

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: P153521

Luminaire Tested: **TLM-E04-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153521
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-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

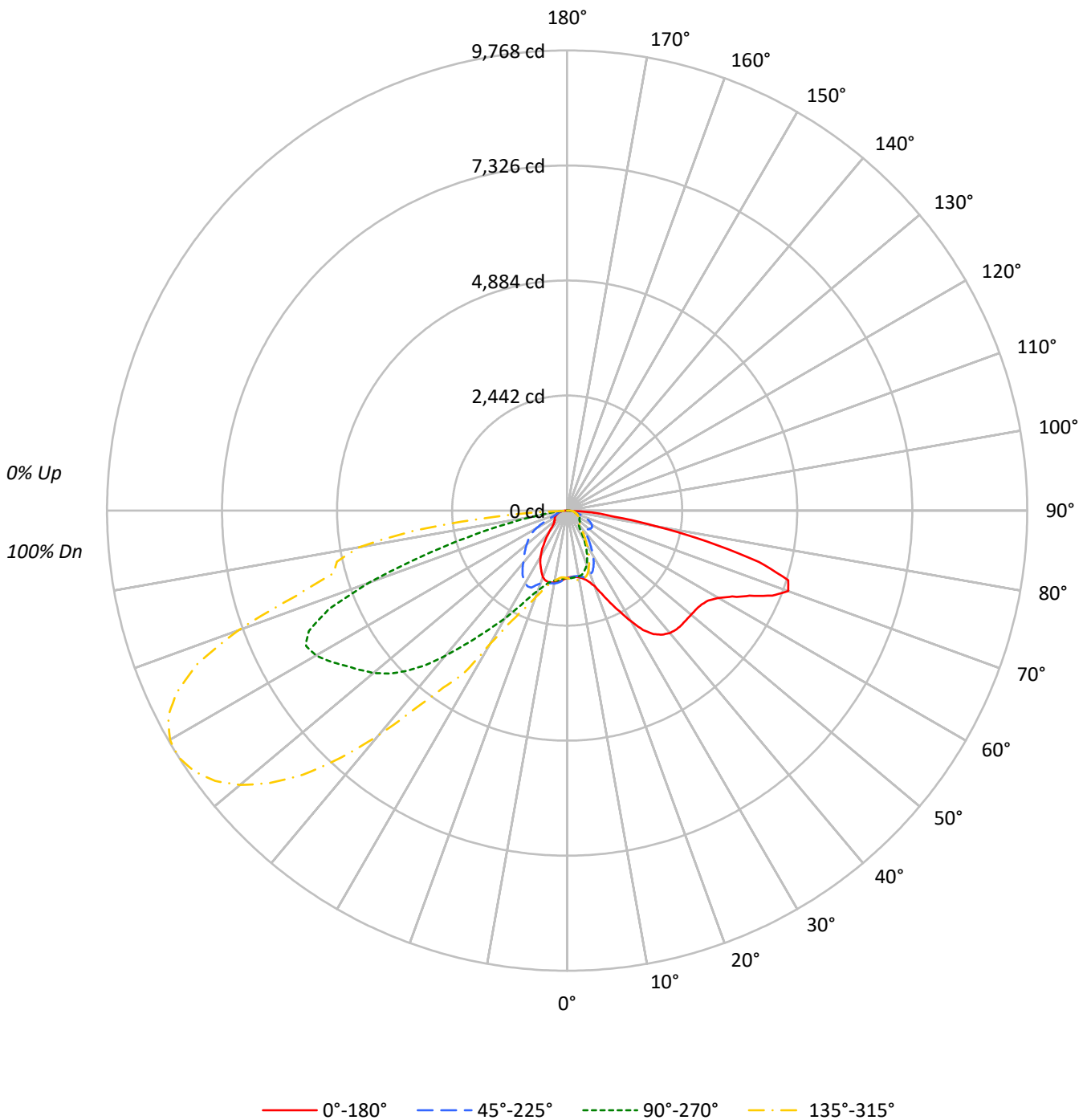
Lumens per Lamp: N/A
Luminaire Lumens: 11420.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

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	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°	23057	23057	23057	23057
5°	22660	23057	24160	23652
10°	23434	23145	25243	24596
15°	25281	22528	26101	26578
20°	29215	20771	25730	30853
25°	38246	17535	23477	37786
30°	50405	13579	20938	49034
35°	62787	9285	16771	63460
40°	71158	8120	12281	84385
45°	78021	8518	9231	109293
50°	85898	8720	8823	133975
55°	97372	8929	9005	160754
60°	119087	9803	9803	197687
65°	162424	10195	10351	230036
70°	234567	10794	10926	209375
75°	261648	11378	12061	135542
80°	178855	12277	13794	65817
85°	116000	15134	16645	32037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.2
10°-20°	435.1	3.8
20°-30°	773.0	6.8
30°-40°	1217.3	10.7
40°-50°	1791.4	15.7
50°-60°	2379.5	20.8
60°-70°	2621.1	23.0
70°-80°	1644.4	14.4
80°-90°	418.8	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°	1347.8	11.8
0°-40°	2565.1	22.5
0°-60°	6736.0	59.0
0°-90°	11420.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11420.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1435	1435	1435	1435	1435	
5°	1405	1430	1498	1467	1405	135
15°	1520	1354	1569	1598	1520	440
25°	2158	989	1324	2132	2158	1018
35°	3201	473	855	3236	3201	1984
45°	3434	375	406	4810	3434	2655
55°	3476	319	322	5739	3476	3153
65°	4273	268	272	6051	4273	4302
75°	4215	183	194	2184	4215	4122
85°	629	82	90	174	629	728
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1416.0	1420.1	1418.8	1418.8	1421.5	1420.1	1420.1	1421.5	1421.5	1425.6	1431.1
5°	1405.1	1403.7	1401.0	1403.7	1403.7	1403.7	1398.2	1402.3	1403.7	1406.4	1406.4
7.5°	1418.8	1414.7	1409.2	1410.6	1410.6	1407.8	1403.7	1405.1	1403.7	1403.7	1402.3
10°	1436.5	1427.0	1420.1	1420.1	1420.1	1417.4	1410.6	1414.7	1414.7	1413.3	1414.7
12.5°	1468.0	1457.1	1448.9	1446.1	1446.1	1442.0	1436.5	1442.0	1439.3	1439.3	1436.5
15°	1520.0	1507.7	1498.1	1489.9	1491.3	1491.3	1484.4	1480.3	1474.9	1468.0	1454.3
17.5°	1598.0	1584.3	1572.0	1565.2	1566.5	1556.9	1537.8	1518.6	1492.6	1466.6	1437.9
20°	1708.8	1704.7	1688.3	1681.4	1665.0	1641.8	1588.4	1543.3	1492.6	1443.4	1394.1
22.5°	1900.3	1881.2	1864.8	1838.8	1784.1	1719.8	1630.8	1551.5	1472.1	1402.3	1336.7
25°	2157.6	2123.4	2042.6	1963.3	1851.1	1736.2	1615.8	1513.2	1414.7	1323.0	1242.3
