

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: P153534

Luminaire Tested: **TLM-F05-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153534
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10489.8 lumens
Efficiency: N/A
Efficacy: 78.7 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

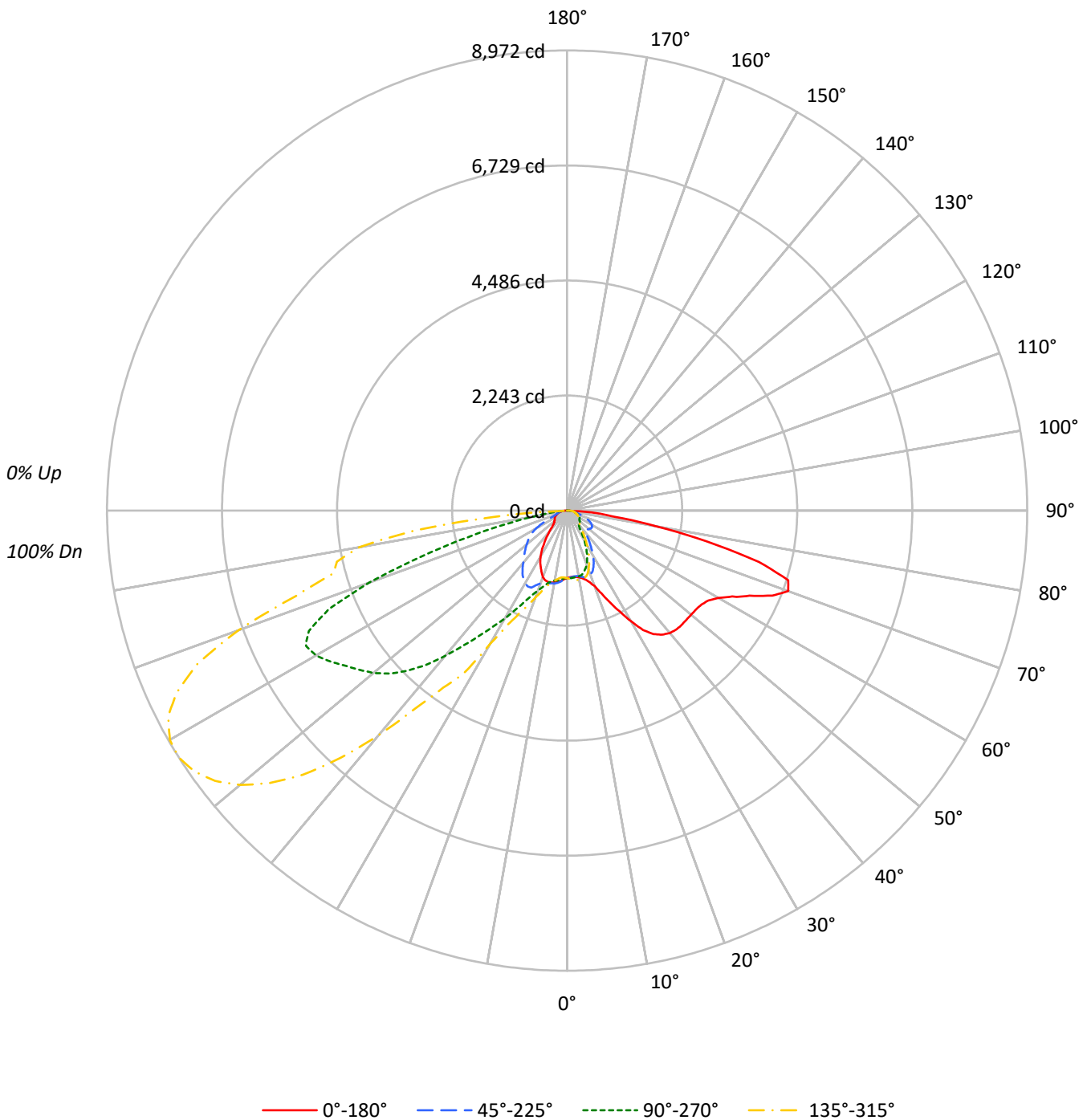
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

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°	17095	17095	17095	17095
5°	16801	17095	17913	17537
10°	17376	17161	18717	18236
15°	18744	16703	19352	19707
20°	21662	15400	19077	22875
25°	28357	13001	17406	28016
30°	37373	10068	15524	36357
35°	46555	6884	12434	47052
40°	52760	6020	9105	62567
45°	57849	6315	6845	81035
50°	63688	6464	6541	99336
55°	72198	6620	6677	119193
60°	88298	7268	7268	146576
65°	120428	7558	7675	170560
70°	173920	8004	8099	155242
75°	194003	8438	8939	100494
80°	132615	9104	10232	48805
85°	86020	11219	12335	23748



TEST NUMBER: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	1.2
10°-20°	399.7	3.8
20°-30°	710.0	6.8
30°-40°	1118.1	10.7
40°-50°	1645.5	15.7
50°-60°	2185.6	20.8
60°-70°	2407.5	23.0
70°-80°	1510.4	14.4
80°-90°	384.7	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°	1238.0	11.8
0°-40°	2356.0	22.5
0°-60°	6187.1	59.0
0°-90°	10489.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10489.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1318	1318	1318	1318	1318	
5°	1291	1313	1376	1347	1291	124
15°	1396	1244	1441	1468	1396	404
25°	1982	909	1216	1958	1982	935
35°	2941	435	785	2972	2941	1822
45°	3154	344	373	4418	3154	2439
55°	3193	293	295	5272	3193	2896
65°	3924	246	250	5558	3924	3951
75°	3872	168	178	2006	3872	3786
85°	578	75	83	160	578	668
90°	0	0	0	0	0	



TEST NUMBER: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1300.6	1304.4	1303.2	1303.2	1305.7	1304.4	1304.4	1305.7	1305.7	1309.4	1314.5
