

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: P153536

Luminaire Tested: **TLM-F05-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153536  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F05-LED-E1-SLR-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (35) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

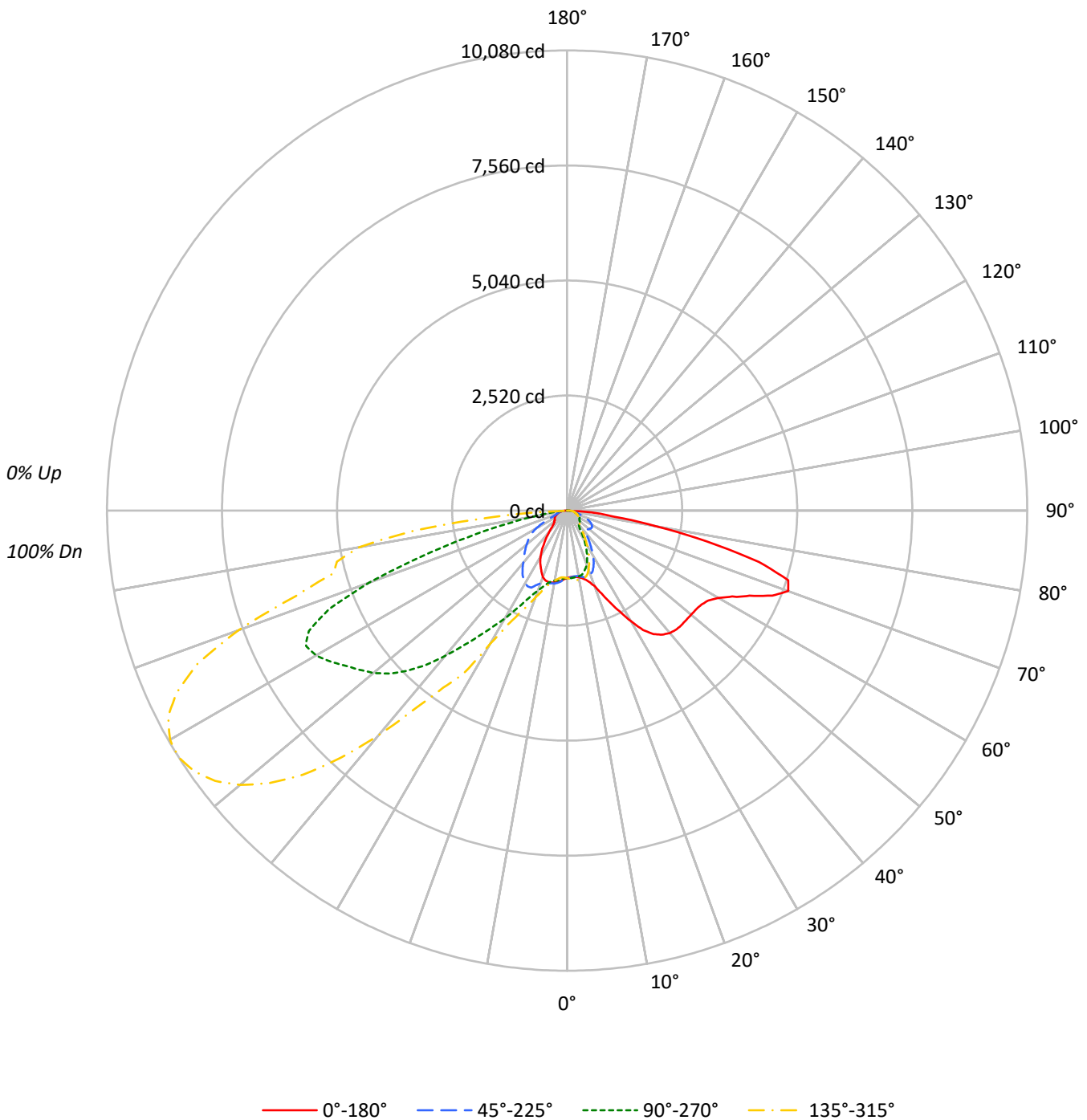
Lumens per Lamp: N/A  
Luminaire Lumens: 11784.7 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): 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-F05-LED-E1-SLR-7050

### 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	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					100			
1	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	19206	19206	19206	19206
5°	18875	19206	20125	19702
10°	19521	19279	21026	20488
15°	21059	18766	21741	22140
20°	24335	17302	21433	25700
25°	31858	14605	19555	31475
30°	41986	11310	17441	40845
35°	52302	7734	13970	52860
40°	59273	6763	10229	70292
45°	64991	7094	7690	91040
50°	71550	7263	7348	111599
55°	81111	7436	7502	133908
60°	99197	8165	8165	164670
65°	135296	8491	8620	191617
70°	195389	8994	9100	174406
75°	217949	9480	10046	112900
80°	148985	10224	11494	54825
85°	96629	12603	13868	26679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	1.2
10°-20°	449.0	3.8
20°-30°	797.7	6.8
30°-40°	1256.1	10.7
40°-50°	1848.6	15.7
50°-60°	2455.5	20.8
60°-70°	2704.7	23.0
70°-80°	1696.9	14.4
80°-90°	432.2	3.7
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°	1390.8	11.8
0°-40°	2646.9	22.5
0°-60°	6950.9	59.0
0°-90°	11784.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11784.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1481	1481	1481	1481	1481	
5°	1450	1475	1546	1513	1450	140
15°	1568	1398	1619	1649	1568	454
25°	2226	1021	1367	2200	2226	1051
35°	3304	488	882	3339	3304	2047
45°	3544	387	419	4964	3544	2740
55°	3587	329	332	5922	3587	3254
65°	4409	277	281	6244	4409	4439
75°	4350	189	200	2253	4350	4254
85°	649	85	93	179	649	751
90°	0	0	0	0	0	



TEST NUMBER: P153536

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1461.2	1465.4	1464.0	1464.0	1466.9	1465.4	1465.4	1466.9	1466.9	1471.1	1476.7
5°	1449.9	1448.5	1445.7	1448.5	1448.5	1448.5	1442.9	1447.1	1448.5	1451.3	1451.3
7.5°	1464.0	1459.8	1454.1	1455.6	1455.6	1452.7	1448.5	1449.9	1448.5	1448.5	1447.1
10°	1482.4	1472.5	1465.4	1465.4	1465.4	1462.6	1455.6	1459.8	1459.8	1458.4	1459.8
12.5°	1514.9	1503.6	1495.1	1492.3	1492.3	1488.0	1482.4	1488.0	1485.2	1485.2	1482.4
15°	1568.5	1555.8	1545.9	1537.4	1538.9	1538.9	1531.8	1527.6	1521.9	1514.9	1500.7
17.5°	1649.0	1634.9	1622.1	1615.1	1616.5	1606.6	1586.9	1567.1	1540.3	1513.4	1483.8
