

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: P153520

Luminaire Tested: **TLM-E04-LED-E1-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153520  
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-E04-LED-E1-SLR  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

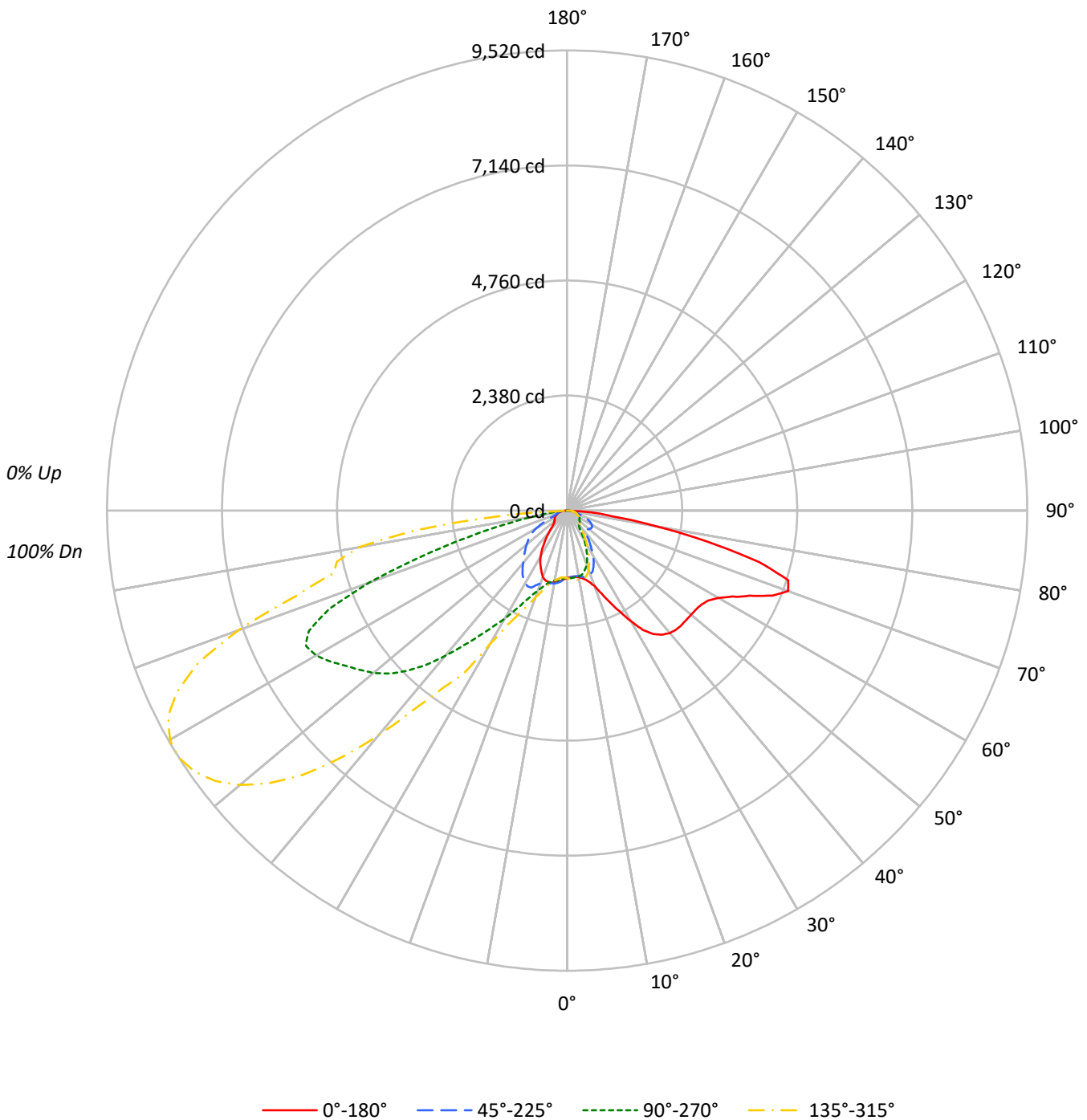
Lumens per Lamp: N/A  
Luminaire Lumens: 11129.8 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): 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	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13

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

	0°	90°	180°	270°
0°	22471	22471	22471	22471
5°	22083	22470	23545	23050
10°	22839	22557	24601	23969
15°	24637	21955	25436	25901
20°	28471	20242	25076	30068
25°	37273	17088	22879	36823
30°	49123	13232	20406	47787
35°	61191	9047	16343	61844
40°	69348	7913	11969	82238
45°	76037	8300	8997	106512
50°	83711	8498	8598	130566
55°	94896	8703	8775	156665
60°	116057	9553	9553	192658
65°	158292	9933	10085	224182
70°	228601	10522	10649	204049
75°	254994	11092	11750	132090
80°	174304	11963	13443	64143
85°	113050	14747	16221	31207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	1.2
10°-20°	424.0	3.8
20°-30°	753.3	6.8
30°-40°	1186.3	10.7
40°-50°	1745.9	15.7
50°-60°	2319.0	20.8
60°-70°	2554.4	23.0
70°-80°	1602.6	14.4
80°-90°	408.2	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°	1313.5	11.8
0°-40°	2499.8	22.5
0°-60°	6564.7	59.0
0°-90°	11129.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11129.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1399	1399	1399	1399	1399	
5°	1369	1393	1460	1429	1369	132
15°	1481	1320	1529	1557	1481	429
25°	2103	964	1291	2077	2103	992
35°	3120	461	833	3153	3120	1933
45°	3347	365	396	4688	3347	2587
55°	3388	311	313	5593	3388	3073
65°	4164	261	265	5897	4164	4192
75°	4108	179	189	2128	4108	4017
85°	613	80	88	169	613	709
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°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1380.0	1384.0	1382.7	1382.7	1385.3	1384.0	1384.0	1385.3	1385.3	1389.3	1394.7
5°	1369.3	1368.0	1365.3	1368.0	1368.0	1368.0	1362.7	1366.7	1368.0	1370.7	1370.7
7.5°	1382.7	1378.7	1373.3	1374.7	1374.7	1372.0	1368.0	1369.3	1368.0	1368.0	1366.7
10°	1400.0	1390.7	1384.0	1384.0	1384.0	1381.3	1374.7	1378.7	1378.7	1377.3	1378.7
12.5°	1430.7	1420.0	1412.0	1409.3	1409.3	1405.3	1400.0	1405.3	1402.7	1402.7	1400.0
15°	1481.3	1469.3	1460.0	1452.0	1453.3	1453.3	1446.7	1442.7	1437.3	1430.7	1417.3
17.5°	1557.3	1544.0	1532.0	1525.3	1526.7	1517.3	1498.7	1480.0	1454.7	1429.3	1401.3
20°	1665.3	1661.3	1645.3	1638.7	1622.7	1600.0	1548.0	1504.0	1454.7	1406.7	1358.7