27.5°	2410.7	2306.7	2163.0	2019.4	1855.2	1704.7	1554.2	1432.4	1317.5	1217.6	1128.7
30°	2717.1	2542.0	2321.7	2094.6	1862.0	1659.6	1479.0	1336.7	1204.0	1098.6	1005.6
32.5°	3004.4	2751.3	2462.7	2164.4	1877.1	1617.1	1392.8	1231.3	1094.5	961.8	870.1
35°	3201.4	2873.1	2522.9	2171.2	1840.1	1536.4	1284.7	1094.5	957.7	834.6	726.5
37.5°	3319.1	2926.5	2525.6	2122.0	1754.0	1427.0	1147.9	959.1	833.2	715.5	630.7
40°	3393.0	2938.8	2490.0	2050.8	1644.5	1288.8	1011.1	841.4	726.5	632.1	566.4
42.5°	3428.6	2919.6	2432.6	1960.5	1533.7	1165.7	915.3	755.2	655.3	588.3	539.0
45°	3434.0	2885.4	2371.0	1878.5	1435.2	1076.7	849.6	719.6	637.6	581.5	532.2
47.5°	3434.0	2855.3	2321.7	1818.3	1370.9	1038.4	844.1	734.7	654.0	591.0	532.2
50°	3436.8	2845.7	2301.2	1788.2	1349.0	1058.9	890.7	781.2	689.5	607.5	530.8
52.5°	3449.1	2858.0	2317.6	1811.4	1388.7	1141.0	978.2	851.0	736.1	626.6	530.8
55°	3476.4	2899.1	2387.4	1892.1	1495.4	1265.5	1083.6	926.2	773.0	634.8	522.6
57.5°	3553.1	3003.1	2514.6	2048.1	1677.3	1409.2	1179.3	979.6	786.7	628.0	506.2
60°	3706.3	3209.7	2732.2	2267.0	1870.2	1532.3	1235.4	987.8	774.4	606.1	480.2
62.5°	3951.2	3446.3	2996.2	2505.1	2041.3	1600.7	1242.3	967.3	741.5	566.4	441.9
63°	4036.0	3505.2	3052.3	2550.2	2063.2	1606.2	1236.8	959.1	733.3	555.5	436.4
65°	4272.7	3752.8	3246.6	2708.9	2124.7	1607.6	1206.7	918.0	695.0	513.1	398.1
67.5°	4714.6	4078.4	3491.5	2833.4	2146.6	1563.8	1130.1	841.4	614.3	447.4	350.2
70°	4993.7	4260.4	3585.9	2836.2	2082.3	1439.3	997.4	716.9	511.7	370.8	301.0
72.5°	4921.2	4081.2	3336.9	2580.3	1804.6	1202.6	801.7	563.7	399.5	296.9	250.4
75°	4215.2	3397.1	2722.6	1998.9	1364.0	883.8	586.9	402.2	295.5	232.6	209.3
77.5°	3034.5	2444.9	1952.3	1424.2	919.4	571.9	389.9	287.3	224.4	191.5	172.4
80°	1933.2	1433.8	1194.4	856.5	537.7	354.3	268.2	217.5	184.7	160.1	147.8
82.5°	1009.7	707.3	574.6	437.8	298.3	234.0	197.0	177.9	151.9	132.7	125.9
85°	629.3	417.3	309.2	216.2	149.1	134.1	123.1	120.4	108.1	95.8	91.7
87.5°	71.1	64.3	67.0	42.4	31.5	34.2	32.8	43.8	42.4	31.5	32.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1425.6	1428.3	1428.3	1432.4	1432.4	1435.2	1437.9	1437.9	1440.7	1442.0	1444.8
5°	1409.2	1409.2	1409.2	1414.7	1416.0	1424.2	1427.0	1429.7	1432.4	1442.0	1447.5
7.5°	1405.1	1399.6	1402.3	1402.3	1406.4	1413.3	1420.1	1424.2	1428.3	1440.7	1448.9
10°	1413.3	1409.2	1405.1	1405.1	1406.4	1409.2	1414.7	1418.8	1421.5	1433.8	1440.7
12.5°	1435.2	1425.6	1417.4	1410.6	1405.1	1403.7	1401.0	1402.3	1405.1	1411.9	1421.5
15°	1439.3	1421.5	1403.7	1385.9	1372.2	1364.0	1357.2	1354.5	1354.5	1358.6	1369.5
17.5°	1411.9	1381.8	1355.8	1332.6	1317.5	1302.5	1295.6	1290.2	1287.4	1292.9	1294.3
