

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: P149506

Luminaire Tested: **TLM-F01-LED-E1-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P149506
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1553.2 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 3.83 / 3.85 / 3.8
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

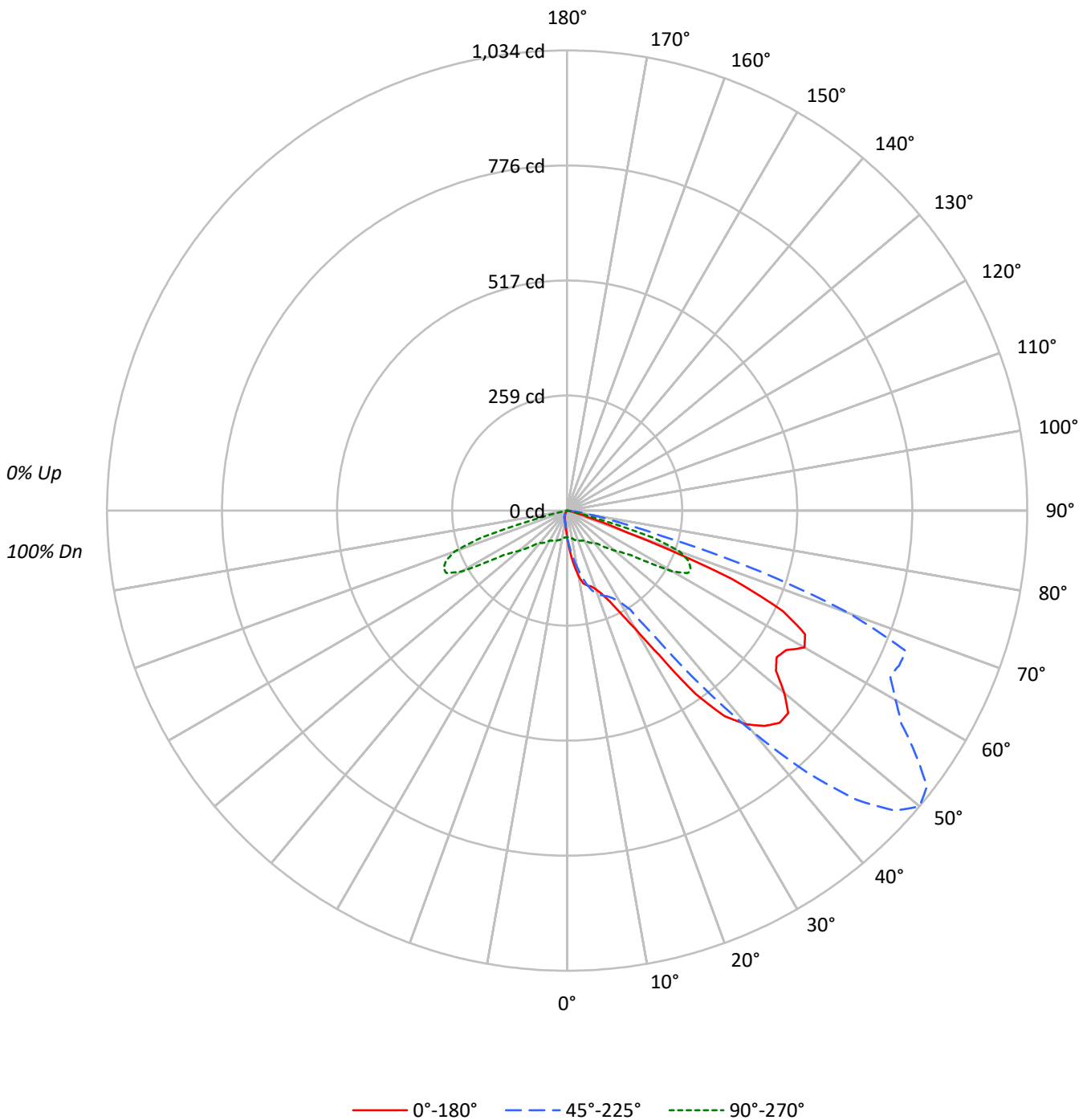
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78
2	93	82	73	66	90	80	72	65	76	69	63	73	67	62	70	65	60	58
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43
4	72	57	46	38	70	56	45	37	53	44	37	50	42	36	48	41	35	33
5	65	49	38	29	62	47	37	29	45	36	29	43	35	28	41	34	28	25
6	58	42	31	23	56	41	31	23	39	30	23	37	29	23	35	28	22	20
7	53	37	26	19	51	36	26	19	34	25	19	33	24	18	31	24	18	16
8	49	33	23	16	47	32	22	16	30	22	15	29	21	15	28	20	15	13
9	45	29	20	13	43	29	19	13	27	19	13	26	18	13	25	18	13	11
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3774	3774	3774
5°	6496	3858	2205
10°	9657	4083	1614
15°	11419	4516	1331
20°	12654	4872	1105
25°	15663	5191	845
30°	22358	5695	658
35°	38826	6810	479
40°	51808	7844	256
45°	60406	10136	72
50°	62688	13820	30
55°	63430	19230	0
60°	77943	34609	0
65°	80244	45860	0
70°	26232	49762	0
75°	4501	16440	0
80°	1130	2261	0
85°	0	1235	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	25.5	1.6
20°-30°	51.9	3.3
30°-40°	126.7	8.2
40°-50°	283.4	18.2
50°-60°	398.5	25.7
60°-70°	468.6	30.2
70°-80°	169.2	10.9
80°-90°	22.6	1.5
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°	84.0	5.4
0°-40°	210.7	13.6
0°-60°	892.7	57.5
0°-90°	1553.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	102	90	61	39	35	11
15°	174	172	69	22	20	49
25°	224	212	74	15	12	109
35°	502	349	88	9	6	308
45°	675	919	113	3	1	511
55°	575	956	174	0	0	533
65°	536	823	306	0	0	473
75°	18	218	67	0	0	38
85°	0	3	2	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	77.9	78.8	78.2	76.8	75.1	72.8	70.9	70.9	70.6	69.7	70.0
5°	102.2	102.5	101.4	98.0	94.9	90.1	84.7	84.1	83.6	82.7	82.4
7.5°	125.9	127.1	125.9	122.3	116.0	108.7	100.2	99.4	97.7	97.7	96.6
10°	150.2	150.2	149.1	144.8	139.2	128.8	118.0	116.6	114.6	114.1	112.4
12.5°	167.4	167.4	166.9	164.6	160.1	150.8	137.8	136.4	133.8	133.0	131.0
