

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: P154535

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P154535  
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  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

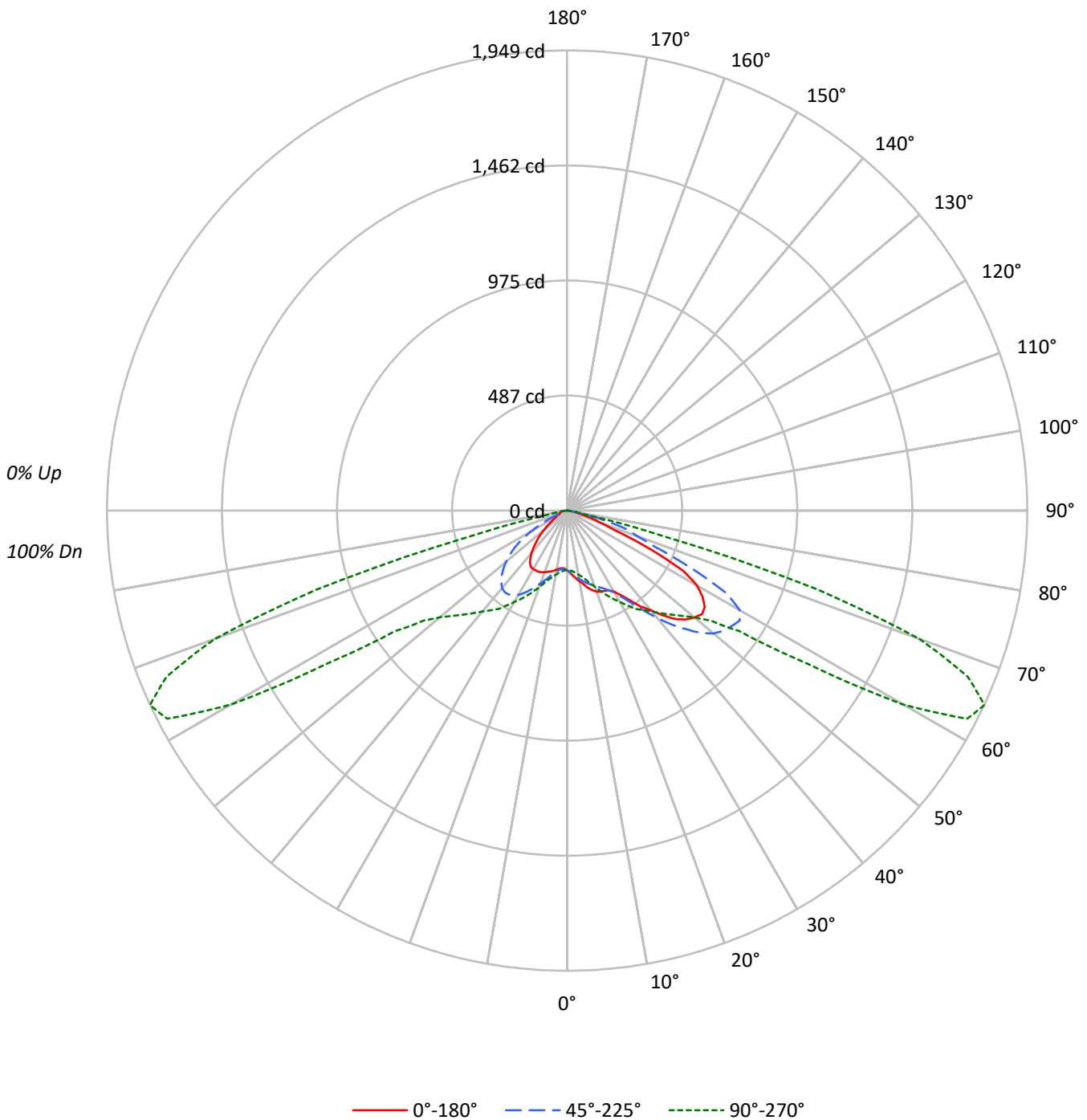
Lumens per Lamp: N/A  
Luminaire Lumens: 2529.3 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	16013	16013	16013
5°	17511	16405	15566
10°	19584	17745	16260
15°	22189	19823	17476
20°	24607	23213	18725
25°	26206	27589	19953
30°	28931	32615	20925
35°	35819	39351	21202
40°	45468	46146	19308
45°	58221	55831	16288
50°	69367	69170	12717
55°	78520	98324	9052
60°	80387	207718	7104
65°	59119	292046	5978
70°	28065	293834	5906
75°	15290	109133	7192
80°	7220	17466	9225
85°	3414	10825	10825



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	1.0
10°-20°	87.0	3.4
20°-30°	170.9	6.8
30°-40°	283.9	11.2
40°-50°	417.2	16.5
50°-60°	577.6	22.8
60°-70°	689.4	27.3
70°-80°	243.8	9.6
80°-90°	34.1	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°	283.2	11.2
0°-40°	567.1	22.4
0°-60°	1562.0	61.8
0°-90°	2529.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	253	253	253	253	253	
5°	276	270	258	248	245	27
15°	338	317	302	290	267	96
25°	375	364	395	371	286	175
35°	463	479	509	434	274	296
45°	650	710	624	393	182	498
55°	711	853	891	269	82	623
65°	395	588	1949	83	40	385
75°	62	177	446	33	29	77
85°	5	10	15	25	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°	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9
2.5°	263.9	264.2	263.6	263.3	262.5	261.1	260.0	258.9	258.9	258.9	258.1
5°	275.5	276.0	274.9	274.1	271.6	270.2	268.3	266.9	266.4	266.1	265.3
7.5°	290.0	289.2	287.6	287.0	285.1	282.1	278.5	275.7	275.7	275.5	275.7
10°	304.6	302.4	301.6	300.8	297.7	293.9	289.8	286.7	286.5	286.2	285.4
12.5°	319.2	318.4	317.6	314.5	311.5	305.4	300.8	297.7	297.5	297.7	296.6
15°	338.5	336.5	335.7	330.5	323.9	317.3	311.5	308.7	307.9	308.2	307.4
17.5°	353.3	353.3	351.4	345.6	337.1	328.0	322.0	320.3	320.0	320.0	320.3
20°	365.2	364.9	363.0	358.3	348.1	339.0	336.0	335.4	335.2	335.2	336.0
22.5°	371.8	371.2	370.4	365.2	357.2	351.1	351.4	353.0	353.6	354.2	355.3