20°	1763.3	1759.1	1742.2	1735.1	1718.2	1694.2	1639.1	1592.5	1540.3	1489.4	1438.6
22.5°	1961.0	1941.2	1924.3	1897.4	1841.0	1774.6	1682.9	1601.0	1519.1	1447.1	1379.3
25°	2226.4	2191.1	2107.8	2025.9	1910.2	1791.6	1667.3	1561.4	1459.8	1365.2	1281.9
27.5°	2487.6	2380.3	2232.0	2083.8	1914.4	1759.1	1603.8	1478.1	1359.6	1256.5	1164.7
30°	2803.8	2623.1	2395.8	2161.5	1921.4	1712.5	1526.1	1379.3	1242.4	1133.7	1037.7
32.5°	3100.3	2839.1	2541.2	2233.5	1937.0	1668.7	1437.2	1270.6	1129.4	992.5	897.9
35°	3303.6	2964.8	2603.3	2240.5	1898.9	1585.4	1325.7	1129.4	988.3	861.2	749.7
37.5°	3425.0	3019.8	2606.2	2189.7	1809.9	1472.5	1184.5	989.7	859.8	738.4	650.8
40°	3501.2	3032.5	2569.5	2116.3	1697.0	1329.9	1043.3	868.3	749.7	652.2	584.5
42.5°	3538.0	3012.8	2510.2	2023.1	1582.6	1202.8	944.5	779.3	676.2	607.1	556.2
45°	3543.6	2977.5	2446.6	1938.4	1481.0	1111.1	876.7	742.6	657.9	600.0	549.2
47.5°	3543.6	2946.4	2395.8	1876.3	1414.6	1071.6	871.1	758.1	674.8	609.9	549.2
50°	3546.4	2936.5	2374.6	1845.2	1392.0	1092.7	919.1	806.1	711.5	626.8	547.8
52.5°	3559.1	2949.2	2391.6	1869.2	1433.0	1177.4	1009.4	878.1	759.5	646.6	547.8
55°	3587.4	2991.6	2463.6	1952.5	1543.1	1305.9	1118.1	955.8	797.7	655.1	539.3
57.5°	3666.4	3098.9	2594.9	2113.5	1730.9	1454.1	1217.0	1010.8	811.8	648.0	522.4
60°	3824.5	3312.1	2819.4	2339.3	1929.9	1581.2	1274.8	1019.3	799.1	625.4	495.5
62.5°	4077.3	3556.3	3091.8	2585.0	2106.4	1651.8	1281.9	998.1	765.2	584.5	456.0
63°	4164.8	3617.0	3149.7	2631.6	2129.0	1657.4	1276.3	989.7	756.7	573.2	450.4
65°	4409.0	3872.5	3350.2	2795.3	2192.5	1658.9	1245.2	947.3	717.2	529.4	410.8
67.5°	4865.0	4208.6	3602.9	2923.8	2215.1	1613.7	1166.1	868.3	633.9	461.7	361.4
70°	5153.0	4396.3	3700.3	2926.6	2148.7	1485.2	1029.2	739.8	528.0	382.6	310.6
72.5°	5078.2	4211.4	3443.4	2662.6	1862.2	1241.0	827.3	581.7	412.2	306.4	258.4
75°	4349.7	3505.5	2809.5	2062.6	1407.6	912.0	605.7	415.1	304.9	240.0	216.0
77.5°	3131.4	2522.9	2014.6	1469.7	948.7	590.1	402.4	296.5	231.5	197.7	177.9
80°	1994.9	1479.6	1232.5	883.8	554.8	365.7	276.7	224.5	190.6	165.2	152.5
82.5°	1041.9	729.9	593.0	451.8	307.8	241.4	203.3	183.5	156.7	136.9	129.9
85°	649.4	430.6	319.1	223.1	153.9	138.4	127.1	124.2	111.5	98.8	94.6
87.5°	73.4	66.4	69.2	43.8	32.5	35.3	33.9	45.2	43.8	32.5	33.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1471.1	1473.9	1473.9	1478.1	1478.1	1481.0	1483.8	1483.8	1486.6	1488.0	1490.9
5°	1454.1	1454.1	1454.1	1459.8	1461.2	1469.7	1472.5	1475.3	1478.1	1488.0	1493.7
7.5°	1449.9	1444.3	1447.1	1447.1	1451.3	1458.4	1465.4	1469.7	1473.9	1486.6	1495.1
10°	1458.4	1454.1	1449.9	1449.9	1451.3	1454.1	1459.8	1464.0	1466.9	1479.6	1486.6
12.5°	1481.0	1471.1	1462.6	1455.6	1449.9	1448.5	1445.7	1447.1	1449.9	1457.0	1466.9