22.5°	1852.0	1833.3	1817.3	1792.0	1738.7	1676.0	1589.3	1512.0	1434.7	1366.7	1302.7
25°	2102.7	2069.3	1990.7	1913.3	1804.0	1692.0	1574.7	1474.7	1378.7	1289.3	1210.7
27.5°	2349.3	2248.0	2108.0	1968.0	1808.0	1661.3	1514.7	1396.0	1284.0	1186.7	1100.0
30°	2648.0	2477.3	2262.7	2041.3	1814.7	1617.3	1441.3	1302.7	1173.3	1070.7	980.0
32.5°	2928.0	2681.3	2400.0	2109.3	1829.3	1576.0	1357.3	1200.0	1066.7	937.3	848.0
35°	3120.0	2800.0	2458.7	2116.0	1793.3	1497.3	1252.0	1066.7	933.3	813.3	708.0
37.5°	3234.7	2852.0	2461.3	2068.0	1709.3	1390.7	1118.7	934.7	812.0	697.3	614.7
40°	3306.7	2864.0	2426.7	1998.7	1602.7	1256.0	985.3	820.0	708.0	616.0	552.0
42.5°	3341.3	2845.3	2370.7	1910.7	1494.7	1136.0	892.0	736.0	638.7	573.3	525.3
45°	3346.7	2812.0	2310.7	1830.7	1398.7	1049.3	828.0	701.3	621.3	566.7	518.7
47.5°	3346.7	2782.7	2262.7	1772.0	1336.0	1012.0	822.7	716.0	637.3	576.0	518.7
50°	3349.3	2773.3	2242.7	1742.7	1314.7	1032.0	868.0	761.3	672.0	592.0	517.3
52.5°	3361.3	2785.3	2258.7	1765.3	1353.3	1112.0	953.3	829.3	717.3	610.7	517.3
55°	3388.0	2825.3	2326.7	1844.0	1457.3	1233.3	1056.0	902.7	753.3	618.7	509.3
57.5°	3462.7	2926.7	2450.7	1996.0	1634.7	1373.3	1149.3	954.7	766.7	612.0	493.3
60°	3612.0	3128.0	2662.7	2209.3	1822.7	1493.3	1204.0	962.7	754.7	590.7	468.0
62.5°	3850.7	3358.7	2920.0	2441.3	1989.3	1560.0	1210.7	942.7	722.7	552.0	430.7
63°	3933.3	3416.0	2974.7	2485.3	2010.7	1565.3	1205.3	934.7	714.7	541.3	425.3
65°	4164.0	3657.3	3164.0	2640.0	2070.7	1566.7	1176.0	894.7	677.3	500.0	388.0
67.5°	4594.7	3974.7	3402.7	2761.3	2092.0	1524.0	1101.3	820.0	598.7	436.0	341.3
70°	4866.7	4152.0	3494.7	2764.0	2029.3	1402.7	972.0	698.7	498.7	361.3	293.3
72.5°	4796.0	3977.3	3252.0	2514.7	1758.7	1172.0	781.3	549.3	389.3	289.3	244.0
75°	4108.0	3310.7	2653.3	1948.0	1329.3	861.3	572.0	392.0	288.0	226.7	204.0
77.5°	2957.3	2382.7	1902.7	1388.0	896.0	557.3	380.0	280.0	218.7	186.7	168.0
80°	1884.0	1397.3	1164.0	834.7	524.0	345.3	261.3	212.0	180.0	156.0	144.0
82.5°	984.0	689.3	560.0	426.7	290.7	228.0	192.0	173.3	148.0	129.3	122.7
85°	613.3	406.7	301.3	210.7	145.3	130.7	120.0	117.3	105.3	93.3	89.3
87.5°	69.3	62.7	65.3	41.3	30.7	33.3	32.0	42.7	41.3	30.7	32.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1389.3	1392.0	1392.0	1396.0	1396.0	1398.7	1401.3	1401.3	1404.0	1405.3	1408.0
5°	1373.3	1373.3	1373.3	1378.7	1380.0	1388.0	1390.7	1393.3	1396.0	1405.3	1410.7
7.5°	1369.3	1364.0	1366.7	1366.7	1370.7	1377.3	1384.0	1388.0	1392.0	1404.0	1412.0
10°	1377.3	1373.3	1369.3	1369.3	1370.7	1373.3	1378.7	1382.7	1385.3	1397.3	1404.0
12.5°	1398.7	1389.3	1381.3	1374.7	1369.3	1368.0	1365.3	1366.7	1369.3	1376.0	1385.3
15°	1402.7	1385.3	1368.0	1350.7	1337.3	1329.3	1322.7	1320.0	1320.0	1324.0	1334.7