25°	375.1	374.2	374.0	370.4	364.6	363.8	368.7	373.1	374.2	375.3	376.7
27.5°	380.6	379.2	379.7	378.4	377.0	379.5	389.6	394.3	395.2	396.5	397.4
30°	395.7	395.2	397.4	397.9	399.0	402.6	411.9	416.3	418.3	418.3	422.1
32.5°	424.6	424.9	425.4	431.2	433.1	435.6	440.6	444.1	444.4	444.7	448.3
35°	463.4	465.0	469.7	474.7	479.4	479.1	476.1	478.0	476.6	478.3	478.5
37.5°	512.4	510.2	517.1	528.3	535.5	533.6	520.1	511.3	513.8	512.7	511.8
40°	550.1	552.6	565.8	580.6	586.1	592.2	574.6	559.4	557.2	553.1	550.6
42.5°	602.1	602.4	613.1	624.1	640.1	653.3	642.0	620.2	613.6	608.7	598.0
45°	650.2	649.4	658.2	671.7	690.7	709.7	713.8	690.1	687.7	678.9	664.8
47.5°	682.4	681.3	687.4	705.0	735.8	766.9	784.0	776.8	772.1	768.6	746.5
50°	704.2	702.0	708.9	727.6	762.0	809.8	854.4	860.5	858.5	858.5	844.5
52.5°	720.4	720.4	725.4	740.5	775.4	835.2	915.0	945.5	948.0	950.7	949.9
55°	711.3	712.7	725.1	747.1	784.0	852.8	965.0	1031.9	1045.7	1057.2	1070.4
57.5°	680.2	684.9	701.4	737.5	786.2	866.0	1020.6	1153.0	1191.8	1225.4	1277.6
60°	634.8	640.9	664.8	710.8	769.9	844.5	1040.2	1255.3	1317.0	1390.2	1526.7
62.5°	557.0	563.0	586.4	632.4	683.0	762.2	959.3	1270.5	1369.0	1472.7	1679.1
65°	394.6	385.0	411.9	453.2	511.3	588.0	775.2	1168.9	1310.7	1451.3	1706.1
67.5°	219.9	219.0	235.5	266.4	322.0	404.5	534.1	896.5	1027.0	1186.3	1499.2
70°	151.6	153.3	163.7	197.0	243.0	314.2	380.6	563.0	656.8	765.0	1072.6
72.5°	106.5	110.1	115.8	135.7	182.7	264.7	388.8	336.5	383.3	457.1	645.0
75°	62.5	64.9	69.1	78.7	104.0	176.9	402.6	295.8	295.8	313.1	390.2
77.5°	38.5	38.5	41.0	44.9	55.3	86.7	286.7	332.4	323.1	313.1	314.0
80°	19.8	21.2	24.8	26.7	30.8	39.6	128.8	310.1	340.1	360.2	346.2
82.5°	9.1	10.2	15.1	16.2	17.9	20.9	44.3	176.4	236.4	311.2	388.8
85°	4.7	4.7	8.0	9.9	10.7	9.6	16.2	71.3	107.9	164.6	257.6
87.5°	0.8	0.8	1.4	1.7	2.5	2.2	2.8	4.1	6.9	7.4	7.7
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°	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9
2.5°	257.8	258.1	257.8	257.6	257.0	257.0	257.0	256.7	256.7	256.7	256.5
5°	265.3	264.2	264.4	263.9	263.6	263.3	263.6	263.1	262.5	262.8	262.5
7.5°	274.6	274.1	273.0	273.0	272.7	272.1	272.1	271.3	271.0	270.5	270.2