15°	174.2	174.2	174.5	176.5	176.8	172.5	159.0	157.8	155.3	153.0	152.2
17.5°	178.5	178.2	178.2	181.0	186.1	188.9	180.1	179.0	176.2	175.1	172.2
20°	187.8	187.2	185.5	185.5	190.3	200.2	200.2	199.9	196.8	196.0	194.5
22.5°	201.6	201.0	196.0	191.7	194.0	206.4	218.0	217.4	216.3	215.2	214.3
25°	224.2	222.2	213.5	201.0	199.1	212.3	231.5	232.9	233.8	233.8	234.4
27.5°	258.4	255.8	240.3	217.1	208.4	221.9	246.5	249.3	251.9	252.4	255.0
30°	305.8	301.3	279.0	245.1	225.0	236.1	268.5	271.6	275.3	276.4	280.4
32.5°	383.7	381.2	359.7	308.9	266.0	263.7	299.3	303.3	308.1	310.0	314.8
35°	502.3	502.9	485.4	439.6	380.3	349.3	354.4	357.7	359.4	365.4	367.9
37.5°	582.8	584.2	588.2	570.1	527.7	496.1	456.3	460.0	451.2	452.1	452.3
40°	626.8	631.4	654.5	672.0	668.6	650.3	618.4	620.3	604.0	600.3	582.5
42.5°	656.2	662.1	699.1	753.3	781.0	797.7	790.3	789.5	776.8	772.0	757.0
45°	674.6	679.9	726.5	806.4	870.2	918.8	938.8	941.1	930.4	925.6	913.1
47.5°	673.7	679.9	729.9	826.2	920.2	997.9	1054.3	1057.2	1063.6	1059.4	1060.3
50°	636.4	642.4	692.6	792.6	905.5	1034.0	1137.3	1146.4	1156.8	1163.9	1167.3
52.5°	591.3	595.5	640.1	735.0	842.8	1019.0	1186.5	1202.0	1217.5	1230.8	1240.1
55°	574.6	579.4	614.4	693.2	792.6	956.3	1209.3	1232.2	1254.2	1276.0	1293.8
57.5°	583.4	587.9	613.0	673.4	762.7	890.3	1215.8	1251.4	1287.6	1322.8	1357.9
60°	615.5	620.3	641.8	691.8	754.7	852.2	1190.4	1249.4	1309.6	1371.1	1429.0
62.5°	602.8	604.8	636.4	724.0	811.2	819.7	1098.1	1180.5	1272.3	1367.2	1460.6
63°	590.7	593.0	625.1	715.2	828.4	814.9	1069.6	1156.5	1253.4	1355.6	1457.3
65°	535.6	535.9	560.5	631.6	809.2	823.4	942.5	1025.5	1136.8	1259.3	1387.8
67.5°	399.8	397.8	421.6	475.8	635.3	823.6	809.0	855.5	932.9	1041.6	1156.8
70°	141.7	138.6	177.0	252.1	395.9	673.7	695.2	698.3	719.7	778.5	850.7
72.5°	46.0	46.9	56.5	92.3	182.4	453.5	629.4	619.8	614.1	613.8	623.4
75°	18.4	18.6	22.6	40.9	81.9	218.5	551.2	556.5	558.5	561.3	564.4
77.5°	8.8	9.6	12.7	22.9	40.7	108.1	394.5	439.9	465.9	485.9	498.1
80°	3.1	3.7	7.1	14.1	18.9	49.7	207.8	250.7	288.9	338.0	380.3
82.5°	0.0	0.0	1.4	9.9	10.4	20.0	85.3	100.0	114.4	148.2	190.3