17.5°	1376.0	1346.7	1321.3	1298.7	1284.0	1269.3	1262.7	1257.3	1254.7	1260.0	1261.3
20°	1318.7	1284.0	1249.3	1222.7	1196.0	1192.0	1181.3	1184.0	1186.7	1194.7	1198.7
22.5°	1240.0	1198.7	1156.0	1128.0	1106.7	1088.0	1076.0	1081.3	1085.3	1093.3	1097.3
25°	1144.0	1084.0	1038.7	1010.7	988.0	972.0	958.7	964.0	958.7	968.0	982.7
27.5°	1030.7	960.0	912.0	880.0	864.0	850.7	837.3	837.3	850.7	850.7	862.7
30°	893.3	841.3	778.7	745.3	725.3	717.3	716.0	713.3	722.7	728.0	741.3
32.5°	764.0	700.0	640.0	608.0	590.7	581.3	582.7	584.0	588.0	596.0	617.3
35°	633.3	577.3	534.7	498.7	481.3	464.0	464.0	461.3	465.3	474.7	500.0
37.5°	549.3	500.0	466.7	438.7	421.3	410.7	401.3	397.3	397.3	401.3	410.7
40°	502.7	466.7	436.0	412.0	396.0	386.7	381.3	377.3	374.7	374.7	376.0
42.5°	481.3	444.0	413.3	392.0	380.0	374.7	373.3	372.0	368.0	366.7	365.3
45°	470.7	428.0	393.3	376.0	366.7	364.0	365.3	365.3	364.0	361.3	356.0
47.5°	462.7	413.3	378.7	362.7	358.7	358.7	358.7	358.7	357.3	356.0	352.0
50°	449.3	390.7	353.3	341.3	338.7	338.7	340.0	340.0	342.7	340.0	337.3
52.5°	434.7	369.3	332.0	321.3	320.0	318.7	318.7	318.7	320.0	320.0	318.7
55°	418.7	353.3	321.3	313.3	314.7	313.3	312.0	310.7	310.7	309.3	306.7
57.5°	402.7	340.0	313.3	308.0	309.3	309.3	306.7	304.0	302.7	298.7	296.0
60°	378.7	321.3	297.3	294.7	298.7	298.7	298.7	297.3	297.3	296.0	289.3
62.5°	346.7	294.7	276.0	277.3	278.7	281.3	281.3	281.3	281.3	278.7	272.0
63°	340.0	289.3	272.0	272.0	276.0	276.0	277.3	276.0	277.3	274.7	266.7
65°	313.3	272.0	258.7	260.0	262.7	262.7	262.7	261.3	261.3	257.3	253.3
67.5°	282.7	250.7	242.7	244.0	245.3	248.0	246.7	246.7	248.0	245.3	241.3
70°	248.0	228.0	222.7	224.0	225.3	225.3	224.0	224.0	225.3	222.7	218.7
72.5°	221.3	213.3	209.3	209.3	206.7	206.7	204.0	202.7	201.3	201.3	197.3
75°	186.7	185.3	186.7	189.3	186.7	184.0	182.7	178.7	176.0	176.0	174.7
77.5°	160.0	160.0	162.7	166.7	168.0	168.0	164.0	157.3	156.0	156.0	156.0
80°	138.7	136.0	136.0	140.0	144.0	142.7	136.0	129.3	129.3	136.0	137.3
82.5°	121.3	121.3	117.3	118.7	117.3	116.0	109.3	105.3	104.0	109.3	114.7
85°	96.0	97.3	96.0	94.7	93.3	89.3	84.0	80.0	78.7	84.0	92.0
87.5°	38.7	37.3	36.0	37.3	36.0	38.7	37.3	34.7	33.3	37.3	45.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1409.3	1412.0	1414.7	1414.7	1417.3	1416.0	1417.3	1418.7	1418.7	1420.0	1420.0
5°	1417.3	1421.3	1426.7	1432.0	1433.3	1437.3	1441.3	1438.7	1442.7	1448.0	1448.0
7.5°	1420.0	1429.3	1433.3	1441.3	1442.7	1448.0	1457.3	1450.7	1458.7	1462.7	1464.0
10°	1416.0	1425.3	1432.0	1441.3	1445.3	1454.7	1464.0	1461.3	1470.7	1477.3	1478.7
12.5°	1392.0	1401.3	1416.0	1429.3	1440.0	1454.7	1472.0	1466.7	1480.0	1488.0	1492.0