10°	285.1	283.7	284.3	283.7	284.0	282.9	282.3	281.8	281.2	281.2	281.5
12.5°	295.8	295.5	294.7	294.2	294.2	293.3	293.6	293.3	292.5	292.2	291.4
15°	306.8	306.8	306.0	306.3	306.0	305.4	304.9	304.9	304.3	303.8	304.1
17.5°	319.8	319.8	319.8	319.8	320.0	319.2	319.5	318.9	318.4	319.5	319.5
20°	336.5	337.6	337.6	337.4	338.7	337.9	337.6	339.0	337.6	339.6	339.3
22.5°	355.8	356.9	356.9	358.0	358.3	359.1	359.7	359.1	360.2	361.3	361.3
25°	377.3	378.4	379.2	380.8	381.7	381.1	381.4	382.8	383.3	384.4	385.5
27.5°	399.8	400.1	401.2	403.1	404.5	405.1	405.3	407.5	407.8	408.4	409.5
30°	421.8	424.6	424.0	426.5	427.3	428.2	429.8	430.6	432.6	433.7	433.7
32.5°	447.7	447.2	449.4	451.3	452.7	454.0	455.4	456.5	457.6	458.2	460.9
35°	479.9	481.0	481.0	481.3	484.6	484.9	486.0	488.4	489.3	490.9	492.0
37.5°	511.8	509.9	509.6	509.6	508.5	509.3	509.6	509.9	511.0	511.3	512.4
40°	547.6	545.1	542.9	541.5	539.3	536.3	535.8	534.4	535.2	534.9	535.2
42.5°	596.6	589.7	584.5	580.6	576.2	572.9	570.4	566.9	564.4	561.4	560.8
45°	659.0	646.1	637.3	631.0	624.6	615.6	610.3	604.8	599.9	594.9	590.8
47.5°	741.0	727.3	713.3	701.7	691.8	677.2	662.3	654.1	644.5	635.9	629.9
50°	837.6	821.1	814.5	798.3	785.9	763.9	745.4	732.0	712.7	699.8	688.5
52.5°	936.4	932.3	928.7	915.0	900.4	887.7	871.5	847.8	828.3	813.4	790.3
55°	1071.0	1072.9	1071.5	1064.1	1058.9	1046.8	1040.2	1019.5	1010.7	989.3	965.0
57.5°	1297.5	1312.9	1332.4	1340.1	1350.6	1340.7	1352.2	1366.2	1331.3	1343.4	1321.7
60°	1586.7	1657.4	1699.5	1751.2	1785.1	1832.4	1840.9	1853.3	1849.7	1856.6	1870.6
62.5°	1763.3	1847.2	1927.9	1986.5	2049.2	2083.9	2125.7	2154.9	2185.2	2205.5	2199.7
65°	1815.3	1901.7	1974.9	2039.0	2095.2	2137.6	2176.4	2213.0	2240.7	2260.3	2271.8
67.5°	1624.4	1737.2	1814.2	1889.4	1961.7	2006.3	2038.8	2074.3	2115.0	2148.8	2155.4
70°	1222.3	1391.6	1500.8	1590.8	1675.8	1735.8	1781.2	1814.2	1845.9	1870.1	1896.5
72.5°	764.4	912.5	1037.4	1154.1	1244.3	1326.9	1365.1	1438.3	1428.7	1447.1	1467.0
75°	458.2	530.3	599.1	681.3	728.7	797.5	809.8	821.9	815.6	795.0	810.4
77.5°	318.4	330.2	329.7	325.0	320.0	307.9	292.2	283.7	277.9	269.7	273.0
80°	320.3	294.7	255.6	214.9	177.5	152.7	142.8	142.8	153.0	167.6	182.2