15°	1485.2	1466.9	1448.5	1430.1	1416.0	1407.6	1400.5	1397.7	1397.7	1401.9	1413.2
17.5°	1457.0	1425.9	1399.1	1375.1	1359.6	1344.0	1337.0	1331.3	1328.5	1334.1	1335.6
20°	1396.3	1359.6	1322.8	1294.6	1266.4	1262.1	1250.8	1253.7	1256.5	1265.0	1269.2
22.5°	1313.0	1269.2	1224.0	1194.4	1171.8	1152.0	1139.3	1145.0	1149.2	1157.7	1161.9
25°	1211.3	1147.8	1099.8	1070.1	1046.1	1029.2	1015.1	1020.7	1015.1	1025.0	1040.5
27.5°	1091.3	1016.5	965.7	931.8	914.8	900.7	886.6	886.6	900.7	900.7	913.4
30°	945.9	890.8	824.5	789.2	768.0	759.5	758.1	755.3	765.2	770.8	785.0
32.5°	809.0	741.2	677.7	643.8	625.4	615.5	617.0	618.4	622.6	631.1	653.7
35°	670.6	611.3	566.1	528.0	509.7	491.3	491.3	488.5	492.7	502.6	529.4
37.5°	581.7	529.4	494.1	464.5	446.1	434.8	424.9	420.7	420.7	424.9	434.8
40°	532.2	494.1	461.7	436.2	419.3	409.4	403.8	399.5	396.7	396.7	398.1
42.5°	509.7	470.1	437.7	415.1	402.4	396.7	395.3	393.9	389.7	388.2	386.8
45°	498.4	453.2	416.5	398.1	388.2	385.4	386.8	386.8	385.4	382.6	376.9
47.5°	489.9	437.7	400.9	384.0	379.8	379.8	379.8	379.8	378.4	376.9	372.7
50°	475.8	413.7	374.1	361.4	358.6	358.6	360.0	360.0	362.8	360.0	357.2
52.5°	460.2	391.1	351.5	340.2	338.8	337.4	337.4	337.4	338.8	338.8	337.4
55°	443.3	374.1	340.2	331.8	333.2	331.8	330.4	328.9	328.9	327.5	324.7
57.5°	426.4	360.0	331.8	326.1	327.5	327.5	324.7	321.9	320.5	316.2	313.4
60°	400.9	340.2	314.8	312.0	316.2	316.2	316.2	314.8	314.8	313.4	306.4
62.5°	367.1	312.0	292.2	293.7	295.1	297.9	297.9	297.9	297.9	295.1	288.0
63°	360.0	306.4	288.0	288.0	292.2	292.2	293.7	292.2	293.7	290.8	282.4
65°	331.8	288.0	273.9	275.3	278.1	278.1	278.1	276.7	276.7	272.5	268.2
67.5°	299.3	265.4	256.9	258.4	259.8	262.6	261.2	261.2	262.6	259.8	255.5
70°	262.6	241.4	235.8	237.2	238.6	238.6	237.2	237.2	238.6	235.8	231.5
72.5°	234.4	225.9	221.7	221.7	218.8	218.8	216.0	214.6	213.2	213.2	208.9
75°	197.7	196.2	197.7	200.5	197.7	194.8	193.4	189.2	186.4	186.4	184.9
77.5°	169.4	169.4	172.2	176.5	177.9	177.9	173.7	166.6	165.2	165.2	165.2
80°	146.8	144.0	144.0	148.2	152.5	151.1	144.0	136.9	136.9	144.0	145.4
82.5°	128.5	128.5	124.2	125.6	124.2	122.8	115.8	111.5	110.1	115.8	121.4
85°	101.6	103.1	101.6	100.2	98.8	94.6	88.9	84.7	83.3	88.9	97.4
87.5°	40.9	39.5	38.1	39.5	38.1	40.9	39.5	36.7	35.3	39.5	48.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1492.3	1495.1	1497.9	1497.9	1500.7	1499.3	1500.7	1502.1	1502.1	1503.6	1503.6
5°	1500.7	1505.0	1510.6	1516.3	1517.7	1521.9	1526.1	1523.3	1527.6	1533.2	1533.2
7.5°	1503.6	1513.4	1517.7	1526.1	1527.6	1533.2	1543.1	1536.0	1544.5	1548.7	1550.1
10°	1499.3	1509.2	1516.3	1526.1	1530.4	1540.3	1550.1	1547.3	1557.2	1564.3	1565.7