15°	1345.3	1354.7	1370.7	1392.0	1412.0	1434.7	1457.3	1461.3	1474.7	1484.0	1488.0
17.5°	1272.0	1284.0	1301.3	1324.0	1349.3	1388.0	1417.3	1432.0	1450.7	1456.0	1462.7
20°	1204.0	1216.0	1226.7	1240.0	1258.7	1296.0	1334.7	1364.0	1388.0	1408.0	1413.3
22.5°	1113.3	1124.0	1137.3	1148.0	1161.3	1188.0	1220.0	1253.3	1290.7	1302.7	1316.0
25°	1004.0	1010.7	1029.3	1036.0	1045.3	1068.0	1093.3	1117.3	1153.3	1178.7	1185.3
27.5°	886.7	893.3	910.7	914.7	926.7	948.0	966.7	976.0	1009.3	1036.0	1057.3
30°	750.7	768.0	789.3	792.0	805.3	818.7	836.0	845.3	876.0	904.0	930.7
32.5°	633.3	650.7	668.0	678.7	685.3	696.0	713.3	722.7	752.0	777.3	804.0
35°	513.3	534.7	553.3	568.0	573.3	586.7	600.0	609.3	640.0	662.7	681.3
37.5°	422.7	438.7	458.7	473.3	488.0	497.3	513.3	526.7	545.3	557.3	577.3
40°	378.7	386.7	397.3	409.3	421.3	432.0	444.0	454.7	466.7	482.7	496.0
42.5°	364.0	365.3	365.3	369.3	376.0	381.3	392.0	400.0	408.0	420.0	426.7
45°	353.3	352.0	349.3	346.7	348.0	350.7	357.3	362.7	372.0	377.3	378.7
47.5°	348.0	342.7	337.3	333.3	332.0	333.3	338.7	344.0	349.3	353.3	354.7
50°	330.7	326.7	318.7	313.3	310.7	313.3	320.0	322.7	328.0	332.0	333.3
52.5°	313.3	308.0	302.7	297.3	297.3	298.7	304.0	309.3	314.7	316.0	318.7
55°	302.7	294.7	289.3	285.3	282.7	286.7	290.7	297.3	304.0	305.3	308.0
57.5°	292.0	284.0	278.7	274.7	272.0	276.0	280.0	289.3	297.3	297.3	297.3
60°	285.3	278.7	270.7	266.7	262.7	266.7	272.0	281.3	289.3	288.0	286.7
62.5°	266.7	260.0	256.0	256.0	252.0	258.7	264.0	274.7	276.0	273.3	270.7
63°	261.3	256.0	253.3	253.3	250.7	257.3	262.7	272.0	272.0	269.3	266.7
65°	248.0	244.0	241.3	244.0	244.0	250.7	252.0	258.7	257.3	253.3	252.0
67.5°	237.3	234.7	232.0	232.0	232.0	233.3	234.7	237.3	236.0	234.7	236.0
70°	220.0	218.7	216.0	216.0	214.7	214.7	214.7	216.0	216.0	217.3	218.7
72.5°	198.7	196.0	196.0	197.3	194.7	196.0	197.3	196.0	198.7	198.7	200.0
75°	174.7	173.3	176.0	178.7	177.3	177.3	178.7	178.7	180.0	180.0	181.3
77.5°	156.0	157.3	158.7	161.3	162.7	162.7	162.7	161.3	162.7	162.7	164.0
80°	138.7	141.3	144.0	146.7	148.0	148.0	148.0	146.7	146.7	146.7	146.7
82.5°	125.3	129.3	132.0	133.3	133.3	133.3	133.3	133.3	133.3	130.7	128.0
85°	105.3	113.3	113.3	114.7	110.7	108.0	105.3	106.7	108.0	102.7	101.3
87.5°	53.3	53.3	56.0	58.7	60.0	60.0	68.0	64.0	62.7	61.3	58.7
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: P153520

CATALOG NUMBER: TLM-E04-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1421.3	1420.0	1422.7	1420.0	1421.3	1422.7	1420.0	1424.0	1426.7	1422.7	1418.7
5°	1450.7	1450.7	1457.3	1460.0	1461.3	1469.3	1465.3	1468.0	1470.7	1469.3	1470.7
7.5°	1469.3	1474.7	1481.3	1488.0	1489.3	1496.0	1494.7	1498.7	1501.3	1508.0	1508.0
