

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: P153519

Luminaire Tested: **TLM-E04-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153519
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10165.4 lumens
Efficiency: N/A
Efficacy: 104.6 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

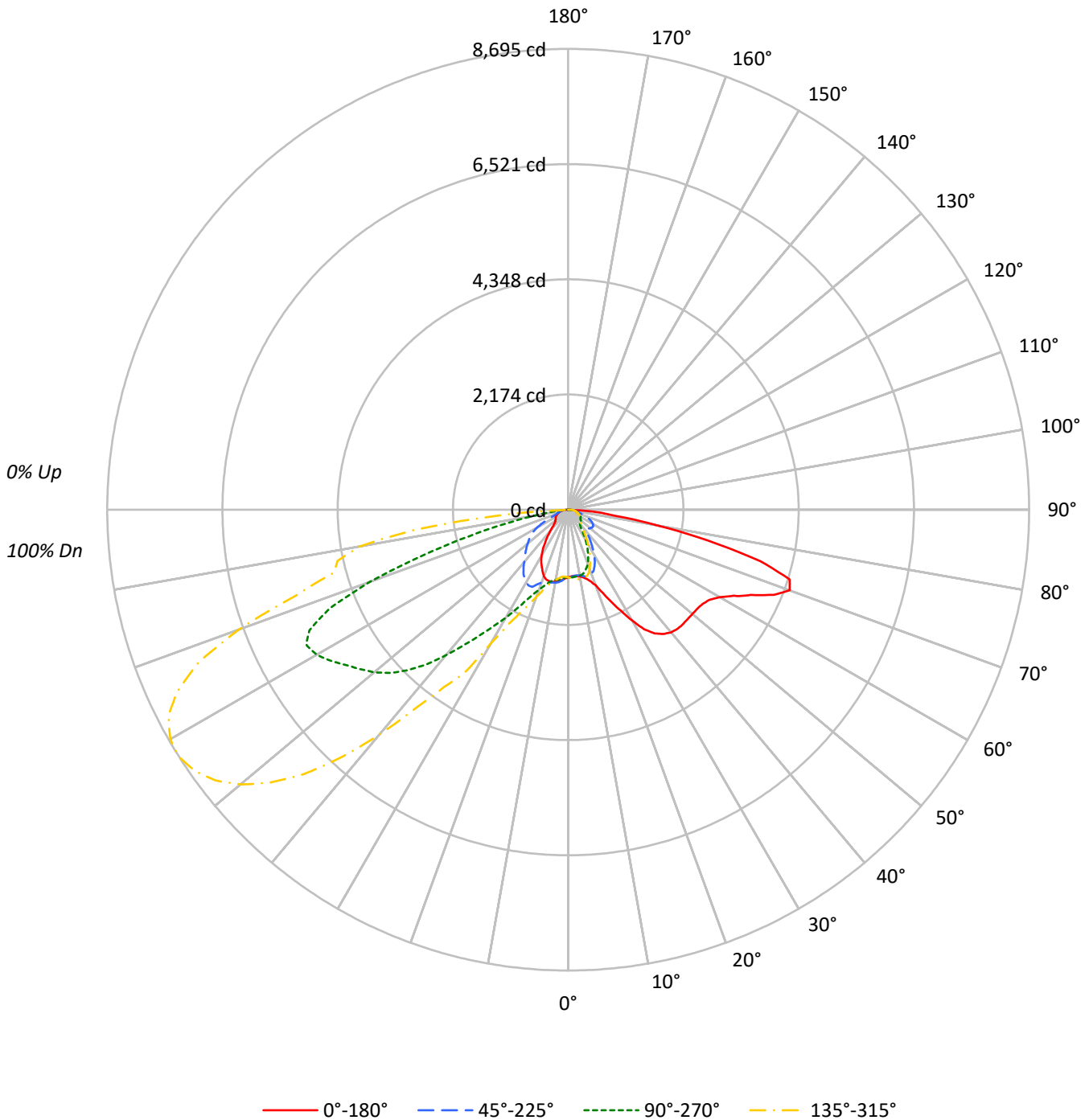
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20524	20524	20524	20524
5°	20170	20523	21505	21054
10°	20860	20602	22468	21893
15°	22503	20052	23232	23658
20°	26004	18488	22903	27462
25°	34043	15608	20896	33632
30°	44867	12086	18638	43647
35°	55889	8265	14927	56486
40°	63338	7227	10931	75114
45°	69449	7582	8218	97283
50°	76458	7760	7853	119252
55°	86672	7946	8016	143092
60°	106000	8727	8727	175963
65°	144576	9074	9211	204757
70°	208793	9611	9723	186368
75°	232896	10130	10732	120644
80°	159205	10926	12277	58592
85°	103262	13475	14820	28516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	387.3	3.8
20°-30°	688.1	6.8
30°-40°	1083.5	10.7
40°-50°	1594.6	15.7
50°-60°	2118.1	20.8
60°-70°	2333.0	23.0
70°-80°	1463.7	14.4
80°-90°	372.8	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°	1199.7	11.8
0°-40°	2283.2	22.5
0°-60°	5995.8	59.0
0°-90°	10165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10165.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1278	1278	1278	1278	1278	
5°	1251	1273	1334	1306	1251	121
15°	1353	1206	1397	1422	1353	392
25°	1920	880	1179	1897	1920	906
35°	2850	421	761	2880	2850	1766
45°	3057	334	362	4282	3057	2363
55°	3094	284	286	5109	3094	2807
65°	3803	239	242	5386	3803	3829
75°	3752	163	173	1944	3752	3669
85°	560	73	80	155	560	648
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°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1260.4	1264.1	1262.9	1262.9	1265.3	1264.1	1264.1	1265.3	1265.3	1268.9	1273.8
5°	1250.7	1249.5	1247.0	1249.5	1249.5	1249.5	1244.6	1248.2	1249.5	1251.9	1251.9
7.5°	1262.9	1259.2	1254.3	1255.6	1255.6	1253.1	1249.5	1250.7	1249.5	1249.5	1248.2
10°	1278.7	1270.2	1264.1	1264.1	1264.1	1261.6	1255.6	1259.2	1259.2	1258.0	1259.2
12.5°	1306.7	1297.0	1289.7	1287.2	1287.2	1283.6	1278.7	1283.6	1281.1	1281.1	1278.7
15°	1353.0	1342.0	1333.5	1326.2	1327.4	1327.4	1321.3	1317.7	1312.8	1306.7	1294.5
17.5°	1422.4	1410.2	1399.3	1393.2	1394.4	1385.9	1368.8	1351.8	1328.6	1305.5	1279.9
20°	1521.0	1517.4	1502.8	1496.7	1482.1	1461.4	1413.9	1373.7	1328.6	1284.8	1240.9
22.5°	1691.5	1674.5	1659.9	1636.7	1588.0	1530.8	1451.6	1381.0	1310.4	1248.2	1189.8
25°	1920.5	1890.0	1818.2	1747.5	1647.7	1545.4	1438.2	1346.9	1259.2	1177.6	1105.8
27.5°	2145.8	2053.2	1925.3	1797.5	1651.3	1517.4	1383.4	1275.0	1172.7	1083.8	1004.7