85°	0.0	0.0	0.0	2.8	3.1	3.4	28.8	34.7	39.0	45.5	52.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.7	4.2	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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	69.5	69.2	69.2	68.6	68.3	67.8	67.5	66.6	66.4	66.4	66.4
5°	82.2	81.0	80.5	79.1	78.2	77.9	76.5	76.0	75.1	75.4	74.0
7.5°	96.3	94.3	93.5	91.5	90.9	88.9	88.4	87.0	86.1	84.4	83.9
10°	111.8	109.3	107.9	104.8	103.9	102.5	100.8	99.1	97.7	96.0	95.2
12.5°	129.6	127.3	126.2	122.0	120.0	118.0	115.8	113.5	111.2	109.8	107.9
15°	150.5	146.8	145.7	141.7	138.4	135.8	132.7	129.9	128.2	125.4	123.4
17.5°	171.1	167.4	166.6	160.7	157.0	155.3	151.9	148.2	145.1	142.3	139.2
20°	191.7	189.2	186.9	181.3	177.3	174.5	170.0	166.3	163.8	159.8	155.9
22.5°	212.3	209.8	208.1	202.2	198.5	194.5	190.6	186.6	183.0	178.2	173.7
25°	233.5	231.8	231.0	225.6	222.2	218.5	214.6	210.1	205.6	200.2	195.4
27.5°	255.5	256.1	254.4	253.3	249.6	247.1	240.9	237.7	234.4	227.9	221.9
30°	283.5	285.2	284.6	285.5	283.2	281.5	276.7	272.8	268.8	262.6	255.8
32.5°	318.8	321.0	322.2	325.3	324.1	323.6	322.2	316.5	313.7	303.0	300.1
35°	373.3	372.1	376.9	379.5	378.4	377.8	376.1	373.0	369.6	362.0	354.9
37.5°	444.1	445.3	447.0	441.9	438.5	438.2	433.1	430.0	425.2	416.8	408.3
40°	574.0	567.0	559.1	537.6	528.3	522.9	508.0	503.7	495.5	484.0	475.2
42.5°	742.9	735.8	712.1	676.2	657.0	630.5	618.4	603.4	591.8	572.9	562.7
45°	910.6	890.3	887.5	845.7	821.9	786.9	765.2	740.1	713.8	689.0	670.9
47.5°	1052.1	1047.6	1033.7	1008.3	986.3	956.9	929.0	890.3	863.2	827.9	795.4
50°	1165.3	1165.0	1159.9	1145.2	1126.9	1103.2	1078.6	1045.9	1015.1	971.9	937.1
52.5°	1250.0	1254.5	1256.2	1251.7	1244.6	1223.7	1211.3	1183.9	1158.0	1121.2	1083.7
55°	1312.1	1328.8	1337.3	1346.9	1344.9	1337.5	1337.0	1319.2	1307.3	1278.2	1251.7
57.5°	1388.9	1416.3	1442.6	1489.2	1490.9	1507.2	1515.7	1524.2	1526.4	1514.9	1506.1
60°	1486.6	1542.5	1592.2	1689.6	1715.0	1755.1	1781.1	1809.4	1833.4	1835.3	1834.8
62.5°	1555.5	1641.6	1721.8	1866.4	1915.8	1962.1	1996.8	2024.2	2040.9	2057.8	2065.7
63°	1557.5	1651.8	1737.1	1886.2	1938.1	1982.2	2015.2	2040.6	2058.1	2068.3	2073.4
65°	1509.8	1624.1	1725.8	1874.3	1923.1	1967.5	1984.7	2001.4	2009.8	2013.8	1998.8
67.5°	1279.6	1391.5	1510.1	1676.1	1717.9	1771.0	1785.1	1793.5	1797.5	1796.6	1783.9