12.5°	1473.9	1483.8	1499.3	1513.4	1524.7	1540.3	1558.6	1553.0	1567.1	1575.6	1579.8
15°	1424.5	1434.4	1451.3	1473.9	1495.1	1519.1	1543.1	1547.3	1561.4	1571.3	1575.6
17.5°	1346.9	1359.6	1377.9	1401.9	1428.7	1469.7	1500.7	1516.3	1536.0	1541.7	1548.7
20°	1274.8	1287.6	1298.8	1313.0	1332.7	1372.3	1413.2	1444.3	1469.7	1490.9	1496.5
22.5°	1178.8	1190.1	1204.3	1215.6	1229.7	1257.9	1291.8	1327.1	1366.6	1379.3	1393.4
25°	1063.1	1070.1	1089.9	1097.0	1106.8	1130.8	1157.7	1183.1	1221.2	1248.0	1255.1
27.5°	938.8	945.9	964.3	968.5	981.2	1003.8	1023.5	1033.4	1068.7	1097.0	1119.6
30°	794.8	813.2	835.8	838.6	852.7	866.8	885.2	895.1	927.5	957.2	985.4
32.5°	670.6	689.0	707.3	718.6	725.7	737.0	755.3	765.2	796.3	823.1	851.3
35°	543.5	566.1	585.9	601.4	607.1	621.2	635.3	645.2	677.7	701.7	721.4
37.5°	447.5	464.5	485.7	501.2	516.7	526.6	543.5	557.7	577.4	590.1	611.3
40°	400.9	409.4	420.7	433.4	446.1	457.4	470.1	481.4	494.1	511.1	525.2
42.5°	385.4	386.8	386.8	391.1	398.1	403.8	415.1	423.5	432.0	444.7	451.8
45°	374.1	372.7	369.9	367.1	368.5	371.3	378.4	384.0	393.9	399.5	400.9
47.5°	368.5	362.8	357.2	352.9	351.5	352.9	358.6	364.2	369.9	374.1	375.5
50°	350.1	345.9	337.4	331.8	328.9	331.8	338.8	341.7	347.3	351.5	352.9
52.5°	331.8	326.1	320.5	314.8	314.8	316.2	321.9	327.5	333.2	334.6	337.4
55°	320.5	312.0	306.4	302.1	299.3	303.5	307.8	314.8	321.9	323.3	326.1
57.5°	309.2	300.7	295.1	290.8	288.0	292.2	296.5	306.4	314.8	314.8	314.8
60°	302.1	295.1	286.6	282.4	278.1	282.4	288.0	297.9	306.4	304.9	303.5
62.5°	282.4	275.3	271.1	271.1	266.8	273.9	279.5	290.8	292.2	289.4	286.6
63°	276.7	271.1	268.2	268.2	265.4	272.5	278.1	288.0	288.0	285.2	282.4
65°	262.6	258.4	255.5	258.4	258.4	265.4	266.8	273.9	272.5	268.2	266.8
67.5°	251.3	248.5	245.7	245.7	245.7	247.1	248.5	251.3	249.9	248.5	249.9
70°	232.9	231.5	228.7	228.7	227.3	227.3	227.3	228.7	228.7	230.1	231.5
72.5°	210.4	207.5	207.5	208.9	206.1	207.5	208.9	207.5	210.4	210.4	211.8
75°	184.9	183.5	186.4	189.2	187.8	187.8	189.2	189.2	190.6	190.6	192.0
77.5°	165.2	166.6	168.0	170.8	172.2	172.2	172.2	170.8	172.2	172.2	173.7
80°	146.8	149.7	152.5	155.3	156.7	156.7	156.7	155.3	155.3	155.3	155.3
82.5°	132.7	136.9	139.8	141.2	141.2	141.2	141.2	141.2	141.2	138.4	135.5
85°	111.5	120.0	120.0	121.4	117.2	114.4	111.5	112.9	114.4	108.7	107.3
87.5°	56.5	56.5	59.3	62.1	63.5	63.5	72.0	67.8	66.4	64.9	62.1
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: P153536

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1505.0	1503.6	1506.4	1503.6	1505.0	1506.4	1503.6	1507.8	1510.6	1506.4	1502.1
5°	1536.0	1536.0	1543.1	1545.9	1547.3	1555.8	1551.6	1554.4	1557.2	1555.8	1557.2
7.5°	1555.8	1561.4	1568.5	1575.6	1577.0	1584.0	1582.6	1586.9	1589.7	1596.7	1596.7