20°	1353.1	1317.5	1281.9	1254.6	1227.2	1223.1	1212.2	1214.9	1217.6	1225.9	1230.0
22.5°	1272.4	1230.0	1186.2	1157.4	1135.6	1116.4	1104.1	1109.6	1113.7	1121.9	1126.0
25°	1173.9	1112.3	1065.8	1037.1	1013.8	997.4	983.7	989.2	983.7	993.3	1008.3
27.5°	1057.6	985.1	935.8	903.0	886.6	872.9	859.2	859.2	872.9	872.9	885.2
30°	916.7	863.3	799.0	764.8	744.3	736.1	734.7	732.0	741.5	747.0	760.7
32.5°	783.9	718.3	656.7	623.9	606.1	596.5	597.9	599.2	603.4	611.6	633.4
35°	649.9	592.4	548.6	511.7	493.9	476.1	476.1	473.4	477.5	487.1	513.1
37.5°	563.7	513.1	478.8	450.1	432.3	421.4	411.8	407.7	407.7	411.8	421.4
40°	515.8	478.8	447.4	422.8	406.3	396.8	391.3	387.2	384.4	384.4	385.8
42.5°	493.9	455.6	424.1	402.2	389.9	384.4	383.1	381.7	377.6	376.2	374.9
45°	483.0	439.2	403.6	385.8	376.2	373.5	374.9	374.9	373.5	370.8	365.3
47.5°	474.7	424.1	388.6	372.1	368.0	368.0	368.0	368.0	366.7	365.3	361.2
50°	461.1	400.9	362.6	350.2	347.5	347.5	348.9	348.9	351.6	348.9	346.1
52.5°	446.0	379.0	340.7	329.7	328.4	327.0	327.0	327.0	328.4	328.4	327.0
55°	429.6	362.6	329.7	321.5	322.9	321.5	320.1	318.8	318.8	317.4	314.7
57.5°	413.2	348.9	321.5	316.0	317.4	317.4	314.7	311.9	310.6	306.5	303.7
60°	388.6	329.7	305.1	302.4	306.5	306.5	306.5	305.1	305.1	303.7	296.9
62.5°	355.7	302.4	283.2	284.6	285.9	288.7	288.7	288.7	288.7	285.9	279.1
63°	348.9	296.9	279.1	279.1	283.2	283.2	284.6	283.2	284.6	281.8	273.6
65°	321.5	279.1	265.4	266.8	269.5	269.5	269.5	268.2	268.2	264.1	259.9
67.5°	290.0	257.2	249.0	250.4	251.7	254.5	253.1	253.1	254.5	251.7	247.6
70°	254.5	234.0	228.5	229.8	231.2	231.2	229.8	229.8	231.2	228.5	224.4
72.5°	227.1	218.9	214.8	214.8	212.1	212.1	209.3	208.0	206.6	206.6	202.5
75°	191.5	190.2	191.5	194.3	191.5	188.8	187.4	183.3	180.6	180.6	179.2
77.5°	164.2	164.2	166.9	171.0	172.4	172.4	168.3	161.4	160.1	160.1	160.1
80°	142.3	139.6	139.6	143.7	147.8	146.4	139.6	132.7	132.7	139.6	140.9
82.5°	124.5	124.5	120.4	121.8	120.4	119.0	112.2	108.1	106.7	112.2	117.7
85°	98.5	99.9	98.5	97.1	95.8	91.7	86.2	82.1	80.7	86.2	94.4
87.5°	39.7	38.3	36.9	38.3	36.9	39.7	38.3	35.6	34.2	38.3	46.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1446.1	1448.9	1451.6	1451.6	1454.3	1453.0	1454.3	1455.7	1455.7	1457.1	1457.1
5°	1454.3	1458.4	1463.9	1469.4	1470.8	1474.9	1479.0	1476.2	1480.3	1485.8	1485.8
7.5°	1457.1	1466.6	1470.8	1479.0	1480.3	1485.8	1495.4	1488.5	1496.7	1500.9	1502.2
10°	1453.0	1462.5	1469.4	1479.0	1483.1	1492.6	1502.2	1499.5	1509.1	1515.9	1517.3
12.5°	1428.3	1437.9	1453.0	1466.6	1477.6	1492.6	1510.4	1505.0	1518.6	1526.8	1530.9
15°	1380.5	1390.0	1406.4	1428.3	1448.9	1472.1	1495.4	1499.5	1513.2	1522.7	1526.8