82.5°	382.8	355.5	317.0	265.3	210.2	171.2	145.0	134.6	136.5	151.3	170.1
85°	258.1	264.2	231.7	211.9	167.9	130.7	109.5	88.9	78.7	81.2	91.9
87.5°	9.4	11.3	4.1	5.5	3.9	3.3	3.3	3.6	2.5	3.0	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°	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9
2.5°	256.2	255.9	255.9	255.4	255.4	255.1	255.1	254.8	254.5	254.5	254.3
5°	262.2	262.0	261.4	261.1	260.6	260.6	260.3	259.8	259.8	259.2	258.9
7.5°	270.8	270.2	269.7	269.4	269.1	268.3	268.3	267.7	267.7	267.2	266.9
10°	281.0	280.4	279.9	280.1	279.3	279.0	278.5	278.5	277.7	277.4	277.4
12.5°	292.0	291.7	291.7	290.9	290.6	290.3	289.2	289.2	289.2	288.7	288.9
15°	303.8	304.1	303.2	304.1	303.8	303.0	303.0	303.0	301.9	303.2	302.1
17.5°	319.8	320.6	320.0	320.3	319.8	319.8	320.0	319.8	320.3	320.3	322.0
20°	339.6	339.8	341.2	340.7	340.7	340.4	340.9	341.2	342.3	341.8	342.9
22.5°	361.3	362.7	363.0	364.1	364.1	363.8	364.3	365.4	366.0	366.8	366.5
25°	386.1	386.9	388.0	386.6	388.8	388.8	389.4	390.7	391.0	391.0	392.9
27.5°	409.2	411.4	411.7	413.0	412.2	412.8	414.7	415.5	416.6	416.6	417.2
30°	435.3	436.2	436.7	438.4	438.1	438.4	438.6	440.0	440.0	441.4	442.8
32.5°	462.3	462.8	463.4	465.0	465.6	466.7	466.1	467.2	468.6	468.9	469.7
35°	494.5	495.0	495.6	498.1	498.3	500.3	500.8	500.3	502.5	501.1	502.5
37.5°	513.2	515.7	516.2	517.9	517.3	518.7	519.5	520.6	521.2	522.3	524.5
40°	536.0	536.9	538.5	539.3	540.4	540.7	541.8	542.6	543.5	545.9	548.4
42.5°	559.4	560.5	561.4	562.5	563.8	564.9	565.8	568.2	568.8	570.4	575.1
45°	587.8	587.2	587.5	587.8	588.3	589.7	592.2	594.7	596.3	600.2	604.0
47.5°	623.0	619.4	618.0	615.8	616.4	619.4	620.0	624.1	627.4	631.0	635.7
50°	676.4	666.7	661.0	655.2	654.6	656.3	658.5	662.9	666.7	671.4	678.0
52.5°	766.1	747.7	736.1	720.1	715.7	714.9	713.3	715.7	716.8	723.2	735.5
55°	947.7	913.6	891.6	866.8	843.7	836.8	823.6	826.4	823.6	827.5	845.9
57.5°	1326.9	1299.7	1278.2	1246.5	1206.9	1164.8	1154.4	1111.2	1119.7	1144.5	1128.5
60°	1877.5	1867.6	1852.2	1837.1	1782.9	1752.3	1702.5	1697.0	1662.1	1662.3	1639.5
62.5°	2185.7	2198.4	2189.0	2184.6	2181.6	2172.0	2147.2	2117.5	2072.9	2040.7	1993.4