10°	1572.7	1579.8	1589.7	1596.7	1603.8	1609.4	1612.3	1620.7	1622.1	1627.8	1627.8
12.5°	1588.3	1596.7	1606.6	1617.9	1625.0	1636.3	1637.7	1650.4	1654.6	1656.0	1651.8
15°	1585.4	1595.3	1606.6	1619.3	1632.0	1646.2	1654.6	1667.3	1674.4	1677.2	1670.2
17.5°	1558.6	1567.1	1581.2	1598.1	1613.7	1632.0	1647.6	1665.9	1677.2	1680.0	1678.6
20°	1506.4	1512.0	1530.4	1553.0	1571.3	1599.6	1622.1	1650.4	1668.7	1682.9	1687.1
22.5°	1403.3	1417.4	1435.8	1461.2	1488.0	1523.3	1555.8	1596.7	1636.3	1670.2	1704.0
25°	1279.1	1304.5	1332.7	1366.6	1399.1	1435.8	1472.5	1519.1	1577.0	1647.6	1728.0
27.5°	1153.4	1197.2	1232.5	1276.3	1314.4	1351.1	1392.0	1442.9	1506.4	1591.1	1694.2
30°	1026.4	1075.8	1113.9	1164.7	1215.6	1265.0	1305.9	1359.6	1421.7	1507.8	1620.7
32.5°	890.8	940.3	985.4	1032.0	1088.5	1147.8	1197.2	1263.6	1329.9	1418.9	1533.2
35°	751.1	794.8	833.0	882.4	944.5	1008.0	1073.0	1149.2	1221.2	1314.4	1435.8
37.5°	629.7	660.7	697.4	741.2	789.2	857.0	930.4	1020.7	1102.6	1204.3	1328.5
40°	529.4	546.4	567.5	604.2	648.0	714.4	786.4	882.4	981.2	1092.7	1212.7
42.5°	451.8	460.2	465.9	489.9	525.2	590.1	659.3	752.5	861.2	982.6	1104.0
45°	400.9	405.2	406.6	419.3	444.7	501.2	573.2	652.2	756.7	875.3	1002.4
47.5°	376.9	381.2	384.0	386.8	402.4	446.1	511.1	585.9	681.9	790.6	920.5
50°	357.2	361.4	365.7	364.2	371.3	399.5	454.6	523.8	614.1	714.4	842.8
52.5°	337.4	340.2	340.2	340.2	344.5	362.8	402.4	465.9	549.2	643.8	770.8
55°	326.1	328.9	330.4	331.8	333.2	343.1	372.7	423.5	495.5	583.1	697.4
57.5°	314.8	316.2	319.1	320.5	323.3	328.9	347.3	384.0	444.7	518.1	614.1
60°	304.9	307.8	313.4	314.8	317.7	319.1	327.5	350.1	389.7	446.1	523.8
62.5°	289.4	293.7	299.3	300.7	303.5	304.9	306.4	319.1	337.4	371.3	429.2
63°	285.2	289.4	296.5	297.9	299.3	299.3	300.7	309.2	326.1	355.8	398.1
65°	269.7	275.3	279.5	280.9	282.4	282.4	280.9	283.8	285.2	297.9	323.3
67.5°	252.7	256.9	259.8	261.2	259.8	261.2	259.8	256.9	254.1	256.9	268.2
70°	235.8	238.6	238.6	240.0	241.4	242.8	240.0	237.2	234.4	232.9	240.0
72.5°	216.0	218.8	218.8	220.2	220.2	223.1	223.1	221.7	221.7	223.1	224.5
75°	196.2	199.1	197.7	200.5	200.5	204.7	204.7	206.1	208.9	207.5	206.1
77.5°	177.9	179.3	179.3	180.7	182.1	189.2	193.4	194.8	194.8	192.0	189.2
80°	158.1	158.1	155.3	153.9	155.3	162.4	170.8	172.2	176.5	175.1	176.5
82.5°	132.7	127.1	122.8	122.8	125.6	129.9	132.7	135.5	138.4	138.4	141.2
85°	101.6	96.0	91.8	93.2	97.4	98.8	97.4	97.4	103.1	107.3	103.1
87.5°	60.7	55.1	52.2	48.0	49.4	53.6	52.2	48.0	49.4	39.5	36.7
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: P153536

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1505.0	1503.6	1500.7	1496.5	1495.1	1492.3	1493.7	1489.4	1486.6	1483.8	1479.6