17.5°	1305.2	1317.5	1335.3	1358.6	1384.6	1424.2	1454.3	1469.4	1488.5	1494.0	1500.9
20°	1235.4	1247.7	1258.7	1272.4	1291.5	1329.8	1369.5	1399.6	1424.2	1444.8	1450.2
22.5°	1142.4	1153.3	1167.0	1178.0	1191.7	1219.0	1251.8	1286.1	1324.4	1336.7	1350.4
25°	1030.2	1037.1	1056.2	1063.0	1072.6	1095.9	1121.9	1146.5	1183.4	1209.4	1216.3
27.5°	909.8	916.7	934.4	938.5	950.9	972.7	991.9	1001.5	1035.7	1063.0	1084.9
30°	770.3	788.0	809.9	812.7	826.4	840.0	857.8	867.4	898.9	927.6	955.0
32.5°	649.9	667.7	685.4	696.4	703.2	714.2	732.0	741.5	771.6	797.6	825.0
35°	526.7	548.6	567.8	582.8	588.3	602.0	615.7	625.2	656.7	680.0	699.1
37.5°	433.7	450.1	470.6	485.7	500.7	510.3	526.7	540.4	559.6	571.9	592.4
40°	388.6	396.8	407.7	420.0	432.3	443.3	455.6	466.5	478.8	495.3	508.9
42.5°	373.5	374.9	374.9	379.0	385.8	391.3	402.2	410.4	418.7	431.0	437.8
45°	362.6	361.2	358.5	355.7	357.1	359.8	366.7	372.1	381.7	387.2	388.6
47.5°	357.1	351.6	346.1	342.0	340.7	342.0	347.5	353.0	358.5	362.6	363.9
50°	339.3	335.2	327.0	321.5	318.8	321.5	328.4	331.1	336.6	340.7	342.0
52.5°	321.5	316.0	310.6	305.1	305.1	306.5	311.9	317.4	322.9	324.2	327.0
55°	310.6	302.4	296.9	292.8	290.0	294.2	298.3	305.1	311.9	313.3	316.0
57.5°	299.6	291.4	285.9	281.8	279.1	283.2	287.3	296.9	305.1	305.1	305.1
60°	292.8	285.9	277.7	273.6	269.5	273.6	279.1	288.7	296.9	295.5	294.2
62.5°	273.6	266.8	262.7	262.7	258.6	265.4	270.9	281.8	283.2	280.5	277.7
63°	268.2	262.7	259.9	259.9	257.2	264.1	269.5	279.1	279.1	276.4	273.6
65°	254.5	250.4	247.6	250.4	250.4	257.2	258.6	265.4	264.1	259.9	258.6
67.5°	243.5	240.8	238.1	238.1	238.1	239.4	240.8	243.5	242.2	240.8	242.2
70°	225.7	224.4	221.6	221.6	220.3	220.3	220.3	221.6	221.6	223.0	224.4
72.5°	203.9	201.1	201.1	202.5	199.7	201.1	202.5	201.1	203.9	203.9	205.2
75°	179.2	177.9	180.6	183.3	182.0	182.0	183.3	183.3	184.7	184.7	186.1
77.5°	160.1	161.4	162.8	165.5	166.9	166.9	166.9	165.5	166.9	166.9	168.3
80°	142.3	145.0	147.8	150.5	151.9	151.9	151.9	150.5	150.5	150.5	150.5
82.5°	128.6	132.7	135.4	136.8	136.8	136.8	136.8	136.8	136.8	134.1	131.3
85°	108.1	116.3	116.3	117.7	113.6	110.8	108.1	109.5	110.8	105.3	104.0
87.5°	54.7	54.7	57.5	60.2	61.6	61.6	69.8	65.7	64.3	62.9	60.2
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: P153521

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1458.4	1457.1	1459.8	1457.1	1458.4	1459.8	1457.1	1461.2	1463.9	1459.8	1455.7
5°	1488.5	1488.5	1495.4	1498.1	1499.5	1507.7	1503.6	1506.3	1509.1	1507.7	1509.1
7.5°	1507.7	1513.2	1520.0	1526.8	1528.2	1535.1	1533.7	1537.8	1540.5	1547.4	1547.4
10°	1524.1	1530.9	1540.5	1547.4	1554.2	1559.7	1562.4	1570.6	1572.0	1577.5	1577.5