10°	1485.3	1492.0	1501.3	1508.0	1514.7	1520.0	1522.7	1530.7	1532.0	1537.3	1537.3
12.5°	1500.0	1508.0	1517.3	1528.0	1534.7	1545.3	1546.7	1558.7	1562.7	1564.0	1560.0
15°	1497.3	1506.7	1517.3	1529.3	1541.3	1554.7	1562.7	1574.7	1581.3	1584.0	1577.3
17.5°	1472.0	1480.0	1493.3	1509.3	1524.0	1541.3	1556.0	1573.3	1584.0	1586.7	1585.3
20°	1422.7	1428.0	1445.3	1466.7	1484.0	1510.7	1532.0	1558.7	1576.0	1589.3	1593.3
22.5°	1325.3	1338.7	1356.0	1380.0	1405.3	1438.7	1469.3	1508.0	1545.3	1577.3	1609.3
25°	1208.0	1232.0	1258.7	1290.7	1321.3	1356.0	1390.7	1434.7	1489.3	1556.0	1632.0
27.5°	1089.3	1130.7	1164.0	1205.3	1241.3	1276.0	1314.7	1362.7	1422.7	1502.7	1600.0
30°	969.3	1016.0	1052.0	1100.0	1148.0	1194.7	1233.3	1284.0	1342.7	1424.0	1530.7
32.5°	841.3	888.0	930.7	974.7	1028.0	1084.0	1130.7	1193.3	1256.0	1340.0	1448.0
35°	709.3	750.7	786.7	833.3	892.0	952.0	1013.3	1085.3	1153.3	1241.3	1356.0
37.5°	594.7	624.0	658.7	700.0	745.3	809.3	878.7	964.0	1041.3	1137.3	1254.7
40°	500.0	516.0	536.0	570.7	612.0	674.7	742.7	833.3	926.7	1032.0	1145.3
42.5°	426.7	434.7	440.0	462.7	496.0	557.3	622.7	710.7	813.3	928.0	1042.7
45°	378.7	382.7	384.0	396.0	420.0	473.3	541.3	616.0	714.7	826.7	946.7
47.5°	356.0	360.0	362.7	365.3	380.0	421.3	482.7	553.3	644.0	746.7	869.3
50°	337.3	341.3	345.3	344.0	350.7	377.3	429.3	494.7	580.0	674.7	796.0
52.5°	318.7	321.3	321.3	321.3	325.3	342.7	380.0	440.0	518.7	608.0	728.0
55°	308.0	310.7	312.0	313.3	314.7	324.0	352.0	400.0	468.0	550.7	658.7
57.5°	297.3	298.7	301.3	302.7	305.3	310.7	328.0	362.7	420.0	489.3	580.0
60°	288.0	290.7	296.0	297.3	300.0	301.3	309.3	330.7	368.0	421.3	494.7
62.5°	273.3	277.3	282.7	284.0	286.7	288.0	289.3	301.3	318.7	350.7	405.3
63°	269.3	273.3	280.0	281.3	282.7	282.7	284.0	292.0	308.0	336.0	376.0
65°	254.7	260.0	264.0	265.3	266.7	266.7	265.3	268.0	269.3	281.3	305.3
67.5°	238.7	242.7	245.3	246.7	245.3	246.7	245.3	242.7	240.0	242.7	253.3
70°	222.7	225.3	225.3	226.7	228.0	229.3	226.7	224.0	221.3	220.0	226.7
72.5°	204.0	206.7	206.7	208.0	208.0	210.7	210.7	209.3	209.3	210.7	212.0
75°	185.3	188.0	186.7	189.3	189.3	193.3	193.3	194.7	197.3	196.0	194.7
77.5°	168.0	169.3	169.3	170.7	172.0	178.7	182.7	184.0	184.0	181.3	178.7
80°	149.3	149.3	146.7	145.3	146.7	153.3	161.3	162.7	166.7	165.3	166.7
82.5°	125.3	120.0	116.0	116.0	118.7	122.7	125.3	128.0	130.7	130.7	133.3
85°	96.0	90.7	86.7	88.0	92.0	93.3	92.0	92.0	97.3	101.3	97.3
87.5°	57.3	52.0	49.3	45.3	46.7	50.7	49.3	45.3	46.7	37.3	34.7
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: P153520

CATALOG NUMBER: TLM-E04-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1421.3	1420.0	1417.3	1413.3	1412.0	1409.3	1410.7	1406.7	1404.0	1401.3	1397.3