30°	2418.6	2262.7	2066.6	1864.5	1657.4	1477.2	1316.4	1189.8	1071.7	977.9	895.1
32.5°	2674.3	2449.0	2192.0	1926.6	1670.8	1439.4	1239.7	1096.0	974.2	856.1	774.5
35°	2849.7	2557.4	2245.6	1932.6	1637.9	1367.6	1143.5	974.2	852.5	742.9	646.7
37.5°	2954.4	2604.9	2248.1	1888.8	1561.2	1270.2	1021.7	853.7	741.6	636.9	561.4
40°	3020.1	2615.8	2216.4	1825.5	1463.8	1147.2	900.0	748.9	646.7	562.6	504.2
42.5°	3051.8	2598.8	2165.2	1745.1	1365.2	1037.6	814.7	672.2	583.3	523.7	479.8
45°	3056.7	2568.3	2110.4	1672.0	1277.5	958.4	756.3	640.6	567.5	517.6	473.7
47.5°	3056.7	2541.5	2066.6	1618.5	1220.2	924.3	751.4	654.0	582.1	526.1	473.7
50°	3059.1	2533.0	2048.3	1591.7	1200.8	942.6	792.8	695.4	613.8	540.7	472.5
52.5°	3070.1	2544.0	2063.0	1612.4	1236.1	1015.6	870.7	757.5	655.2	557.8	472.5
55°	3094.4	2580.5	2125.1	1684.2	1331.1	1126.5	964.5	824.5	688.1	565.1	465.2
57.5°	3162.6	2673.1	2238.3	1823.0	1493.0	1254.3	1049.7	871.9	700.2	559.0	450.6
60°	3299.0	2857.0	2431.9	2017.9	1664.7	1363.9	1099.7	879.3	689.3	539.5	427.4
62.5°	3517.0	3067.6	2667.0	2229.8	1817.0	1424.8	1105.8	861.0	660.0	504.2	393.3
63°	3592.5	3120.0	2716.9	2270.0	1836.4	1429.7	1100.9	853.7	652.7	494.4	388.5
65°	3803.2	3340.4	2889.8	2411.2	1891.2	1430.9	1074.1	817.1	618.6	456.7	354.4
67.5°	4196.5	3630.3	3107.8	2522.1	1910.7	1391.9	1005.9	748.9	546.8	398.2	311.8
70°	4445.0	3792.2	3191.9	2524.5	1853.5	1281.1	887.8	638.1	455.5	330.0	267.9
72.5°	4380.4	3632.7	2970.2	2296.8	1606.3	1070.4	713.6	501.7	355.6	264.3	222.9
75°	3752.0	3023.8	2423.4	1779.2	1214.1	786.7	522.4	358.0	263.0	207.0	186.3
77.5°	2701.1	2176.2	1737.8	1267.7	818.4	509.0	347.1	255.7	199.7	170.5	153.4
80°	1720.8	1276.3	1063.1	762.3	478.6	315.4	238.7	193.6	164.4	142.5	131.5
82.5°	898.7	629.6	511.5	389.7	265.5	208.2	175.4	158.3	135.2	118.1	112.0
85°	560.2	371.4	275.2	192.4	132.7	119.3	109.6	107.2	96.2	85.2	81.6
87.5°	63.3	57.2	59.7	37.8	28.0	30.4	29.2	39.0	37.8	28.0	29.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1268.9	1271.4	1271.4	1275.0	1275.0	1277.5	1279.9	1279.9	1282.3	1283.6	1286.0
5°	1254.3	1254.3	1254.3	1259.2	1260.4	1267.7	1270.2	1272.6	1275.0	1283.6	1288.4
7.5°	1250.7	1245.8	1248.2	1248.2	1251.9	1258.0	1264.1	1267.7	1271.4	1282.3	1289.7
10°	1258.0	1254.3	1250.7	1250.7	1251.9	1254.3	1259.2	1262.9	1265.3	1276.3	1282.3
12.5°	1277.5	1268.9	1261.6	1255.6	1250.7	1249.5	1247.0	1248.2	1250.7	1256.8	1265.3
15°	1281.1	1265.3	1249.5	1233.6	1221.5	1214.1	1208.1	1205.6	1205.6	1209.3	1219.0
17.5°	1256.8	1230.0	1206.8	1186.1	1172.7	1159.3	1153.3	1148.4	1146.0	1150.8	1152.0
20°	1204.4	1172.7	1141.1	1116.7	1092.4	1088.7	1079.0	1081.4	1083.8	1091.1	1094.8