12.5°	1539.2	1547.4	1556.9	1567.9	1574.7	1585.7	1587.0	1599.4	1603.5	1604.8	1600.7
15°	1536.4	1546.0	1556.9	1569.3	1581.6	1595.3	1603.5	1615.8	1622.6	1625.4	1618.5
17.5°	1510.4	1518.6	1532.3	1548.7	1563.8	1581.6	1596.6	1614.4	1625.4	1628.1	1626.7
20°	1459.8	1465.3	1483.1	1505.0	1522.7	1550.1	1572.0	1599.4	1617.1	1630.8	1634.9
22.5°	1359.9	1373.6	1391.4	1416.0	1442.0	1476.2	1507.7	1547.4	1585.7	1618.5	1651.3
25°	1239.5	1264.2	1291.5	1324.4	1355.8	1391.4	1427.0	1472.1	1528.2	1596.6	1674.6
27.5°	1117.8	1160.2	1194.4	1236.8	1273.7	1309.3	1349.0	1398.2	1459.8	1541.9	1641.8
30°	994.6	1042.5	1079.5	1128.7	1178.0	1225.9	1265.5	1317.5	1377.7	1461.2	1570.6
32.5°	863.3	911.2	955.0	1000.1	1054.8	1112.3	1160.2	1224.5	1288.8	1375.0	1485.8
35°	727.9	770.3	807.2	855.1	915.3	976.9	1039.8	1113.7	1183.4	1273.7	1391.4
37.5°	610.2	640.3	675.9	718.3	764.8	830.5	901.6	989.2	1068.5	1167.0	1287.4
40°	513.1	529.5	550.0	585.6	628.0	692.3	762.1	855.1	950.9	1058.9	1175.2
42.5°	437.8	446.0	451.5	474.7	508.9	571.9	638.9	729.2	834.6	952.2	1069.9
45°	388.6	392.7	394.0	406.3	431.0	485.7	555.5	632.1	733.3	848.2	971.4
47.5°	365.3	369.4	372.1	374.9	389.9	432.3	495.3	567.8	660.8	766.2	892.0
50°	346.1	350.2	354.3	353.0	359.8	387.2	440.5	507.6	595.1	692.3	816.8
52.5°	327.0	329.7	329.7	329.7	333.8	351.6	389.9	451.5	532.2	623.9	747.0
55°	316.0	318.8	320.1	321.5	322.9	332.5	361.2	410.4	480.2	565.0	675.9
57.5°	305.1	306.5	309.2	310.6	313.3	318.8	336.6	372.1	431.0	502.1	595.1
60°	295.5	298.3	303.7	305.1	307.8	309.2	317.4	339.3	377.6	432.3	507.6
62.5°	280.5	284.6	290.0	291.4	294.2	295.5	296.9	309.2	327.0	359.8	415.9
63°	276.4	280.5	287.3	288.7	290.0	290.0	291.4	299.6	316.0	344.8	385.8
65°	261.3	266.8	270.9	272.3	273.6	273.6	272.3	275.0	276.4	288.7	313.3
67.5°	244.9	249.0	251.7	253.1	251.7	253.1	251.7	249.0	246.3	249.0	259.9
70°	228.5	231.2	231.2	232.6	234.0	235.3	232.6	229.8	227.1	225.7	232.6
72.5°	209.3	212.1	212.1	213.4	213.4	216.2	216.2	214.8	214.8	216.2	217.5
75°	190.2	192.9	191.5	194.3	194.3	198.4	198.4	199.7	202.5	201.1	199.7
77.5°	172.4	173.8	173.8	175.1	176.5	183.3	187.4	188.8	188.8	186.1	183.3
80°	153.2	153.2	150.5	149.1	150.5	157.3	165.5	166.9	171.0	169.6	171.0
82.5°	128.6	123.1	119.0	119.0	121.8	125.9	128.6	131.3	134.1	134.1	136.8
85°	98.5	93.0	88.9	90.3	94.4	95.8	94.4	94.4	99.9	104.0	99.9
87.5°	58.8	53.4	50.6	46.5	47.9	52.0	50.6	46.5	47.9	38.3	35.6
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: P153521

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1458.4	1457.1	1454.3	1450.2	1448.9	1446.1	1447.5	1443.4	1440.7	1437.9	1433.8
5°	1509.1	1509.1	1500.9	1500.9	1496.7	1495.4	1485.8	1481.7	1473.5	1476.2	1466.6