5°	1470.7	1470.7	1462.7	1462.7	1458.7	1457.3	1448.0	1444.0	1436.0	1438.7	1429.3
7.5°	1505.3	1509.3	1500.0	1498.7	1493.3	1492.0	1480.0	1476.0	1469.3	1466.7	1458.7
10°	1530.7	1530.7	1518.7	1509.3	1502.7	1496.0	1484.0	1478.7	1473.3	1474.7	1469.3
12.5°	1550.7	1541.3	1524.0	1510.7	1501.3	1494.7	1485.3	1481.3	1480.0	1489.3	1490.7
15°	1566.7	1553.3	1532.0	1522.7	1514.7	1513.3	1513.3	1517.3	1526.7	1544.0	1557.3
17.5°	1576.0	1568.0	1557.3	1554.7	1568.0	1576.0	1586.7	1598.7	1612.0	1636.0	1650.7
20°	1593.3	1598.7	1606.7	1617.3	1638.7	1658.7	1672.0	1689.3	1705.3	1734.7	1758.7
22.5°	1638.7	1669.3	1694.7	1716.0	1748.0	1776.0	1793.3	1817.3	1829.3	1849.3	1886.7
25°	1697.3	1760.0	1813.3	1858.7	1908.0	1937.3	1961.3	1992.0	2010.7	2044.0	2077.3
27.5°	1680.0	1769.3	1849.3	1933.3	2001.3	2077.3	2130.7	2181.3	2213.3	2262.7	2306.7
30°	1626.7	1733.3	1841.3	1952.0	2060.0	2169.3	2270.7	2362.7	2433.3	2504.0	2576.0
32.5°	1554.7	1677.3	1809.3	1945.3	2086.7	2238.7	2378.7	2517.3	2634.7	2737.3	2837.3
35°	1472.0	1610.7	1748.0	1916.0	2090.7	2284.0	2478.7	2670.7	2849.3	3030.7	3153.3
37.5°	1373.3	1514.7	1668.0	1861.3	2066.7	2305.3	2553.3	2804.0	3057.3	3301.3	3513.3
40°	1268.0	1412.0	1573.3	1782.7	2014.7	2292.0	2601.3	2938.7	3286.7	3640.0	3921.3
42.5°	1174.7	1322.7	1498.7	1710.7	1962.7	2274.7	2640.0	3054.7	3480.0	3917.3	4330.7
45°	1084.0	1246.7	1432.0	1660.0	1940.0	2288.0	2697.3	3162.7	3653.3	4184.0	4688.0
47.5°	1002.7	1168.0	1348.0	1597.3	1906.7	2294.7	2753.3	3270.7	3817.3	4392.0	4990.7
50°	929.3	1089.3	1266.7	1517.3	1854.7	2290.7	2804.0	3368.0	3958.7	4556.0	5224.0
52.5°	857.3	1020.0	1201.3	1440.0	1790.7	2268.0	2828.0	3448.0	4089.3	4721.3	5412.0
55°	786.7	946.7	1129.3	1366.7	1706.7	2209.3	2825.3	3500.0	4193.3	4877.3	5593.3
57.5°	704.0	856.0	1034.7	1285.3	1617.3	2118.7	2785.3	3524.0	4282.7	5032.0	5810.7
60°	601.3	744.0	916.0	1166.7	1500.0	2002.7	2701.3	3510.7	4334.7	5146.7	5996.0
62.5°	474.7	598.7	756.0	1001.3	1353.3	1836.0	2544.0	3389.3	4252.0	5130.7	6082.7
63°	448.0	565.3	718.7	961.3	1290.7	1790.7	2497.3	3341.3	4212.0	5097.3	6070.7
65°	360.0	436.0	558.7	776.0	1080.0	1568.0	2265.3	3094.7	3997.3	4862.7	5897.3
67.5°	276.0	314.7	380.0	532.0	764.0	1233.3	1834.7	2622.7	3469.3	4282.7	5338.7
70°	236.0	253.3	281.3	353.3	485.3	778.7	1288.0	1956.0	2689.3	3394.7	4344.0
72.5°	214.7	222.7	237.3	268.0	333.3	466.7	821.3	1273.3	1829.3	2420.0	3153.3
75°	197.3	204.0	216.0	232.0	256.0	310.7	468.0	778.7	1189.3	1589.3	2128.0
77.5°	180.0	184.0	197.3	212.0	228.0	256.0	309.3	448.0	684.0	937.3	1282.7
80°	165.3	162.7	172.0	196.0	212.0	228.0	244.0	290.7	389.3	513.3	693.3
82.5°	132.0	134.7	142.7	166.7	173.3	169.3	172.0	180.0	217.3	237.3	354.7
85°	89.3	82.7	81.3	84.0	84.0	80.0	80.0	78.7	86.7	98.7	169.3