22.5°	1132.6	1094.8	1055.8	1030.3	1010.8	993.7	982.8	987.6	991.3	998.6	1002.2
25°	1044.9	990.1	948.7	923.1	902.4	887.8	875.6	880.5	875.6	884.1	897.5
27.5°	941.4	876.8	833.0	803.7	789.1	777.0	764.8	764.8	777.0	777.0	787.9
30°	815.9	768.4	711.2	680.8	662.5	655.2	654.0	651.5	660.0	664.9	677.1
32.5°	697.8	639.3	584.5	555.3	539.5	531.0	532.2	533.4	537.0	544.4	563.8
35°	578.5	527.3	488.3	455.5	439.6	423.8	423.8	421.4	425.0	433.5	456.7
37.5°	501.7	456.7	426.2	400.7	384.8	375.1	366.6	362.9	362.9	366.6	375.1
40°	459.1	426.2	398.2	376.3	361.7	353.2	348.3	344.6	342.2	342.2	343.4
42.5°	439.6	405.5	377.5	358.0	347.1	342.2	341.0	339.8	336.1	334.9	333.7
45°	429.9	390.9	359.3	343.4	334.9	332.5	333.7	333.7	332.5	330.0	325.2
47.5°	422.6	377.5	345.9	331.2	327.6	327.6	327.6	327.6	326.4	325.2	321.5
50°	410.4	356.8	322.7	311.8	309.3	309.3	310.5	310.5	313.0	310.5	308.1
52.5°	397.0	337.3	303.2	293.5	292.3	291.1	291.1	291.1	292.3	292.3	291.1
55°	382.4	322.7	293.5	286.2	287.4	286.2	285.0	283.7	283.7	282.5	280.1
57.5°	367.8	310.5	286.2	281.3	282.5	282.5	280.1	277.7	276.4	272.8	270.4
60°	345.9	293.5	271.6	269.1	272.8	272.8	272.8	271.6	271.6	270.4	264.3
62.5°	316.6	269.1	252.1	253.3	254.5	257.0	257.0	257.0	257.0	254.5	248.4
63°	310.5	264.3	248.4	248.4	252.1	252.1	253.3	252.1	253.3	250.9	243.6
65°	286.2	248.4	236.3	237.5	239.9	239.9	239.9	238.7	238.7	235.0	231.4
67.5°	258.2	228.9	221.6	222.9	224.1	226.5	225.3	225.3	226.5	224.1	220.4
70°	226.5	208.2	203.4	204.6	205.8	205.8	204.6	204.6	205.8	203.4	199.7
72.5°	202.2	194.8	191.2	191.2	188.8	188.8	186.3	185.1	183.9	183.9	180.2
75°	170.5	169.3	170.5	172.9	170.5	168.1	166.8	163.2	160.7	160.7	159.5
77.5°	146.1	146.1	148.6	152.2	153.4	153.4	149.8	143.7	142.5	142.5	142.5
80°	126.7	124.2	124.2	127.9	131.5	130.3	124.2	118.1	118.1	124.2	125.4
82.5°	110.8	110.8	107.2	108.4	107.2	105.9	99.9	96.2	95.0	99.9	104.7
85°	87.7	88.9	87.7	86.5	85.2	81.6	76.7	73.1	71.9	76.7	84.0
87.5°	35.3	34.1	32.9	34.1	32.9	35.3	34.1	31.7	30.4	34.1	41.4
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°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1287.2	1289.7	1292.1	1292.1	1294.5	1293.3	1294.5	1295.7	1295.7	1297.0	1297.0
5°	1294.5	1298.2	1303.0	1307.9	1309.1	1312.8	1316.4	1314.0	1317.7	1322.5	1322.5
7.5°	1297.0	1305.5	1309.1	1316.4	1317.7	1322.5	1331.1	1325.0	1332.3	1335.9	1337.1
10°	1293.3	1301.8	1307.9	1316.4	1320.1	1328.6	1337.1	1334.7	1343.2	1349.3	1350.5
12.5°	1271.4	1279.9	1293.3	1305.5	1315.2	1328.6	1344.5	1339.6	1351.8	1359.1	1362.7
15°	1228.8	1237.3	1251.9	1271.4	1289.7	1310.4	1331.1	1334.7	1346.9	1355.4	1359.1
