.2	242.0	280.6	272.7	264.3	265.0
80°	16.7	17.9	20.9	22.5	26.0	33.4	108.7	261.7	287.1	304.0	292.2
82.5°	7.7	8.6	12.8	13.7	15.1	17.7	37.4	148.9	199.5	262.7	328.2
85°	3.9	3.9	6.7	8.4	9.1	8.1	13.7	60.2	91.0	138.9	217.4
87.5°	0.7	0.7	1.2	1.4	2.1	1.9	2.3	3.5	5.8	6.3	6.5
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	217.6	217.8	217.6	217.4	216.9	216.9	216.9	216.7	216.7	216.7	216.5
5°	223.9	223.0	223.2	222.7	222.5	222.3	222.5	222.0	221.6	221.8	221.6
7.5°	231.8	231.3	230.4	230.4	230.2	229.7	229.7	229.0	228.8	228.3	228.1
10°	240.6	239.4	239.9	239.4	239.7	238.7	238.3	237.8	237.4	237.4	237.6
12.5°	249.7	249.4	248.7	248.3	248.3	247.6	247.8	247.6	246.9	246.6	245.9
15°	259.0	259.0	258.3	258.5	258.3	257.8	257.3	257.3	256.9	256.4	256.6
17.5°	269.9	269.9	269.9	269.9	270.1	269.4	269.6	269.2	268.7	269.6	269.6
20°	284.0	285.0	285.0	284.7	285.9	285.2	285.0	286.1	285.0	286.6	286.4
22.5°	300.3	301.2	301.2	302.2	302.4	303.1	303.5	303.1	304.0	304.9	304.9
25°	318.4	319.3	320.0	321.4	322.1	321.7	321.9	323.1	323.5	324.4	325.4
27.5°	337.5	337.7	338.6	340.2	341.4	341.9	342.1	344.0	344.2	344.7	345.6
30°	356.0	358.4	357.9	360.0	360.7	361.4	362.8	363.5	365.1	366.0	366.0
32.5°	377.9	377.4	379.3	380.9	382.0	383.2	384.4	385.3	386.2	386.7	389.0
35°	405.0	406.0	406.0	406.2	409.0	409.2	410.1	412.2	412.9	414.3	415.3
37.5°	432.0	430.4	430.1	430.1	429.2	429.9	430.1	430.4	431.3	431.5	432.4
40°	462.2	460.1	458.2	457.1	455.2	452.6	452.2	451.0	451.7	451.5	451.7
42.5°	503.5	497.7	493.3	490.0	486.3	483.5	481.4	478.4	476.3	473.8	473.3
45°	556.2	545.3	537.9	532.5	527.2	519.5	515.1	510.5	506.3	502.1	498.6
47.5°	625.4	613.8	602.0	592.2	583.9	571.6	559.0	552.0	543.9	536.7	531.6
50°	707.0	693.0	687.4	673.7	663.3	644.7	629.2	617.8	601.5	590.6	581.1
52.5°	790.3	786.8	783.8	772.2	759.9	749.2	735.5	715.5	699.1	686.5	667.0
55°	903.9	905.5	904.4	898.1	893.7	883.5	877.9	860.5	853.0	834.9	814.5
57.5°	1095.0	1108.0	1124.5	1131.0	1139.9	1131.5	1141.3	1153.1	1123.6	1133.8	1115.5
60°	1339.1	1398.8	1434.3	1478.0	1506.6	1546.5	1553.7	1564.2	1561.2	1567.0	1578.8
62.5°	1488.2	1559.1	1627.1	1676.6	1729.5	1758.8	1794.1	1818.7	1844.3	1861.4	1856.6
65°	1532.1	1605.0	1666.8	1720.9	1768.3	1804.1	1836.8	1867.7	1891.2	1907.7	1917.4
67.5°	1370.9	1466.2	1531.2	1594.6	1655.7	1693.3	1720.7	1750.7	1785.0	1813.6	1819.2
70°	1031.6	1174.5	1266.7	1342.6	1414.4	1465.0	1503.3	1531.2	1557.9	1578.3	1600.6
72.5°	645.2	770.1	875.6	974.0	1050.2	1119.9	1152.2	1213.9	1205.8	1221.4	1238.1
75°	386.7	447.5	505.6	575.0	615.0	673.0	683.5	693.7	688.4	671.0	684.0
77.5°	268.7	278.7	278.2	274.3	270.1	259.9	246.6	239.4	234.6	227.6	230.4
80°	270.3	248.7	215.8	181.4	149.8	128.9	120.5	120.5	129.1	141.4	153.7
82.5°	323.1	300.1	267.5	223.9	177.4	144.5	122.4	113.6	115.2	127.7	143.5
85°	217.8	223.0	195.6	178.8	141.7	110.3	92.4	75.0	66.4	68.5	77.6
87.5°	7.9	9.5	3.5	4.6	3.3	2.8	2.8	3.0	2.1	2.6	2.3
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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**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	216.2	216.0	216.0	215.5	215.5	215.3	215.3	215.1	214.8	214.8	214.6