5°	1557.2	1557.2	1548.7	1548.7	1544.5	1543.1	1533.2	1529.0	1520.5	1523.3	1513.4
7.5°	1593.9	1598.1	1588.3	1586.9	1581.2	1579.8	1567.1	1562.9	1555.8	1553.0	1544.5
10°	1620.7	1620.7	1608.0	1598.1	1591.1	1584.0	1571.3	1565.7	1560.0	1561.4	1555.8
12.5°	1641.9	1632.0	1613.7	1599.6	1589.7	1582.6	1572.7	1568.5	1567.1	1577.0	1578.4
15°	1658.9	1644.7	1622.1	1612.3	1603.8	1602.4	1602.4	1606.6	1616.5	1634.9	1649.0
17.5°	1668.7	1660.3	1649.0	1646.2	1660.3	1668.7	1680.0	1692.7	1706.9	1732.3	1747.8
20°	1687.1	1692.7	1701.2	1712.5	1735.1	1756.3	1770.4	1788.7	1805.7	1836.7	1862.2
22.5°	1735.1	1767.6	1794.4	1817.0	1850.9	1880.5	1898.9	1924.3	1937.0	1958.2	1997.7
25°	1797.2	1863.6	1920.0	1968.0	2020.3	2051.3	2076.7	2109.2	2129.0	2164.3	2199.6
27.5°	1778.9	1873.4	1958.2	2047.1	2119.1	2199.6	2256.0	2309.7	2343.6	2395.8	2442.4
30°	1722.4	1835.3	1949.7	2066.9	2181.2	2297.0	2404.3	2501.7	2576.5	2651.3	2727.6
32.5°	1646.2	1776.0	1915.8	2059.8	2209.5	2370.4	2518.6	2665.5	2789.7	2898.4	3004.3
35°	1558.6	1705.4	1850.9	2028.7	2213.7	2418.4	2624.5	2827.8	3017.0	3209.0	3338.9
37.5°	1454.1	1603.8	1766.2	1970.9	2188.3	2441.0	2703.6	2969.0	3237.2	3495.6	3720.1
40°	1342.6	1495.1	1665.9	1887.6	2133.2	2426.9	2754.4	3111.6	3480.1	3854.2	4152.1
42.5°	1243.8	1400.5	1586.9	1811.3	2078.2	2408.5	2795.3	3234.4	3684.8	4147.8	4585.5
45°	1147.8	1320.0	1516.3	1757.7	2054.2	2422.6	2856.1	3348.8	3868.3	4430.2	4963.9
47.5°	1061.7	1236.7	1427.3	1691.3	2018.9	2429.7	2915.4	3463.1	4042.0	4650.4	5284.3
50°	984.0	1153.4	1341.2	1606.6	1963.8	2425.5	2969.0	3566.2	4191.6	4824.1	5531.4
52.5°	907.8	1080.0	1272.0	1524.7	1896.0	2401.5	2994.4	3650.9	4330.0	4999.2	5730.5
55°	833.0	1002.4	1195.8	1447.1	1807.1	2339.3	2991.6	3706.0	4440.1	5164.3	5922.5
57.5°	745.4	906.4	1095.6	1361.0	1712.5	2243.3	2949.2	3731.4	4534.7	5328.1	6152.6
60°	636.7	787.8	969.9	1235.3	1588.3	2120.5	2860.3	3717.3	4589.7	5449.5	6348.8
62.5°	502.6	633.9	800.5	1060.3	1433.0	1944.0	2693.7	3588.8	4502.2	5432.6	6440.6
63°	474.4	598.6	761.0	1017.9	1366.6	1896.0	2644.3	3538.0	4459.9	5397.3	6427.9
65°	381.2	461.7	591.5	821.7	1143.6	1660.3	2398.6	3276.8	4232.6	5148.8	6244.4
67.5°	292.2	333.2	402.4	563.3	809.0	1305.9	1942.6	2777.0	3673.5	4534.7	5652.8
70°	249.9	268.2	297.9	374.1	513.9	824.5	1363.8	2071.1	2847.6	3594.4	4599.6
72.5°	227.3	235.8	251.3	283.8	352.9	494.1	869.7	1348.3	1937.0	2562.4	3338.9
75°	208.9	216.0	228.7	245.7	271.1	328.9	495.5	824.5	1259.3	1682.9	2253.2
77.5°	190.6	194.8	208.9	224.5	241.4	271.1	327.5	474.4	724.2	992.5	1358.1
80°	175.1	172.2	182.1	207.5	224.5	241.4	258.4	307.8	412.2	543.5	734.1
82.5°	139.8	142.6	151.1	176.5	183.5	179.3	182.1	190.6	230.1	251.3	375.5
85°	94.6	87.5	86.1	88.9	88.9	84.7	84.7	83.3	91.8	104.5	179.3