17.5°	1161.8	1172.7	1188.6	1209.3	1232.4	1267.7	1294.5	1307.9	1325.0	1329.8	1335.9
20°	1099.7	1110.6	1120.4	1132.6	1149.6	1183.7	1219.0	1245.8	1267.7	1286.0	1290.9
22.5°	1016.9	1026.6	1038.8	1048.5	1060.7	1085.1	1114.3	1144.7	1178.8	1189.8	1202.0
25°	917.0	923.1	940.1	946.2	954.8	975.5	998.6	1020.5	1053.4	1076.5	1082.6
27.5°	809.8	815.9	831.8	835.4	846.4	865.9	882.9	891.4	921.9	946.2	965.7
30°	685.6	701.5	720.9	723.4	735.6	747.7	763.6	772.1	800.1	825.7	850.0
32.5°	578.5	594.3	610.1	619.9	625.9	635.7	651.5	660.0	686.8	710.0	734.3
35°	468.9	488.3	505.4	518.8	523.7	535.8	548.0	556.5	584.5	605.2	622.3
37.5°	386.0	400.7	418.9	432.3	445.7	454.2	468.9	481.0	498.1	509.0	527.3
40°	345.9	353.2	362.9	373.9	384.8	394.6	405.5	415.3	426.2	440.8	453.0
42.5°	332.5	333.7	333.7	337.3	343.4	348.3	358.0	365.3	372.6	383.6	389.7
45°	322.7	321.5	319.1	316.6	317.8	320.3	326.4	331.2	339.8	344.6	345.9
47.5°	317.8	313.0	308.1	304.5	303.2	304.5	309.3	314.2	319.1	322.7	323.9
50°	302.0	298.4	291.1	286.2	283.7	286.2	292.3	294.7	299.6	303.2	304.5
52.5°	286.2	281.3	276.4	271.6	271.6	272.8	277.7	282.5	287.4	288.6	291.1
55°	276.4	269.1	264.3	260.6	258.2	261.8	265.5	271.6	277.7	278.9	281.3
57.5°	266.7	259.4	254.5	250.9	248.4	252.1	255.7	264.3	271.6	271.6	271.6
60°	260.6	254.5	247.2	243.6	239.9	243.6	248.4	257.0	264.3	263.0	261.8
62.5°	243.6	237.5	233.8	233.8	230.2	236.3	241.1	250.9	252.1	249.6	247.2
63°	238.7	233.8	231.4	231.4	228.9	235.0	239.9	248.4	248.4	246.0	243.6
65°	226.5	222.9	220.4	222.9	222.9	228.9	230.2	236.3	235.0	231.4	230.2
67.5°	216.8	214.3	211.9	211.9	211.9	213.1	214.3	216.8	215.6	214.3	215.6
70°	200.9	199.7	197.3	197.3	196.1	196.1	196.1	197.3	197.3	198.5	199.7
72.5°	181.5	179.0	179.0	180.2	177.8	179.0	180.2	179.0	181.5	181.5	182.7
75°	159.5	158.3	160.7	163.2	162.0	162.0	163.2	163.2	164.4	164.4	165.6
77.5°	142.5	143.7	144.9	147.4	148.6	148.6	148.6	147.4	148.6	148.6	149.8
80°	126.7	129.1	131.5	134.0	135.2	135.2	135.2	134.0	134.0	134.0	134.0
82.5°	114.5	118.1	120.6	121.8	121.8	121.8	121.8	121.8	121.8	119.3	116.9
85°	96.2	103.5	103.5	104.7	101.1	98.6	96.2	97.4	98.6	93.8	92.6
87.5°	48.7	48.7	51.1	53.6	54.8	54.8	62.1	58.5	57.2	56.0	53.6
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: P153519

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1298.2	1297.0	1299.4	1297.0	1298.2	1299.4	1297.0	1300.6	1303.0	1299.4	1295.7
5°	1325.0	1325.0	1331.1	1333.5	1334.7	1342.0	1338.4	1340.8	1343.2	1342.0	1343.2
7.5°	1342.0	1346.9	1353.0	1359.1	1360.3	1366.4	1365.2	1368.8	1371.2	1377.3	1377.3
10°	1356.6	1362.7	1371.2	1377.3	1383.4	1388.3	1390.7	1398.0	1399.3	1404.1	1404.1