7.5°	1544.6	1548.7	1539.2	1537.8	1532.3	1530.9	1518.6	1514.5	1507.7	1505.0	1496.7
10°	1570.6	1570.6	1558.3	1548.7	1541.9	1535.1	1522.7	1517.3	1511.8	1513.2	1507.7
12.5°	1591.1	1581.6	1563.8	1550.1	1540.5	1533.7	1524.1	1520.0	1518.6	1528.2	1529.6
15°	1607.6	1593.9	1572.0	1562.4	1554.2	1552.8	1552.8	1556.9	1566.5	1584.3	1598.0
17.5°	1617.1	1608.9	1598.0	1595.3	1608.9	1617.1	1628.1	1640.4	1654.1	1678.7	1693.8
20°	1634.9	1640.4	1648.6	1659.6	1681.4	1702.0	1715.6	1733.4	1749.9	1780.0	1804.6
22.5°	1681.4	1712.9	1738.9	1760.8	1793.6	1822.4	1840.1	1864.8	1877.1	1897.6	1935.9
25°	1741.6	1805.9	1860.7	1907.2	1957.8	1987.9	2012.5	2044.0	2063.2	2097.4	2131.6
27.5°	1723.9	1815.5	1897.6	1983.8	2053.6	2131.6	2186.3	2238.3	2271.1	2321.7	2366.9
30°	1669.1	1778.6	1889.4	2003.0	2113.8	2226.0	2329.9	2424.3	2496.9	2569.4	2643.2
32.5°	1595.3	1721.1	1856.6	1996.1	2141.1	2297.1	2440.8	2583.0	2703.4	2808.8	2911.4
35°	1510.4	1652.7	1793.6	1966.0	2145.2	2343.6	2543.4	2740.4	2923.7	3109.8	3235.7
37.5°	1409.2	1554.2	1711.5	1909.9	2120.6	2365.5	2620.0	2877.2	3137.1	3387.5	3605.1
40°	1301.1	1448.9	1614.4	1829.2	2067.3	2351.8	2669.2	3015.4	3372.5	3735.0	4023.7
42.5°	1205.3	1357.2	1537.8	1755.3	2013.9	2334.0	2708.9	3134.4	3570.8	4019.6	4443.7
45°	1112.3	1279.2	1469.4	1703.3	1990.6	2347.7	2767.7	3245.2	3748.7	4293.2	4810.4
47.5°	1028.8	1198.5	1383.2	1639.0	1956.4	2354.6	2825.2	3356.0	3917.0	4506.7	5121.0
50°	953.6	1117.8	1299.7	1556.9	1903.1	2350.5	2877.2	3455.9	4062.0	4674.9	5360.4
52.5°	879.7	1046.6	1232.7	1477.6	1837.4	2327.2	2901.8	3538.0	4196.1	4844.6	5553.3
55°	807.2	971.4	1158.8	1402.3	1751.2	2267.0	2899.1	3591.4	4302.8	5004.7	5739.3
57.5°	722.4	878.3	1061.7	1318.9	1659.6	2174.0	2858.0	3616.0	4394.5	5163.4	5962.4
60°	617.0	763.4	939.9	1197.1	1539.2	2054.9	2771.9	3602.3	4447.8	5281.0	6152.5
62.5°	487.1	614.3	775.7	1027.5	1388.7	1883.9	2610.4	3477.8	4363.0	5264.6	6241.5
63°	459.7	580.1	737.4	986.4	1324.4	1837.4	2562.5	3428.6	4322.0	5230.4	6229.1
65°	369.4	447.4	573.3	796.3	1108.2	1608.9	2324.5	3175.5	4101.7	4989.6	6051.3
67.5°	283.2	322.9	389.9	545.9	783.9	1265.5	1882.6	2691.1	3559.9	4394.5	5478.0
70°	242.2	259.9	288.7	362.6	498.0	799.0	1321.6	2007.1	2759.5	3483.3	4457.4
72.5°	220.3	228.5	243.5	275.0	342.0	478.8	842.8	1306.6	1877.1	2483.2	3235.7
75°	202.5	209.3	221.6	238.1	262.7	318.8	480.2	799.0	1220.4	1630.8	2183.6
77.5°	184.7	188.8	202.5	217.5	234.0	262.7	317.4	459.7	701.9	961.8	1316.2
80°	169.6	166.9	176.5	201.1	217.5	234.0	250.4	298.3	399.5	526.7	711.4
82.5°	135.4	138.2	146.4	171.0	177.9	173.8	176.5	184.7	223.0	243.5	363.9
85°	91.7	84.8	83.5	86.2	86.2	82.1	82.1	80.7	88.9	101.2	173.8