5°	1290.6	1289.3	1286.8	1289.3	1289.3	1289.3	1284.3	1288.1	1289.3	1291.8	1291.8
7.5°	1303.2	1299.4	1294.4	1295.6	1295.6	1293.1	1289.3	1290.6	1289.3	1289.3	1288.1
10°	1319.5	1310.7	1304.4	1304.4	1304.4	1301.9	1295.6	1299.4	1299.4	1298.1	1299.4
12.5°	1348.4	1338.3	1330.8	1328.3	1328.3	1324.5	1319.5	1324.5	1322.0	1322.0	1319.5
15°	1396.1	1384.8	1376.0	1368.5	1369.8	1369.8	1363.5	1359.7	1354.7	1348.4	1335.8
17.5°	1467.8	1455.2	1443.9	1437.6	1438.9	1430.1	1412.5	1394.9	1371.0	1347.1	1320.7
20°	1569.6	1565.8	1550.7	1544.4	1529.4	1508.0	1459.0	1417.5	1371.0	1325.8	1280.5
22.5°	1745.5	1727.9	1712.8	1688.9	1638.7	1579.6	1497.9	1425.0	1352.2	1288.1	1227.8
25°	1981.7	1950.3	1876.2	1803.3	1700.3	1594.7	1484.1	1389.9	1299.4	1215.2	1141.0
27.5°	2214.2	2118.7	1986.8	1854.8	1704.0	1565.8	1427.6	1315.7	1210.2	1118.4	1036.7
30°	2495.7	2334.9	2132.5	1923.9	1710.3	1524.3	1358.4	1227.8	1105.9	1009.1	923.6
32.5°	2759.6	2527.1	2262.0	1988.0	1724.1	1485.4	1279.3	1131.0	1005.3	883.4	799.2
35°	2940.6	2639.0	2317.3	1994.3	1690.2	1411.2	1180.0	1005.3	879.7	766.6	667.3
37.5°	3048.6	2688.0	2319.8	1949.1	1611.0	1310.7	1054.3	880.9	765.3	657.2	579.3
40°	3116.5	2699.3	2287.1	1883.7	1510.5	1183.8	928.7	772.8	667.3	580.6	520.3
42.5°	3149.2	2681.7	2234.3	1800.8	1408.7	1070.7	840.7	693.7	601.9	540.4	495.1
45°	3154.2	2650.3	2177.8	1725.4	1318.2	989.0	780.4	661.0	585.6	534.1	488.8
47.5°	3154.2	2622.6	2132.5	1670.1	1259.2	953.8	775.4	674.8	600.7	542.9	488.8
50°	3156.7	2613.8	2113.7	1642.4	1239.1	972.7	818.1	717.6	633.4	558.0	487.6
52.5°	3168.0	2625.2	2128.8	1663.8	1275.5	1048.1	898.5	781.6	676.1	575.5	487.6
55°	3193.2	2662.9	2192.9	1738.0	1373.5	1162.4	995.3	850.8	710.0	583.1	480.0
57.5°	3263.5	2758.4	2309.7	1881.2	1540.7	1294.4	1083.2	899.8	722.6	576.8	465.0
60°	3404.3	2948.1	2509.5	2082.3	1717.8	1407.5	1134.8	907.3	711.3	556.7	441.1
62.5°	3629.2	3165.5	2752.1	2300.9	1874.9	1470.3	1141.0	888.5	681.1	520.3	405.9