87.5°	24.0	12.0	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: P153520

CATALOG NUMBER: TLM-E04-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1394.7	1393.3	1394.7	1388.0	1388.0	1386.7	1385.3	1382.7	1382.7	1377.3	1381.3
5°	1421.3	1418.7	1413.3	1405.3	1401.3	1396.0	1396.0	1390.7	1386.7	1381.3	1382.7
7.5°	1452.0	1453.3	1444.0	1437.3	1434.7	1429.3	1430.7	1422.7	1424.0	1420.0	1417.3
10°	1469.3	1469.3	1472.0	1470.7	1473.3	1473.3	1477.3	1472.0	1469.3	1465.3	1465.3
12.5°	1497.3	1502.7	1513.3	1513.3	1521.3	1524.0	1525.3	1528.0	1522.7	1520.0	1510.7
15°	1566.7	1580.0	1589.3	1602.7	1618.7	1624.0	1624.0	1618.7	1616.0	1612.0	1594.7
17.5°	1681.3	1710.7	1718.7	1740.0	1742.7	1749.3	1768.0	1757.3	1750.7	1722.7	1717.3
20°	1798.7	1836.0	1873.3	1900.0	1913.3	1940.0	1944.0	1938.7	1912.0	1885.3	1873.3
22.5°	1940.0	1996.0	2038.7	2080.0	2100.0	2113.3	2142.7	2136.0	2114.7	2074.7	2058.7
25°	2140.0	2209.3	2254.7	2305.3	2332.0	2345.3	2374.7	2374.7	2352.0	2340.0	2338.7
27.5°	2392.0	2477.3	2552.0	2569.3	2638.7	2654.7	2682.7	2682.7	2661.3	2646.7	2717.3
30°	2672.0	2761.3	2890.7	2977.3	3061.3	3144.0	3142.7	3148.0	3173.3	3186.7	3217.3
32.5°	2952.0	3062.7	3200.0	3388.0	3568.0	3721.3	3920.0	4046.7	4008.0	3900.0	3857.3
35°	3292.0	3414.7	3581.3	3770.7	4100.0	4298.7	4394.7	4462.7	4470.7	4485.3	4516.0
37.5°	3670.7	3876.0	4069.3	4284.0	4466.7	4708.0	4930.7	5109.3	5150.7	5234.7	5186.7
40°	4149.3	4378.7	4581.3	4858.7	5104.0	5394.7	5713.3	5958.7	6057.3	6025.3	5785.3
42.5°	4650.7	4934.7	5172.0	5498.7	5817.3	6201.3	6530.7	6873.3	6934.7	6688.0	6329.3
45°	5112.0	5464.0	5758.7	6098.7	6488.0	6948.0	7388.0	7740.0	7728.0	7305.3	6825.3
47.5°	5526.7	5958.7	6318.7	6761.3	7180.0	7728.0	8233.3	8493.3	8340.0	7840.0	7252.0
50°	5869.3	6408.0	6852.0	7300.0	7832.0	8492.0	8978.7	9125.3	8829.3	8285.3	7666.7
52.5°	6145.3	6821.3	7320.0	7836.0	8508.0	9202.7	9621.3	9566.7	9184.0	8625.3	8009.3
55°	6378.7	7137.3	7732.0	8341.3	9174.7	9814.7	10093.3	9946.7	9412.0	8845.3	8244.0
57.5°	6620.0	7444.0	8110.7	8817.3	9745.3	10294.7	10449.3	10148.0	9520.0	8929.3	8345.3
60°	6861.3	7700.0	8445.3	9233.3	10177.3	10686.7	10644.0	10193.3	9488.0	8868.0	8277.3
62.5°	7024.0	7852.0	8640.0	9489.3	10501.3	10886.7	10625.3	10032.0	9302.7	8626.7	8074.7
63°	7028.0	7857.3	8652.0	9506.7	10537.3	10893.3	10589.3	9974.7	9244.0	8577.3	8014.7
65°	6944.0	7757.3	8545.3	9428.0	10506.7	10740.0	10278.7	9636.0	8909.3	8236.0	7702.7
67.5°	6514.7	7344.0	8040.0	8872.0	9957.3	10024.0	9446.7	8928.0	8274.7	7577.3	7020.0
70°	5649.3	6338.7	7021.3	7716.0	8626.7	8614.7	8072.0	7808.0	7236.0	6441.3	5994.7
72.5°	4493.3	5112.0	5592.0	6057.3	6657.3	6536.0	6186.7	6260.0	5889.3	5296.0	5030.7