87.5°	24.6	12.3	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: P153521

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1431.1	1429.7	1431.1	1424.2	1424.2	1422.9	1421.5	1418.8	1418.8	1413.3	1417.4
5°	1458.4	1455.7	1450.2	1442.0	1437.9	1432.4	1432.4	1427.0	1422.9	1417.4	1418.8
7.5°	1489.9	1491.3	1481.7	1474.9	1472.1	1466.6	1468.0	1459.8	1461.2	1457.1	1454.3
10°	1507.7	1507.7	1510.4	1509.1	1511.8	1511.8	1515.9	1510.4	1507.7	1503.6	1503.6
12.5°	1536.4	1541.9	1552.8	1552.8	1561.0	1563.8	1565.2	1567.9	1562.4	1559.7	1550.1
15°	1607.6	1621.2	1630.8	1644.5	1660.9	1666.4	1666.4	1660.9	1658.2	1654.1	1636.3
17.5°	1725.2	1755.3	1763.5	1785.4	1788.2	1795.0	1814.2	1803.2	1796.4	1767.6	1762.2
20°	1845.6	1883.9	1922.2	1949.6	1963.3	1990.6	1994.7	1989.3	1961.9	1934.6	1922.2
22.5°	1990.6	2048.1	2091.9	2134.3	2154.8	2168.5	2198.6	2191.8	2169.9	2128.8	2112.4
25°	2195.9	2267.0	2313.5	2365.5	2392.9	2406.6	2436.7	2436.7	2413.4	2401.1	2399.7
27.5°	2454.4	2542.0	2618.6	2636.4	2707.6	2724.0	2752.7	2752.7	2730.8	2715.8	2788.3
30°	2741.8	2833.4	2966.1	3055.1	3141.3	3226.1	3224.7	3230.2	3256.2	3269.9	3301.3
32.5°	3029.1	3142.6	3283.5	3476.4	3661.1	3818.5	4022.3	4152.3	4112.6	4001.8	3958.0
35°	3377.9	3503.8	3674.8	3869.1	4207.0	4410.9	4509.4	4579.2	4587.4	4602.4	4633.9
37.5°	3766.5	3977.2	4175.6	4395.8	4583.3	4830.9	5059.4	5242.7	5285.1	5371.3	5322.1
40°	4257.7	4493.0	4700.9	4985.5	5237.2	5535.5	5862.5	6114.2	6215.5	6182.6	5936.4
42.5°	4772.1	5063.5	5307.0	5642.2	5969.2	6363.2	6701.2	7052.8	7115.7	6862.6	6494.6
45°	5245.5	5606.6	5909.0	6257.9	6657.4	7129.4	7580.9	7942.1	7929.7	7496.0	7003.5
47.5°	5670.9	6114.2	6483.6	6937.8	7367.4	7929.7	8448.3	8715.1	8557.7	8044.7	7441.3
50°	6022.6	6575.3	7030.9	7490.6	8036.5	8713.7	9213.1	9363.6	9059.8	8501.6	7866.8
52.5°	6305.8	6999.4	7511.1	8040.6	8730.1	9442.9	9872.5	9816.4	9423.8	8850.5	8218.4
55°	6545.2	7323.7	7933.8	8559.1	9414.2	10070.9	10356.8	10206.3	9657.7	9076.2	8459.2
57.5°	6792.8	7638.3	8322.4	9047.5	9999.7	10563.4	10722.1	10412.9	9768.5	9162.4	8563.2
60°	7040.5	7901.0	8665.8	9474.4	10443.0	10965.6	10921.9	10459.4	9735.7	9099.5	8493.4
62.5°	7207.4	8057.0	8865.6	9737.1	10775.5	11170.9	10902.7	10293.9	9545.5	8851.9	8285.5
63°	7211.5	8062.5	8877.9	9754.8	10812.4	11177.7	10865.8	10235.1	9485.3	8801.2	8223.9
65°	7125.3	7959.8	8768.4	9674.1	10780.9	11020.4	10547.0	9887.6	9141.9	8451.0	7903.7
67.5°	6684.7	7535.7	8249.9	9103.6	10217.3	10285.7	9693.3	9161.1	8490.7	7775.1	7203.3
70°	5796.8	6504.1	7204.6	7917.4	8851.9	8839.6	8282.7	8011.8	7424.9	6609.5	6151.2
72.5°	4610.6	5245.5	5738.0	6215.5	6831.1	6706.6	6348.2	6423.4	6043.1	5434.3	5162.0