12.5°	1370.0	1377.3	1385.9	1395.6	1401.7	1411.4	1412.6	1423.6	1427.3	1428.5	1424.8
15°	1367.6	1376.1	1385.9	1396.8	1407.8	1420.0	1427.3	1438.2	1444.3	1446.7	1440.7
17.5°	1344.5	1351.8	1363.9	1378.6	1391.9	1407.8	1421.2	1437.0	1446.7	1449.2	1448.0
20°	1299.4	1304.3	1320.1	1339.6	1355.4	1379.8	1399.3	1423.6	1439.4	1451.6	1455.3
22.5°	1210.5	1222.7	1238.5	1260.4	1283.6	1314.0	1342.0	1377.3	1411.4	1440.7	1469.9
25°	1103.3	1125.2	1149.6	1178.8	1206.8	1238.5	1270.2	1310.4	1360.3	1421.2	1490.6
27.5°	994.9	1032.7	1063.1	1100.9	1133.8	1165.4	1200.8	1244.6	1299.4	1372.5	1461.4
30°	885.3	928.0	960.8	1004.7	1048.5	1091.1	1126.5	1172.7	1226.3	1300.6	1398.0
32.5°	768.4	811.1	850.0	890.2	938.9	990.1	1032.7	1089.9	1147.2	1223.9	1322.5
35°	647.9	685.6	718.5	761.1	814.7	869.5	925.5	991.3	1053.4	1133.8	1238.5
37.5°	543.1	569.9	601.6	639.3	680.8	739.2	802.5	880.5	951.1	1038.8	1146.0
40°	456.7	471.3	489.6	521.2	559.0	616.2	678.3	761.1	846.4	942.6	1046.1
42.5°	389.7	397.0	401.9	422.6	453.0	509.0	568.7	649.1	742.9	847.6	952.3
45°	345.9	349.5	350.7	361.7	383.6	432.3	494.4	562.6	652.7	755.0	864.6
47.5°	325.2	328.8	331.2	333.7	347.1	384.8	440.8	505.4	588.2	682.0	794.0
50°	308.1	311.8	315.4	314.2	320.3	344.6	392.1	451.8	529.7	616.2	727.0
52.5°	291.1	293.5	293.5	293.5	297.1	313.0	347.1	401.9	473.7	555.3	664.9
55°	281.3	283.7	285.0	286.2	287.4	295.9	321.5	365.3	427.4	503.0	601.6
57.5°	271.6	272.8	275.2	276.4	278.9	283.7	299.6	331.2	383.6	446.9	529.7
60°	263.0	265.5	270.4	271.6	274.0	275.2	282.5	302.0	336.1	384.8	451.8
62.5°	249.6	253.3	258.2	259.4	261.8	263.0	264.3	275.2	291.1	320.3	370.2
63°	246.0	249.6	255.7	257.0	258.2	258.2	259.4	266.7	281.3	306.9	343.4
65°	232.6	237.5	241.1	242.3	243.6	243.6	242.3	244.8	246.0	257.0	278.9
67.5°	218.0	221.6	224.1	225.3	224.1	225.3	224.1	221.6	219.2	221.6	231.4
70°	203.4	205.8	205.8	207.0	208.2	209.5	207.0	204.6	202.2	200.9	207.0
72.5°	186.3	188.8	188.8	190.0	190.0	192.4	192.4	191.2	191.2	192.4	193.6
75°	169.3	171.7	170.5	172.9	172.9	176.6	176.6	177.8	180.2	179.0	177.8
77.5°	153.4	154.7	154.7	155.9	157.1	163.2	166.8	168.1	168.1	165.6	163.2
80°	136.4	136.4	134.0	132.7	134.0	140.0	147.4	148.6	152.2	151.0	152.2
82.5°	114.5	109.6	105.9	105.9	108.4	112.0	114.5	116.9	119.3	119.3	121.8
85°	87.7	82.8	79.2	80.4	84.0	85.2	84.0	84.0	88.9	92.6	88.9
87.5°	52.4	47.5	45.1	41.4	42.6	46.3	45.1	41.4	42.6	34.1	31.7
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: P153519

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1298.2	1297.0	1294.5	1290.9	1289.7	1287.2	1288.4	1284.8	1282.3	1279.9	1276.3
5°	1343.2	1343.2	1335.9	1335.9	1332.3	1331.1	1322.5	1318.9	1311.6	1314.0	1305.5