70°	956.9	1050.7	1182.5	1372.3	1427.6	1479.6	1511.7	1525.6	1530.1	1528.7	1509.8
72.5°	668.1	723.1	831.8	1043.0	1118.4	1185.1	1224.9	1245.5	1249.7	1241.2	1223.7
75°	561.0	563.9	588.4	703.9	774.5	845.7	890.6	903.5	895.1	869.4	824.8
77.5°	500.9	507.1	507.1	524.3	538.2	557.9	562.2	530.6	493.8	446.4	408.0
80°	420.1	441.9	457.1	469.8	471.3	467.3	456.9	439.1	410.8	374.7	334.6
82.5°	255.3	298.2	315.7	381.2	413.4	435.1	433.4	409.7	388.2	350.7	316.5
85°	64.4	69.5	75.4	98.0	109.8	134.1	149.4	156.4	159.0	146.0	132.1
87.5°	6.2	4.2	7.1	5.4	7.6	5.6	7.6	7.1	8.8	9.3	10.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	65.8	65.5	65.2	64.9	64.7	64.4	63.8	63.8	63.2	63.0	62.7
5°	73.1	72.6	72.3	71.7	70.9	70.3	69.5	68.3	67.5	67.2	66.6
7.5°	82.4	81.0	80.5	79.6	78.5	76.8	75.7	74.8	73.4	72.6	70.9
10°	92.9	91.5	89.8	88.1	86.4	84.4	83.0	81.9	79.6	78.5	76.5
12.5°	106.2	103.6	101.6	99.4	97.1	94.9	93.2	89.8	87.8	85.3	83.6
15°	119.7	117.5	115.2	112.4	109.0	105.3	103.6	100.5	98.0	94.0	91.8
17.5°	136.1	131.9	128.5	125.1	122.0	118.6	115.2	110.4	106.7	103.3	98.8
20°	152.2	147.1	143.4	138.9	134.4	129.0	125.1	121.7	116.6	112.1	107.3
22.5°	169.4	164.3	158.4	153.9	147.7	143.4	138.1	132.4	127.3	121.4	115.5
25°	190.3	184.9	178.2	172.2	165.2	159.3	152.8	146.3	140.0	133.3	125.6
27.5°	216.0	210.4	203.0	196.0	186.6	179.3	173.1	164.3	156.4	148.0	139.2
30°	248.5	242.3	233.2	223.1	213.7	205.6	196.8	185.2	176.5	166.3	155.0
32.5°	290.8	283.5	271.3	261.7	250.2	239.4	227.3	215.7	203.3	190.0	177.0
35°	344.2	337.4	323.3	309.2	296.5	283.8	268.5	255.3	237.7	221.7	205.0
37.5°	399.5	387.4	374.4	359.2	343.3	328.1	309.5	291.1	271.1	253.6	232.7
40°	462.8	448.1	437.4	421.0	398.7	376.9	359.7	336.9	311.7	288.3	263.7
42.5°	549.5	533.1	513.9	489.0	473.0	447.5	425.2	398.1	365.1	338.8	309.2
45°	649.7	627.4	608.8	584.8	565.3	533.7	507.7	471.5	438.5	404.1	367.9
47.5°	764.1	736.4	709.3	685.6	654.5	623.4	590.4	552.0	509.7	471.8	428.9
50°	895.4	856.1	818.6	788.1	745.4	709.6	673.7	630.5	583.6	540.2	491.3
52.5°	1041.3	995.9	946.2	899.3	849.9	803.9	760.7	711.0	658.7	605.7	551.2
55°	1217.5	1183.4	1124.9	1065.3	999.3	937.7	882.1	820.5	757.0	687.3	629.9
57.5°	1493.4	1476.7	1427.9	1368.3	1282.2	1207.4	1113.1	1037.7	945.6	849.6	775.6