63°	3707.1	3219.6	2803.6	2342.4	1895.0	1475.3	1136.0	880.9	673.6	510.2	400.9
65°	3924.5	3447.0	2982.0	2488.2	1951.6	1476.6	1108.4	843.2	638.4	471.2	365.7
67.5°	4330.4	3746.1	3207.0	2602.5	1971.7	1436.4	1038.0	772.8	564.2	410.9	321.7
70°	4586.8	3913.2	3293.7	2605.0	1912.6	1322.0	916.1	658.5	470.0	340.6	276.5
72.5°	4520.2	3748.6	3065.0	2370.1	1657.5	1104.6	736.4	517.7	366.9	272.7	230.0
75°	3871.8	3120.3	2500.7	1836.0	1252.9	811.8	539.1	369.5	271.4	213.6	192.3
77.5°	2787.3	2245.6	1793.2	1308.2	844.5	525.3	358.1	263.9	206.1	175.9	158.3
80°	1775.7	1317.0	1097.1	786.7	493.9	325.5	246.3	199.8	169.6	147.0	135.7
82.5°	927.4	649.7	527.8	402.1	274.0	214.9	181.0	163.4	139.5	121.9	115.6
85°	578.1	383.3	284.0	198.6	137.0	123.2	113.1	110.6	99.3	88.0	84.2
87.5°	65.3	59.1	61.6	39.0	28.9	31.4	30.2	40.2	39.0	28.9	30.2
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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1309.4	1311.9	1311.9	1315.7	1315.7	1318.2	1320.7	1320.7	1323.3	1324.5	1327.0
5°	1294.4	1294.4	1294.4	1299.4	1300.6	1308.2	1310.7	1313.2	1315.7	1324.5	1329.5
7.5°	1290.6	1285.6	1288.1	1288.1	1291.8	1298.1	1304.4	1308.2	1311.9	1323.3	1330.8
10°	1298.1	1294.4	1290.6	1290.6	1291.8	1294.4	1299.4	1303.2	1305.7	1317.0	1323.3
12.5°	1318.2	1309.4	1301.9	1295.6	1290.6	1289.3	1286.8	1288.1	1290.6	1296.9	1305.7
15°	1322.0	1305.7	1289.3	1273.0	1260.4	1252.9	1246.6	1244.1	1244.1	1247.9	1257.9
17.5°	1296.9	1269.2	1245.3	1224.0	1210.2	1196.3	1190.1	1185.0	1182.5	1187.5	1188.8
20°	1242.8	1210.2	1177.5	1152.4	1127.2	1123.5	1113.4	1115.9	1118.4	1126.0	1129.7
22.5°	1168.7	1129.7	1089.5	1063.1	1043.0	1025.4	1014.1	1019.1	1022.9	1030.5	1034.2
25°	1078.2	1021.7	978.9	952.5	931.2	916.1	903.5	908.6	903.5	912.3	926.2
27.5°	971.4	904.8	859.6	829.4	814.3	801.7	789.2	789.2	801.7	801.7	813.1
30°	842.0	792.9	733.9	702.5	683.6	676.1	674.8	672.3	681.1	686.1	698.7