7.5°	1374.9	1378.6	1370.0	1368.8	1363.9	1362.7	1351.8	1348.1	1342.0	1339.6	1332.3
10°	1398.0	1398.0	1387.1	1378.6	1372.5	1366.4	1355.4	1350.5	1345.7	1346.9	1342.0
12.5°	1416.3	1407.8	1391.9	1379.8	1371.2	1365.2	1356.6	1353.0	1351.8	1360.3	1361.5
15°	1430.9	1418.7	1399.3	1390.7	1383.4	1382.2	1382.2	1385.9	1394.4	1410.2	1422.4
17.5°	1439.4	1432.1	1422.4	1420.0	1432.1	1439.4	1449.2	1460.1	1472.3	1494.2	1507.6
20°	1455.3	1460.1	1467.4	1477.2	1496.7	1514.9	1527.1	1543.0	1557.6	1584.4	1606.3
22.5°	1496.7	1524.7	1547.8	1567.3	1596.5	1622.1	1637.9	1659.9	1670.8	1689.1	1723.2
25°	1550.3	1607.5	1656.2	1697.6	1742.7	1769.5	1791.4	1819.4	1836.4	1866.9	1897.3
27.5°	1534.4	1616.0	1689.1	1765.8	1827.9	1897.3	1946.0	1992.3	2021.5	2066.6	2106.8
30°	1485.7	1583.1	1681.8	1782.9	1881.5	1981.4	2073.9	2157.9	2222.5	2287.0	2352.8
32.5°	1420.0	1532.0	1652.6	1776.8	1905.9	2044.7	2172.6	2299.2	2406.4	2500.1	2591.5
35°	1344.5	1471.1	1596.5	1750.0	1909.5	2086.1	2263.9	2439.3	2602.4	2768.1	2880.1
37.5°	1254.3	1383.4	1523.5	1700.0	1887.6	2105.6	2332.1	2561.0	2792.4	3015.3	3208.9
40°	1158.1	1289.7	1437.0	1628.2	1840.1	2093.4	2375.9	2684.0	3001.9	3324.6	3581.6
42.5°	1072.9	1208.1	1368.8	1562.4	1792.6	2077.6	2411.2	2790.0	3178.5	3577.9	3955.4
45°	990.1	1138.6	1307.9	1516.2	1771.9	2089.7	2463.6	2888.6	3336.8	3821.5	4281.8
47.5°	915.8	1066.8	1231.2	1458.9	1741.5	2095.8	2514.8	2987.3	3486.6	4011.4	4558.2
50°	848.8	994.9	1156.9	1385.9	1694.0	2092.2	2561.0	3076.2	3615.6	4161.2	4771.3
52.5°	783.0	931.6	1097.2	1315.2	1635.5	2071.5	2583.0	3149.2	3735.0	4312.2	4943.1
55°	718.5	864.6	1031.5	1248.2	1558.8	2017.9	2580.5	3196.7	3830.0	4454.7	5108.7
57.5°	643.0	781.8	945.0	1174.0	1477.2	1935.1	2544.0	3218.6	3911.6	4596.0	5307.2
60°	549.2	679.5	836.6	1065.6	1370.0	1829.1	2467.3	3206.5	3959.1	4700.7	5476.4
62.5°	433.5	546.8	690.5	914.6	1236.1	1676.9	2323.6	3095.6	3883.6	4686.1	5555.6
63°	409.2	516.3	656.4	878.0	1178.8	1635.5	2280.9	3051.8	3847.0	4655.7	5544.6
65°	328.8	398.2	510.3	708.8	986.4	1432.1	2069.0	2826.5	3651.0	4441.3	5386.3
67.5°	252.1	287.4	347.1	485.9	697.8	1126.5	1675.7	2395.4	3168.7	3911.6	4876.1
70°	215.6	231.4	257.0	322.7	443.3	711.2	1176.4	1786.5	2456.3	3100.5	3967.6
72.5°	196.1	203.4	216.8	244.8	304.5	426.2	750.2	1163.0	1670.8	2210.3	2880.1
75°	180.2	186.3	197.3	211.9	233.8	283.7	427.4	711.2	1086.3	1451.6	1943.6
77.5°	164.4	168.1	180.2	193.6	208.2	233.8	282.5	409.2	624.7	856.1	1171.5
80°	151.0	148.6	157.1	179.0	193.6	208.2	222.9	265.5	355.6	468.9	633.3
82.5°	120.6	123.0	130.3	152.2	158.3	154.7	157.1	164.4	198.5	216.8	323.9
85°	81.6	75.5	74.3	76.7	76.7	73.1	73.1	71.9	79.2	90.1	154.7