5°	221.3	221.1	220.6	220.4	219.9	219.9	219.7	219.2	219.2	218.8	218.5
7.5°	228.5	228.1	227.6	227.4	227.1	226.4	226.4	226.0	226.0	225.5	225.3
10°	237.1	236.7	236.2	236.4	235.7	235.5	235.0	235.0	234.3	234.1	234.1
12.5°	246.4	246.2	246.2	245.5	245.3	245.0	244.1	244.1	244.1	243.6	243.9
15°	256.4	256.6	255.9	256.6	256.4	255.7	255.7	255.7	254.8	255.9	255.0
17.5°	269.9	270.6	270.1	270.3	269.9	269.9	270.1	269.9	270.3	270.3	271.7
20°	286.6	286.8	288.0	287.5	287.5	287.3	287.8	288.0	288.9	288.4	289.4
22.5°	304.9	306.1	306.3	307.3	307.3	307.0	307.5	308.4	308.9	309.6	309.4
25°	325.8	326.5	327.5	326.3	328.2	328.2	328.6	329.8	330.0	330.0	331.6
27.5°	345.3	347.2	347.4	348.6	347.9	348.4	350.0	350.7	351.6	351.6	352.1
30°	367.4	368.1	368.6	370.0	369.7	370.0	370.2	371.4	371.4	372.5	373.7
32.5°	390.2	390.6	391.1	392.5	393.0	393.9	393.4	394.4	395.5	395.7	396.4
35°	417.3	417.8	418.3	420.4	420.6	422.2	422.7	422.2	424.1	422.9	424.1
37.5°	433.1	435.2	435.7	437.1	436.6	437.8	438.5	439.4	439.9	440.8	442.7
40°	452.4	453.1	454.5	455.2	456.1	456.4	457.3	458.0	458.7	460.8	462.9
42.5°	472.2	473.1	473.8	474.7	475.9	476.8	477.5	479.6	480.1	481.4	485.4
45°	496.1	495.6	495.8	496.1	496.5	497.7	499.8	501.9	503.3	506.5	509.8
47.5°	525.8	522.8	521.6	519.8	520.2	522.8	523.2	526.7	529.5	532.5	536.5
50°	570.9	562.7	557.9	553.0	552.5	553.9	555.8	559.5	562.7	566.7	572.3
52.5°	646.6	631.0	621.3	607.8	604.1	603.4	602.0	604.1	605.0	610.3	620.8
55°	799.9	771.1	752.5	731.6	712.1	706.3	695.1	697.4	695.1	698.4	713.9
57.5°	1119.9	1096.9	1078.8	1052.1	1018.6	983.1	974.3	937.8	945.0	965.9	952.4
60°	1584.6	1576.2	1563.2	1550.5	1504.7	1478.9	1436.9	1432.3	1402.8	1403.0	1383.7
62.5°	1844.7	1855.4	1847.5	1843.8	1841.2	1833.1	1812.2	1787.1	1749.5	1722.3	1682.4
65°	1919.0	1910.0	1901.4	1900.2	1899.5	1912.8	1915.8	1898.1	1864.0	1821.7	1775.7
67.5°	1832.4	1827.3	1827.8	1818.0	1824.1	1847.0	1863.1	1858.2	1826.8	1775.7	1717.2
70°	1626.2	1616.2	1626.4	1639.2	1648.2	1661.5	1677.5	1681.5	1652.9	1600.4	1540.7
72.5°	1217.7	1219.3	1229.0	1232.5	1269.0	1265.3	1279.7	1232.8	1212.1	1162.2	1131.5
75°	640.8	630.3	657.5	599.9	576.2	592.7	546.5	502.1	511.4	519.1	463.8
77.5°	226.4	211.8	187.0	177.0	147.2	124.7	102.0	92.0	86.6	83.8	80.4
80°	162.6	167.2	162.1	150.0	127.5	102.2	80.6	63.6	54.6	49.7	46.4
82.5°	164.4	182.8	190.9	187.4	167.0	126.3	83.4	53.2	39.5	33.0	30.7
85°	88.3	96.6	92.9	78.3	70.4	42.0	28.8	19.3	16.3	14.9	13.7
87.5°	3.5	2.8	2.3	2.3	2.6	2.8	2.3	2.6	2.3	2.3	2.3
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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**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	214.1	214.1	214.1	213.9	213.4	212.3	211.1	210.2	209.5	208.8	207.9
5°	218.3	217.8	217.8	217.8	216.0	214.1	212.5	210.9	209.5	208.3	207.4
7.5°	225.3	225.0	224.1	223.9	222.5	219.5	217.6	214.8	213.2	211.6	211.1
10°	233.6	233.4	233.2	232.9	231.1	228.1	225.7	223.2	220.9	218.5	216.2
12.5°	243.4	243.2	242.9	242.2	241.5	239.9	237.4	234.6	231.8	226.9	224.3