75°	3423.1	4120.8	4361.6	4555.9	4815.9	4817.2	4915.7	5129.2	5123.7	4785.8	4442.4
77.5°	2245.1	3008.5	3089.3	3245.2	3557.2	3981.3	4419.1	4889.7	5007.4	4740.6	4233.0
80°	1251.8	2045.4	1952.3	2086.4	2423.0	2999.0	3644.7	4164.6	4471.1	4322.0	3784.3
82.5°	640.3	1179.3	1127.3	1313.4	1585.7	2086.4	2513.3	2912.8	3274.0	3253.4	3049.6
85°	332.5	645.8	734.7	831.8	968.6	1147.9	1309.3	1425.6	1576.1	1841.5	1931.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	98.5	71.1	195.6	279.1
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: P153521

CATALOG NUMBER: TLM-E04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1418.8	1420.1	1417.4	1417.4	1418.8	1418.8	1416.0
5°	1416.0	1416.0	1413.3	1410.6	1407.8	1407.8	1405.1
7.5°	1447.5	1447.5	1437.9	1433.8	1427.0	1421.5	1418.8
10°	1494.0	1485.8	1474.9	1466.6	1455.7	1443.4	1436.5
12.5°	1540.5	1528.2	1514.5	1502.2	1488.5	1474.9	1468.0
15°	1617.1	1600.7	1582.9	1567.9	1548.7	1528.2	1520.0
17.5°	1734.8	1708.8	1685.5	1663.7	1629.5	1614.4	1598.0
20°	1890.8	1852.5	1822.4	1785.4	1743.0	1729.3	1708.8
22.5°	2079.6	2046.7	1986.5	1959.2	1916.8	1896.2	1900.3
25°	2366.9	2324.5	2254.7	2228.7	2224.6	2179.4	2157.6
27.5°	2741.8	2744.5	2680.2	2610.4	2572.1	2501.0	2410.7
30°	3275.3	3238.4	3163.1	3092.0	3001.7	2867.6	2717.1
32.5°	3921.1	3839.0	3714.5	3581.8	3421.7	3215.1	3004.4
35°	4551.8	4408.1	4209.8	3988.1	3756.9	3499.7	3201.4
37.5°	5105.9	4882.9	4586.0	4331.5	4004.5	3683.0	3319.1
40°	5612.1	5335.7	4952.7	4622.9	4237.1	3824.0	3393.0
42.5°	6101.9	5751.7	5282.4	4836.4	4399.9	3918.4	3428.6
45°	6568.4	6117.0	5560.1	5029.3	4519.0	3979.9	3434.0
47.5°	6926.9	6434.4	5809.1	5168.8	4601.1	4026.4	3434.0
50°	7259.4	6702.5	5999.3	5278.3	4677.7	4057.9	3436.8
52.5°	7517.9	6891.3	6122.4	5356.3	4737.9	4081.2	3449.1
55°	7705.4	7014.5	6204.5	5404.2	4781.7	4114.0	3476.4
57.5°	7836.7	7095.2	6249.7	5446.6	4835.0	4171.5	3553.1
60°	7899.6	7244.3	6324.9	5531.4	4926.7	4293.2	3706.3
62.5°	7851.8	7475.5	6539.7	5675.0	5053.9	4483.4	3951.2
63°	7831.2	7517.9	6598.5	5706.5	5082.6	4524.4	4036.0
65°	7671.2	7560.3	6840.7	5865.2	5219.5	4706.4	4272.7
67.5°	7174.5	7393.4	7044.6	6133.4	5513.6	5148.3	4714.6
70°	6531.5	7145.8	7007.6	6167.6	5701.0	5510.9	4993.7
72.5°	5761.2	6397.4	6268.8	5712.0	5494.5	5515.0	4921.2
75°	4534.0	5011.5	4926.7	4731.0	4774.8	4925.3	4215.2
77.5°	3632.4	3568.1	3372.5	3386.1	3639.3	3815.7	3034.5
80°	2967.5	2402.5	2148.0	2154.8	2596.7	2780.1	1933.2
82.5°	2823.8	2272.5	1851.1	1617.1	1889.4	1819.6	1009.7
85°	2011.2	2015.3	1671.9	1358.6	1316.2	1119.1	629.3
87.5°	476.1	381.7	272.3	202.5	213.4	140.9	71.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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