87.5°	21.9	11.0	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: P153519

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1273.8	1272.6	1273.8	1267.7	1267.7	1266.5	1265.3	1262.9	1262.9	1258.0	1261.6
5°	1298.2	1295.7	1290.9	1283.6	1279.9	1275.0	1275.0	1270.2	1266.5	1261.6	1262.9
7.5°	1326.2	1327.4	1318.9	1312.8	1310.4	1305.5	1306.7	1299.4	1300.6	1297.0	1294.5
10°	1342.0	1342.0	1344.5	1343.2	1345.7	1345.7	1349.3	1344.5	1342.0	1338.4	1338.4
12.5°	1367.6	1372.5	1382.2	1382.2	1389.5	1391.9	1393.2	1395.6	1390.7	1388.3	1379.8
15°	1430.9	1443.1	1451.6	1463.8	1478.4	1483.3	1483.3	1478.4	1476.0	1472.3	1456.5
17.5°	1535.6	1562.4	1569.7	1589.2	1591.7	1597.8	1614.8	1605.1	1599.0	1573.4	1568.5
20°	1642.8	1676.9	1711.0	1735.4	1747.5	1771.9	1775.6	1770.7	1746.3	1722.0	1711.0
22.5°	1771.9	1823.0	1862.0	1899.8	1918.0	1930.2	1957.0	1950.9	1931.4	1894.9	1880.3
25°	1954.6	2017.9	2059.3	2105.6	2129.9	2142.1	2168.9	2168.9	2148.2	2137.2	2136.0
27.5°	2184.7	2262.7	2330.9	2346.7	2410.0	2424.6	2450.2	2450.2	2430.7	2417.3	2481.9
30°	2440.5	2522.1	2640.2	2719.3	2796.1	2871.6	2870.4	2875.2	2898.4	2910.5	2938.6
32.5°	2696.2	2797.3	2922.7	3094.4	3258.8	3398.9	3580.3	3696.0	3660.7	3562.1	3523.1
35°	3006.7	3118.8	3271.0	3443.9	3744.7	3926.2	4013.9	4076.0	4083.3	4096.7	4124.7
37.5°	3352.6	3540.1	3716.7	3912.8	4079.6	4300.1	4503.4	4666.6	4704.4	4781.1	4737.2
40°	3789.8	3999.3	4184.4	4437.7	4661.7	4927.2	5218.3	5442.4	5532.5	5503.2	5284.0
42.5°	4247.7	4507.1	4723.8	5022.2	5313.3	5664.0	5964.8	6277.8	6333.8	6108.5	5780.9
45°	4669.0	4990.5	5259.7	5570.2	5925.8	6346.0	6747.8	7069.3	7058.4	6672.3	6233.9
47.5°	5047.8	5442.4	5771.2	6175.5	6557.9	7058.4	7519.9	7757.4	7617.3	7160.7	6623.6
50°	5360.8	5852.7	6258.3	6667.5	7153.4	7756.2	8200.7	8334.6	8064.3	7567.4	7002.4
52.5°	5612.8	6230.3	6685.7	7157.0	7770.8	8405.3	8787.6	8737.7	8388.2	7878.0	7315.3
55°	5826.0	6518.9	7062.0	7618.6	8379.7	8964.2	9218.7	9084.8	8596.5	8078.9	7529.7
57.5°	6046.4	6799.0	7407.9	8053.3	8900.9	9402.6	9543.9	9268.7	8695.1	8155.6	7622.2
60°	6266.8	7032.8	7713.5	8433.3	9295.5	9760.7	9721.7	9310.1	8665.9	8099.6	7560.1
62.5°	6415.4	7171.6	7891.3	8667.1	9591.4	9943.3	9704.7	9162.7	8496.6	7879.2	7375.0
63°	6419.0	7176.5	7902.3	8682.9	9624.3	9949.4	9671.8	9110.4	8443.0	7834.1	7320.2
65°	6342.3	7085.2	7804.9	8611.1	9596.3	9809.4	9388.0	8801.0	8137.3	7522.4	7035.2
67.5°	5950.2	6707.6	7343.3	8103.2	9094.5	9155.4	8628.1	8154.4	7557.7	6920.8	6411.7
70°	5159.8	5789.4	6412.9	7047.4	7879.2	7868.2	7372.6	7131.4	6609.0	5883.2	5475.2
72.5°	4104.0	4669.0	5107.5	5532.5	6080.5	5969.7	5650.6	5717.6	5379.0	4837.1	4594.8