15°	255.5	255.9	255.5	255.2	254.8	255.0	253.4	249.4	245.0	238.7	233.4
17.5°	271.5	271.0	270.8	271.7	271.5	272.7	272.2	267.1	260.3	250.4	241.1
20°	289.1	289.1	290.1	290.8	292.9	295.9	294.5	288.2	275.9	262.0	249.9
22.5°	310.3	310.7	311.7	311.2	314.5	319.3	319.8	311.0	295.0	275.7	258.7
25°	332.3	332.8	331.9	333.3	338.6	345.6	347.0	334.4	313.3	288.2	266.2
27.5°	353.2	353.7	353.7	355.6	360.7	372.5	373.9	360.0	331.9	299.1	271.5
30°	373.7	375.5	376.0	376.5	384.1	400.6	403.6	383.4	348.1	307.3	275.2
32.5°	399.5	400.2	401.1	402.2	411.1	431.3	431.3	403.6	358.6	312.4	275.9
35°	427.1	427.3	429.4	429.7	442.2	462.4	458.5	420.4	366.0	311.2	270.8
37.5°	443.8	444.7	446.8	449.6	462.9	491.4	482.4	434.8	367.4	303.5	259.2
40°	464.5	466.3	468.4	471.2	491.0	520.9	502.6	443.8	361.6	288.4	241.8
42.5°	486.8	489.3	492.6	497.7	521.2	546.9	517.9	445.2	348.4	271.5	221.1
45°	511.9	516.5	520.2	526.3	552.7	569.5	527.2	437.1	331.6	249.2	199.0
47.5°	540.9	544.6	551.1	557.6	584.1	584.8	528.1	421.3	308.9	226.9	175.6
50°	576.7	579.0	588.7	592.7	617.5	600.8	521.4	399.9	285.0	201.8	149.6
52.5°	624.3	627.5	640.1	646.1	663.8	622.6	511.9	376.7	257.6	173.7	122.9
55°	718.3	732.5	741.3	751.8	763.2	672.1	507.7	351.9	226.7	141.2	97.3
57.5°	982.4	977.8	997.3	1020.9	1020.7	785.2	532.8	330.5	190.2	108.0	74.8
60°	1375.8	1380.2	1370.2	1384.4	1339.4	925.5	567.1	308.0	149.1	80.4	57.1
62.5°	1668.2	1642.7	1628.5	1611.8	1512.6	940.8	542.1	261.7	108.5	56.4	43.9
65°	1737.4	1707.5	1677.0	1645.2	1495.7	848.2	444.7	192.1	70.1	38.8	34.8
67.5°	1669.1	1621.1	1582.3	1549.5	1370.5	703.0	325.1	118.0	40.2	31.4	29.7
70°	1492.2	1439.0	1376.3	1339.6	1154.0	518.1	208.3	63.6	30.9	27.9	27.2
72.5°	1092.2	1048.6	980.1	938.0	828.7	314.9	116.4	35.8	28.8	26.7	25.8
75°	425.5	402.7	374.1	376.5	336.1	139.3	52.7	30.9	28.1	26.2	25.3
77.5°	73.2	71.3	66.0	66.0	75.0	50.9	35.1	31.1	27.9	25.8	24.2
80°	43.9	43.0	40.9	40.4	39.0	35.8	33.7	31.6	27.4	24.4	22.3
82.5°	28.8	27.6	26.9	26.7	29.0	31.4	31.6	31.4	26.0	21.1	18.1
85°	12.3	12.3	12.3	12.5	16.7	25.3	26.0	27.9	21.4	16.5	13.0
87.5°	2.1	2.6	2.6	2.8	3.0	5.6	7.0	9.1	7.2	7.0	6.3
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: P154533

CATALOG NUMBER: TLM-F01-LED-E1-T2-8030

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	213.4	213.4	213.4
2.5°	207.6	207.2	207.2
5°	206.9	206.5	206.7
7.5°	209.7	208.8	209.0
10°	214.8	213.9	213.4
12.5°	221.3	220.2	220.2
15°	228.1	225.3	225.0
17.5°	233.6	230.2	229.7
20°	239.9	235.3	234.6
22.5°	245.7	239.4	238.5
25°	249.9	242.2	241.1
27.5°	251.8	242.7	241.8
30°	253.1	242.9	241.5
32.5°	251.8	240.8	239.7
35°	244.1	232.2	231.5
37.5°	230.9	217.6	216.7
40°	213.4	199.5	197.2
42.5°	191.1	178.1	175.6
45°	169.5	154.7	153.5
47.5°	146.3	132.1	132.8
50°	121.9	109.2	108.9
52.5°	98.7	87.6	86.9
55°	77.8	69.9	69.2
57.5°	61.5	57.4	56.7
60°	50.2	48.1	47.4
62.5°	40.4	39.7	39.5
65°	33.7	33.7	33.7
67.5°	29.3	29.5	29.5
70°	26.9	27.2	26.9
72.5°	26.0	26.7	26.7
75°	25.3	25.8	24.9
77.5°	24.9	25.1	23.5
80°	24.6	24.4	21.4
82.5°	21.4	20.7	18.1
85°	19.5	14.9	12.5
87.5°	10.0	7.0	5.3
90°	0.0	0.0	0.0

(END OF REPORT)