75°	3336.0	4016.0	4250.7	4440.0	4693.3	4694.7	4790.7	4998.7	4993.3	4664.0	4329.3
77.5°	2188.0	2932.0	3010.7	3162.7	3466.7	3880.0	4306.7	4765.3	4880.0	4620.0	4125.3
80°	1220.0	1993.3	1902.7	2033.3	2361.3	2922.7	3552.0	4058.7	4357.3	4212.0	3688.0
82.5°	624.0	1149.3	1098.7	1280.0	1545.3	2033.3	2449.3	2838.7	3190.7	3170.7	2972.0
85°	324.0	629.3	716.0	810.7	944.0	1118.7	1276.0	1389.3	1536.0	1794.7	1882.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	96.0	69.3	190.7	272.0
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: P153520

CATALOG NUMBER: TLM-E04-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1382.7	1384.0	1381.3	1381.3	1382.7	1382.7	1380.0
5°	1380.0	1380.0	1377.3	1374.7	1372.0	1372.0	1369.3
7.5°	1410.7	1410.7	1401.3	1397.3	1390.7	1385.3	1382.7
10°	1456.0	1448.0	1437.3	1429.3	1418.7	1406.7	1400.0
12.5°	1501.3	1489.3	1476.0	1464.0	1450.7	1437.3	1430.7
15°	1576.0	1560.0	1542.7	1528.0	1509.3	1489.3	1481.3
17.5°	1690.7	1665.3	1642.7	1621.3	1588.0	1573.3	1557.3
20°	1842.7	1805.3	1776.0	1740.0	1698.7	1685.3	1665.3
22.5°	2026.7	1994.7	1936.0	1909.3	1868.0	1848.0	1852.0
25°	2306.7	2265.3	2197.3	2172.0	2168.0	2124.0	2102.7
27.5°	2672.0	2674.7	2612.0	2544.0	2506.7	2437.3	2349.3
30°	3192.0	3156.0	3082.7	3013.3	2925.3	2794.7	2648.0
32.5°	3821.3	3741.3	3620.0	3490.7	3334.7	3133.3	2928.0
35°	4436.0	4296.0	4102.7	3886.7	3661.3	3410.7	3120.0
37.5°	4976.0	4758.7	4469.3	4221.3	3902.7	3589.3	3234.7
40°	5469.3	5200.0	4826.7	4505.3	4129.3	3726.7	3306.7
42.5°	5946.7	5605.3	5148.0	4713.3	4288.0	3818.7	3341.3
45°	6401.3	5961.3	5418.7	4901.3	4404.0	3878.7	3346.7
47.5°	6750.7	6270.7	5661.3	5037.3	4484.0	3924.0	3346.7
50°	7074.7	6532.0	5846.7	5144.0	4558.7	3954.7	3349.3
52.5°	7326.7	6716.0	5966.7	5220.0	4617.3	3977.3	3361.3
55°	7509.3	6836.0	6046.7	5266.7	4660.0	4009.3	3388.0
57.5°	7637.3	6914.7	6090.7	5308.0	4712.0	4065.3	3462.7
60°	7698.7	7060.0	6164.0	5390.7	4801.3	4184.0	3612.0
62.5°	7652.0	7285.3	6373.3	5530.7	4925.3	4369.3	3850.7
63°	7632.0	7326.7	6430.7	5561.3	4953.3	4409.3	3933.3
65°	7476.0	7368.0	6666.7	5716.0	5086.7	4586.7	4164.0
67.5°	6992.0	7205.3	6865.3	5977.3	5373.3	5017.3	4594.7
70°	6365.3	6964.0	6829.3	6010.7	5556.0	5370.7	4866.7
72.5°	5614.7	6234.7	6109.3	5566.7	5354.7	5374.7	4796.0
75°	4418.7	4884.0	4801.3	4610.7	4653.3	4800.0	4108.0
77.5°	3540.0	3477.3	3286.7	3300.0	3546.7	3718.7	2957.3
80°	2892.0	2341.3	2093.3	2100.0	2530.7	2709.3	1884.0
82.5°	2752.0	2214.7	1804.0	1576.0	1841.3	1773.3	984.0
85°	1960.0	1964.0	1629.3	1324.0	1282.7	1090.7	613.3
87.5°	464.0	372.0	265.3	197.3	208.0	137.3	69.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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