65°	2273.8	2263.0	2252.9	2251.5	2250.7	2266.3	2269.9	2249.0	2208.6	2158.5	2104.0
67.5°	2171.1	2165.1	2165.6	2154.1	2161.2	2188.5	2207.5	2201.7	2164.5	2104.0	2034.6
70°	1926.8	1914.9	1927.1	1942.2	1952.9	1968.6	1987.6	1992.3	1958.4	1896.2	1825.5
72.5°	1442.7	1444.7	1456.2	1460.4	1503.6	1499.2	1516.2	1460.6	1436.1	1377.0	1340.7
75°	759.2	746.8	779.0	710.8	682.7	702.2	647.5	594.9	605.9	615.0	549.5
77.5°	268.3	251.0	221.5	209.7	174.5	147.8	120.8	109.0	102.6	99.3	95.2
80°	192.6	198.1	192.1	177.8	151.1	121.1	95.5	75.4	64.7	58.9	55.0
82.5°	194.8	216.6	226.2	222.1	197.9	149.7	98.8	63.0	46.8	39.1	36.3
85°	104.6	114.5	110.1	92.7	83.4	49.8	34.1	22.8	19.3	17.6	16.2
87.5°	4.1	3.3	2.8	2.8	3.0	3.3	2.8	3.0	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





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

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9	252.9
2.5°	253.7	253.7	253.7	253.4	252.9	251.5	250.1	249.0	248.2	247.4	246.3
5°	258.7	258.1	258.1	258.1	255.9	253.7	251.8	249.9	248.2	246.8	245.7
7.5°	266.9	266.6	265.5	265.3	263.6	260.0	257.8	254.5	252.6	250.7	250.1
10°	276.8	276.6	276.3	276.0	273.8	270.2	267.5	264.4	261.7	258.9	256.2
12.5°	288.4	288.1	287.8	287.0	286.2	284.3	281.2	277.9	274.6	268.8	265.8
15°	302.7	303.2	302.7	302.4	301.9	302.1	300.2	295.5	290.3	282.9	276.6
17.5°	321.7	321.1	320.9	322.0	321.7	323.1	322.5	316.5	308.5	296.6	285.6
20°	342.6	342.6	343.7	344.5	347.0	350.6	348.9	341.5	326.9	310.4	296.1
22.5°	367.6	368.2	369.3	368.7	372.6	378.4	378.9	368.5	349.5	326.6	306.5
25°	393.8	394.3	393.2	394.9	401.2	409.5	411.1	396.3	371.2	341.5	315.4
27.5°	418.5	419.1	419.1	421.3	427.3	441.4	443.0	426.5	393.2	354.4	321.7
30°	442.8	445.0	445.5	446.1	455.1	474.7	478.3	454.3	412.5	364.1	326.1
32.5°	473.3	474.1	475.2	476.6	487.1	511.0	511.0	478.3	424.9	370.1	326.9
35°	506.0	506.3	508.8	509.1	523.9	547.9	543.2	498.1	433.7	368.7	320.9
37.5°	525.9	527.0	529.4	532.7	548.4	582.3	571.5	515.1	435.3	359.7	307.1
40°	550.3	552.6	555.0	558.3	581.7	617.2	595.5	525.9	428.4	341.8	286.5
42.5°	576.8	579.8	583.6	589.7	617.5	648.0	613.6	527.5	412.8	321.7	262.0
45°	606.5	612.0	616.4	623.5	654.9	674.7	624.6	517.9	392.9	295.3	235.8