60°	1867.2	1846.6	1819.2	1771.0	1702.6	1601.0	1497.1	1379.9	1239.8	1106.8	980.6
62.5°	2066.6	2059.2	2036.9	2003.6	1939.8	1859.6	1754.9	1626.1	1468.0	1306.5	1145.5
63°	2072.5	2063.2	2044.0	2010.1	1953.9	1876.3	1773.5	1648.4	1493.7	1329.1	1164.7
65°	1992.3	1988.7	1969.2	1932.2	1893.8	1834.5	1754.9	1647.3	1517.4	1361.8	1198.3
67.5°	1767.0	1756.0	1726.1	1714.8	1687.9	1646.7	1586.0	1512.0	1419.1	1296.9	1155.7
70°	1494.5	1478.1	1440.6	1420.5	1387.8	1361.8	1324.8	1272.0	1214.7	1129.4	1024.1
72.5°	1205.7	1171.8	1137.3	1085.1	1039.4	993.1	952.1	914.8	851.9	817.4	737.5
75°	783.0	721.4	662.4	583.4	512.2	449.2	388.0	356.9	292.2	266.0	228.4
77.5°	371.6	337.1	290.8	255.0	209.2	170.8	139.5	104.8	82.2	64.4	49.1
80°	299.9	270.8	242.8	210.4	175.9	140.3	107.6	80.5	57.0	39.5	28.0
82.5°	267.4	235.8	201.3	179.0	155.6	127.3	104.5	85.3	63.0	46.0	31.3
85°	103.9	87.5	67.5	55.1	42.9	35.3	31.9	22.0	17.2	13.6	10.4
87.5°	9.0	7.3	5.9	4.0	4.2	2.3	2.5	1.7	1.4	1.4	1.1
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: P149506

CATALOG NUMBER: TLM-F01-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	62.4	62.1	61.8	61.3	61.3	60.7	60.4	60.1	58.7	55.6	53.1
5°	65.5	64.9	64.4	63.5	63.0	62.1	61.6	60.7	57.6	51.7	46.6
7.5°	70.0	68.9	68.0	66.4	65.5	64.4	63.5	62.1	57.0	48.0	40.9
10°	75.4	73.4	72.0	70.0	68.3	66.9	65.5	63.5	56.5	44.0	35.9
12.5°	81.9	79.6	76.8	74.5	72.3	70.3	68.3	65.8	55.6	40.7	31.9
15°	88.4	85.0	83.0	79.9	76.8	74.0	71.2	68.9	55.9	37.0	28.5
17.5°	95.7	92.3	88.1	84.7	81.3	77.6	74.3	69.7	54.5	34.2	26.0
20°	102.8	98.0	94.0	89.8	85.0	80.5	76.2	72.3	53.4	31.3	23.7
22.5°	110.4	104.8	99.7	94.3	88.4	83.3	78.2	73.1	51.4	28.8	21.7
25°	119.7	113.2	105.9	99.4	93.2	87.0	80.5	74.3	49.4	26.5	20.3
27.5°	131.0	122.5	115.2	107.0	98.3	90.4	83.3	76.5	47.4	24.8	18.9
30°	145.4	135.5	125.1	114.6	105.3	96.3	86.4	77.9	45.5	23.2	17.5
32.5°	164.6	152.2	139.5	127.3	114.9	103.3	92.9	81.9	44.3	21.7	16.1
35°	190.0	173.9	158.4	143.2	128.2	114.1	100.5	88.1	44.3	20.0	14.4
37.5°	214.0	195.4	175.6	156.7	138.9	122.5	106.4	91.5	42.1	18.6	13.0
40°	240.0	217.7	194.5	172.2	150.8	130.4	112.1	94.9	40.1	16.9	11.6
42.5°	279.8	251.6	221.4	195.4	169.7	144.6	121.7	101.4	37.6	15.2	10.2