75°	3046.9	3668.0	3882.3	4055.3	4286.7	4287.9	4375.6	4565.5	4560.7	4259.9	3954.2
77.5°	1998.4	2677.9	2749.8	2888.6	3166.3	3543.8	3933.5	4352.4	4457.1	4219.7	3767.9
80°	1114.3	1820.6	1737.8	1857.1	2156.7	2669.4	3244.2	3707.0	3979.8	3847.0	3368.4
82.5°	569.9	1049.7	1003.5	1169.1	1411.4	1857.1	2237.1	2592.7	2914.2	2895.9	2714.5
85°	295.9	574.8	654.0	740.4	862.2	1021.7	1165.4	1268.9	1402.9	1639.2	1719.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	87.7	63.3	174.1	248.4
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: P153519

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1262.9	1264.1	1261.6	1261.6	1262.9	1262.9	1260.4
5°	1260.4	1260.4	1258.0	1255.6	1253.1	1253.1	1250.7
7.5°	1288.4	1288.4	1279.9	1276.3	1270.2	1265.3	1262.9
10°	1329.8	1322.5	1312.8	1305.5	1295.7	1284.8	1278.7
12.5°	1371.2	1360.3	1348.1	1337.1	1325.0	1312.8	1306.7
15°	1439.4	1424.8	1409.0	1395.6	1378.6	1360.3	1353.0
17.5°	1544.2	1521.0	1500.3	1480.8	1450.4	1437.0	1422.4
20°	1683.0	1648.9	1622.1	1589.2	1551.5	1539.3	1521.0
22.5°	1851.1	1821.8	1768.2	1743.9	1706.1	1687.9	1691.5
25°	2106.8	2069.0	2006.9	1983.8	1980.1	1940.0	1920.5
27.5°	2440.5	2442.9	2385.7	2323.6	2289.5	2226.1	2145.8
30°	2915.4	2882.5	2815.6	2752.2	2671.9	2552.5	2418.6
32.5°	3490.2	3417.1	3306.3	3188.2	3045.7	2861.8	2674.3
35°	4051.6	3923.8	3747.2	3549.9	3344.1	3115.1	2849.7
37.5°	4544.8	4346.3	4082.1	3855.6	3564.5	3278.3	2954.4
40°	4995.4	4749.4	4408.4	4114.9	3771.5	3403.8	3020.1
42.5°	5431.4	5119.6	4701.9	4304.9	3916.4	3487.8	3051.8
45°	5846.7	5444.8	4949.1	4476.6	4022.4	3542.6	3056.7
47.5°	6165.7	5727.3	5170.8	4600.9	4095.5	3584.0	3056.7
50°	6461.6	5966.0	5340.1	4698.3	4163.7	3612.0	3059.1
52.5°	6691.8	6134.1	5449.7	4767.7	4217.2	3632.7	3070.1
55°	6858.7	6243.7	5522.7	4810.3	4256.2	3661.9	3094.4
57.5°	6975.6	6315.5	5562.9	4848.1	4303.7	3713.1	3162.6
60°	7031.6	6448.3	5629.9	4923.6	4385.3	3821.5	3299.0
62.5°	6989.0	6654.1	5821.1	5051.4	4498.6	3990.7	3517.0
63°	6970.7	6691.8	5873.5	5079.4	4524.1	4027.3	3592.5
65°	6828.2	6729.6	6089.0	5220.7	4645.9	4189.2	3803.2
67.5°	6386.1	6581.0	6270.5	5459.4	4907.7	4582.6	4196.5
70°	5813.8	6360.6	6237.6	5489.8	5074.6	4905.3	4445.0
72.5°	5128.2	5694.4	5580.0	5084.3	4890.7	4909.0	4380.4
75°	4035.8	4460.8	4385.3	4211.2	4250.1	4384.1	3752.0
77.5°	3233.3	3176.0	3001.9	3014.1	3239.3	3396.4	2701.1
80°	2641.4	2138.5	1911.9	1918.0	2311.4	2474.6	1720.8
82.5°	2513.5	2022.8	1647.7	1439.4	1681.8	1619.7	898.7
85°	1790.2	1793.8	1488.2	1209.3	1171.5	996.2	560.2
87.5°	423.8	339.8	242.3	180.2	190.0	125.4	63.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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