47.5°	640.9	645.3	653.0	660.7	692.1	692.9	625.7	499.2	366.0	268.8	208.0
50°	683.3	686.0	697.6	702.2	731.7	711.9	617.8	473.9	337.6	239.1	177.2
52.5°	739.7	743.5	758.4	765.5	786.5	737.7	606.5	446.3	305.2	205.8	145.6
55°	851.1	867.9	878.4	890.7	904.2	796.4	601.5	416.9	268.6	167.3	115.3
57.5°	1164.0	1158.5	1181.6	1209.7	1209.4	930.4	631.3	391.6	225.4	128.0	88.6
60°	1630.1	1635.4	1623.5	1640.3	1586.9	1096.6	672.0	364.9	176.7	95.2	67.7
62.5°	1976.6	1946.3	1929.5	1909.7	1792.2	1114.7	642.3	310.1	128.5	66.9	52.0
65°	2058.6	2023.1	1987.0	1949.3	1772.1	1004.9	527.0	227.6	83.1	46.0	41.3
67.5°	1977.7	1920.7	1874.8	1836.0	1623.8	833.0	385.2	139.8	47.6	37.1	35.2
70°	1768.0	1705.0	1630.7	1587.2	1367.3	613.9	246.8	75.4	36.6	33.0	32.2
72.5°	1294.1	1242.4	1161.2	1111.4	981.8	373.1	137.9	42.4	34.1	31.6	30.5
75°	504.1	477.2	443.3	446.1	398.2	165.1	62.5	36.6	33.3	31.1	30.0
77.5°	86.7	84.5	78.1	78.1	88.9	60.3	41.6	36.9	33.0	30.5	28.6
80°	52.0	50.9	48.4	47.9	46.2	42.4	39.9	37.4	32.5	28.9	26.4
82.5°	34.1	32.7	31.9	31.6	34.4	37.1	37.4	37.1	30.8	25.0	21.5
85°	14.6	14.6	14.6	14.9	19.8	30.0	30.8	33.0	25.3	19.5	15.4
87.5°	2.5	3.0	3.0	3.3	3.6	6.6	8.3	10.7	8.5	8.3	7.4
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: P154535

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

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	252.9	252.9	252.9
2.5°	246.0	245.5	245.5
5°	245.2	244.6	244.9
7.5°	248.5	247.4	247.7
10°	254.5	253.4	252.9
12.5°	262.2	260.9	260.9
15°	270.2	266.9	266.6
17.5°	276.8	272.7	272.1
20°	284.3	278.8	277.9
22.5°	291.1	283.7	282.6
25°	296.1	287.0	285.6
27.5°	298.3	287.6	286.5
30°	299.9	287.8	286.2
32.5°	298.3	285.4	284.0
35°	289.2	275.2	274.3
37.5°	273.5	257.8	256.7
40°	252.9	236.4	233.6
42.5°	226.5	211.1	208.0
45°	200.9	183.3	181.9
47.5°	173.4	156.6	157.4
50°	144.5	129.3	129.1
52.5°	116.9	103.7	102.9
55°	92.2	82.8	82.0
57.5°	72.9	68.0	67.1
60°	59.4	57.0	56.1
62.5°	47.9	47.1	46.8
65°	39.9	39.9	39.9
67.5°	34.7	34.9	34.9
70°	31.9	32.2	31.9
72.5°	30.8	31.6	31.6
75°	30.0	30.5	29.4
77.5°	29.4	29.7	27.8
80°	29.2	28.9	25.3
82.5°	25.3	24.5	21.5
85°	23.1	17.6	14.9
87.5°	11.8	8.3	6.3
90°	0.0	0.0	0.0

(END OF REPORT)