45°	332.1	296.2	260.6	229.0	196.2	165.5	138.4	113.2	37.0	13.8	8.8
47.5°	388.0	345.6	303.8	263.4	225.0	189.2	156.7	126.5	37.0	12.4	7.6
50°	443.6	390.5	345.9	299.0	255.8	213.5	174.8	140.3	37.3	11.3	6.2
52.5°	493.8	437.1	387.1	332.9	285.2	236.1	194.0	153.9	36.7	9.9	5.1
55°	563.6	497.0	439.1	379.2	323.3	268.0	220.2	174.2	37.0	8.8	4.2
57.5°	692.1	613.8	544.1	465.6	401.2	329.8	271.9	216.0	40.4	7.3	3.1
60°	876.4	774.8	676.8	581.1	499.2	414.2	339.1	273.3	47.4	5.9	2.3
62.5°	1000.4	867.4	750.5	644.9	549.8	460.8	378.9	304.1	52.2	4.8	1.4
63°	1013.1	875.6	758.1	649.1	552.0	463.1	380.6	306.4	52.5	4.5	1.4
65°	1037.1	889.7	762.4	650.0	549.8	460.0	379.5	306.1	53.1	3.7	1.1
67.5°	1009.7	868.0	737.8	625.7	530.0	441.6	365.4	294.8	52.8	2.5	0.8
70°	903.0	785.5	671.2	566.7	479.7	399.8	332.6	268.8	48.6	1.7	0.6
72.5°	663.0	583.1	494.4	419.0	361.4	300.1	256.1	201.9	37.6	1.1	0.3
75°	196.5	179.0	150.5	132.7	117.2	96.8	86.1	67.2	19.2	0.6	0.0
77.5°	39.2	35.6	31.9	29.1	27.4	23.4	22.3	18.4	7.9	0.3	0.0
80°	20.6	16.9	14.4	12.7	11.0	9.0	7.6	6.2	1.4	0.0	0.0
82.5°	19.8	13.3	9.6	7.9	6.8	5.4	4.2	3.1	0.8	0.0	0.0
85°	7.3	5.6	4.2	3.4	2.8	2.5	2.0	1.7	0.0	0.0	0.0
87.5°	1.1	0.8	0.8	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0
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: P149506

CATALOG NUMBER: TLM-F01-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	50.5	48.3	47.2	45.7	45.7	45.5	46.0
5°	42.1	39.0	36.7	35.0	35.3	34.4	34.7
7.5°	35.6	32.5	30.5	29.4	29.1	28.8	28.8
10°	30.8	28.0	26.3	25.4	25.1	25.1	25.1
12.5°	27.4	24.6	23.2	22.6	22.6	22.3	22.3
15°	24.6	22.3	20.9	20.3	20.3	20.0	20.3
17.5°	22.3	20.0	18.9	18.4	18.4	18.1	18.1
20°	20.3	18.4	17.2	16.4	16.4	16.1	16.4
22.5°	18.6	16.7	15.2	14.7	14.4	14.1	14.4
25°	16.9	15.0	13.6	12.7	12.4	12.4	12.1
27.5°	15.5	13.6	11.9	11.0	10.7	10.7	10.4
30°	14.1	11.9	10.2	9.3	9.0	9.0	9.0
32.5°	12.7	10.2	8.8	7.9	7.6	7.6	7.6
35°	11.3	8.8	7.3	6.5	6.2	6.2	6.2
37.5°	9.6	7.3	5.6	5.1	4.8	4.5	4.5
40°	8.2	5.6	4.2	3.7	3.1	3.1	3.1
42.5°	6.8	4.5	3.1	2.3	2.0	1.7	2.0
45°	5.6	3.4	2.0	1.1	0.8	0.8	0.8
47.5°	4.5	2.3	0.8	0.3	0.3	0.3	0.3
50°	3.4	1.4	0.3	0.0	0.0	0.3	0.3
52.5°	2.5	0.8	0.0	0.0	0.0	0.0	0.0
55°	1.4	0.3	0.0	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)