87.5°	25.4	12.7	0.0	0.0	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	0.0	0.0	0.0	0.0



TEST NUMBER: P153536

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1476.7	1475.3	1476.7	1469.7	1469.7	1468.3	1466.9	1464.0	1464.0	1458.4	1462.6
5°	1505.0	1502.1	1496.5	1488.0	1483.8	1478.1	1478.1	1472.5	1468.3	1462.6	1464.0
7.5°	1537.4	1538.9	1529.0	1521.9	1519.1	1513.4	1514.9	1506.4	1507.8	1503.6	1500.7
10°	1555.8	1555.8	1558.6	1557.2	1560.0	1560.0	1564.3	1558.6	1555.8	1551.6	1551.6
12.5°	1585.4	1591.1	1602.4	1602.4	1610.9	1613.7	1615.1	1617.9	1612.3	1609.4	1599.6
15°	1658.9	1673.0	1682.9	1697.0	1713.9	1719.6	1719.6	1713.9	1711.1	1706.9	1688.5
17.5°	1780.3	1811.3	1819.8	1842.4	1845.2	1852.3	1872.0	1860.7	1853.7	1824.0	1818.4
20°	1904.5	1944.0	1983.6	2011.8	2025.9	2054.2	2058.4	2052.7	2024.5	1996.3	1983.6
22.5°	2054.2	2113.5	2158.6	2202.4	2223.6	2237.7	2268.8	2261.7	2239.1	2196.7	2179.8
25°	2265.9	2339.3	2387.3	2441.0	2469.2	2483.3	2514.4	2514.4	2490.4	2477.7	2476.3
27.5°	2532.8	2623.1	2702.2	2720.5	2793.9	2810.9	2840.5	2840.5	2817.9	2802.4	2877.2
30°	2829.2	2923.8	3060.8	3152.5	3241.5	3329.0	3327.6	3333.2	3360.1	3374.2	3406.7
32.5°	3125.7	3242.9	3388.3	3587.4	3778.0	3940.3	4150.7	4284.8	4243.8	4129.5	4084.3
35°	3485.7	3615.6	3792.1	3992.5	4341.3	4551.6	4653.3	4725.3	4733.7	4749.3	4781.7
37.5°	3886.7	4104.1	4308.8	4536.1	4729.5	4985.0	5220.8	5410.0	5453.8	5542.7	5491.9
40°	4393.5	4636.3	4850.9	5144.6	5404.3	5712.1	6049.5	6309.3	6413.8	6379.9	6125.8
42.5°	4924.3	5225.0	5476.3	5822.2	6159.7	6566.2	6915.0	7277.8	7342.7	7081.6	6701.8
45°	5412.8	5785.5	6097.5	6457.5	6869.8	7356.9	7822.7	8195.5	8182.8	7735.2	7227.0
47.5°	5851.9	6309.3	6690.5	7159.2	7602.5	8182.8	8717.8	8993.1	8830.8	8301.3	7678.7
50°	6214.7	6785.1	7255.2	7729.6	8292.9	8991.7	9507.0	9662.3	9348.9	8772.9	8117.8
52.5°	6507.0	7222.7	7750.7	8297.1	9008.6	9744.2	10187.5	10129.6	9724.4	9132.9	8480.6
55°	6754.0	7557.3	8187.0	8832.2	9714.5	10392.2	10687.3	10532.0	9965.8	9365.8	8729.1
57.5°	7009.6	7882.0	8587.9	9336.2	10318.8	10900.5	11064.2	10745.2	10080.2	9454.8	8836.4
60°	7265.1	8153.1	8942.3	9776.7	10776.2	11315.5	11270.3	10793.2	10046.3	9389.8	8764.4
62.5°	7437.3	8314.0	9148.4	10047.7	11119.3	11527.3	11250.6	10622.3	9850.1	9134.3	8549.8
63°	7441.6	8319.7	9161.1	10066.1	11157.4	11534.3	11212.5	10561.6	9788.0	9082.1	8486.3
65°	7352.6	8213.8	9048.2	9982.8	11124.9	11372.0	10883.5	10203.0	9433.6	8720.6	8155.9
67.5°	6898.0	7776.2	8513.1	9394.1	10543.3	10613.9	10002.6	9453.4	8761.6	8023.2	7433.1
70°	5981.8	6711.7	7434.5	8170.0	9134.3	9121.6	8547.0	8267.5	7661.8	6820.4	6347.4
72.5°	4757.7	5412.8	5921.1	6413.8	7049.1	6920.6	6550.7	6628.4	6235.9	5607.6	5326.7
75°	3532.3	4252.3	4500.8	4701.3	4969.5	4970.9	5072.6	5292.8	5287.2	4938.5	4584.1
77.5°	2316.8	3104.5	3187.8	3348.8	3670.7	4108.3	4560.1	5045.7	5167.2	4891.9	4368.1
80°	1291.8	2110.6	2014.6	2153.0	2500.3	3094.6	3761.0	4297.5	4613.7	4459.9	3905.0
82.5°	660.7	1217.0	1163.3	1355.3	1636.3	2153.0	2593.5	3005.7	3378.4	3357.2	3146.9
85°	343.1	666.4	758.1	858.4	999.5	1184.5	1351.1	1471.1	1626.4	1900.3	1993.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	101.6	73.4	201.9	288.0
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: P153536

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1464.0	1465.4	1462.6	1462.6	1464.0	1464.0	1461.2
5°	1461.2	1461.2	1458.4	1455.6	1452.7	1452.7	1449.9
7.5°	1493.7	1493.7	1483.8	1479.6	1472.5	1466.9	1464.0
10°	1541.7	1533.2	1521.9	1513.4	1502.1	1489.4	1482.4
12.5°	1589.7	1577.0	1562.9	1550.1	1536.0	1521.9	1514.9
15°	1668.7	1651.8	1633.4	1617.9	1598.1	1577.0	1568.5
17.5°	1790.2	1763.3	1739.3	1716.7	1681.4	1665.9	1649.0
20°	1951.1	1911.6	1880.5	1842.4	1798.6	1784.5	1763.3
22.5°	2145.9	2112.0	2049.9	2021.7	1977.9	1956.7	1961.0
25°	2442.4	2398.6	2326.6	2299.8	2295.6	2249.0	2226.4
27.5°	2829.2	2832.1	2765.7	2693.7	2654.2	2580.8	2487.6
30°	3379.8	3341.7	3264.1	3190.7	3097.5	2959.1	2803.8
32.5°	4046.2	3961.5	3833.0	3696.1	3530.9	3317.7	3100.3
35°	4697.0	4548.8	4344.1	4115.4	3876.8	3611.4	3303.6
37.5°	5268.8	5038.7	4732.3	4469.7	4132.3	3800.5	3425.0
40°	5791.2	5506.0	5110.7	4770.4	4372.3	3946.0	3501.2
42.5°	6296.6	5935.2	5450.9	4990.7	4540.3	4043.4	3538.0
45°	6778.0	6312.1	5737.5	5189.7	4663.2	4106.9	3543.6
47.5°	7147.9	6639.7	5994.5	5333.8	4747.9	4154.9	3543.6
50°	7491.0	6916.4	6190.7	5446.7	4826.9	4187.4	3546.4
52.5°	7757.8	7111.2	6317.8	5527.2	4889.0	4211.4	3559.1
55°	7951.2	7238.3	6402.5	5576.6	4934.2	4245.3	3587.4
57.5°	8086.7	7321.6	6449.1	5620.3	4989.3	4304.6	3666.4
60°	8151.7	7475.4	6526.7	5707.9	5083.9	4430.2	3824.5
62.5°	8102.3	7714.0	6748.4	5856.1	5215.2	4626.4	4077.3
63°	8081.1	7757.8	6809.1	5888.6	5244.8	4668.8	4164.8
65°	7915.9	7801.6	7059.0	6052.4	5386.0	4856.6	4409.0
67.5°	7403.4	7629.3	7269.3	6329.1	5689.5	5312.6	4865.0
70°	6739.9	7373.8	7231.2	6364.4	5882.9	5686.7	5153.0
72.5°	5945.1	6601.5	6468.8	5894.2	5669.8	5690.9	5078.2
75°	4678.7	5171.4	5083.9	4882.0	4927.2	5082.5	4349.7
77.5°	3748.3	3682.0	3480.1	3494.2	3755.4	3937.5	3131.4
80°	3062.2	2479.1	2216.5	2223.6	2679.6	2868.8	1994.9
82.5°	2913.9	2345.0	1910.2	1668.7	1949.7	1877.7	1041.9
85°	2075.3	2079.6	1725.2	1401.9	1358.1	1154.8	649.4
87.5°	491.3	393.9	280.9	208.9	220.2	145.4	73.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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