32.5°	720.1	659.7	603.2	573.0	556.7	547.9	549.2	550.4	554.2	561.7	581.8
35°	596.9	544.1	503.9	470.0	453.7	437.3	437.3	434.8	438.6	447.4	471.2
37.5°	517.7	471.2	439.8	413.4	397.1	387.0	378.3	374.5	374.5	378.3	387.0
40°	473.8	439.8	410.9	388.3	373.2	364.4	359.4	355.6	353.1	353.1	354.4
42.5°	453.7	418.5	389.6	369.5	358.1	353.1	351.9	350.6	346.8	345.6	344.3
45°	443.6	403.4	370.7	354.4	345.6	343.1	344.3	344.3	343.1	340.6	335.5
47.5°	436.1	389.6	356.9	341.8	338.0	338.0	338.0	338.0	336.8	335.5	331.8
50°	423.5	368.2	333.0	321.7	319.2	319.2	320.4	320.4	323.0	320.4	317.9
52.5°	409.7	348.1	312.9	302.9	301.6	300.3	300.3	300.3	301.6	301.6	300.3
55°	394.6	333.0	302.9	295.3	296.6	295.3	294.1	292.8	292.8	291.5	289.0
57.5°	379.5	320.4	295.3	290.3	291.5	291.5	289.0	286.5	285.3	281.5	279.0
60°	356.9	302.9	280.2	277.7	281.5	281.5	281.5	280.2	280.2	279.0	272.7
62.5°	326.7	277.7	260.1	261.4	262.6	265.2	265.2	265.2	265.2	262.6	256.4
63°	320.4	272.7	256.4	256.4	260.1	260.1	261.4	260.1	261.4	258.9	251.3
65°	295.3	256.4	243.8	245.0	247.6	247.6	247.6	246.3	246.3	242.5	238.8
67.5°	266.4	236.3	228.7	230.0	231.2	233.7	232.5	232.5	233.7	231.2	227.5
70°	233.7	214.9	209.9	211.1	212.4	212.4	211.1	211.1	212.4	209.9	206.1
72.5°	208.6	201.1	197.3	197.3	194.8	194.8	192.3	191.0	189.8	189.8	186.0
75°	175.9	174.7	175.9	178.4	175.9	173.4	172.2	168.4	165.9	165.9	164.6
77.5°	150.8	150.8	153.3	157.1	158.3	158.3	154.6	148.3	147.0	147.0	147.0
80°	130.7	128.2	128.2	131.9	135.7	134.5	128.2	121.9	121.9	128.2	129.4
82.5°	114.4	114.4	110.6	111.8	110.6	109.3	103.0	99.3	98.0	103.0	108.1
85°	90.5	91.7	90.5	89.2	88.0	84.2	79.2	75.4	74.1	79.2	86.7
87.5°	36.4	35.2	33.9	35.2	33.9	36.4	35.2	32.7	31.4	35.2	42.7
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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1328.3	1330.8	1333.3	1333.3	1335.8	1334.6	1335.8	1337.1	1337.1	1338.3	1338.3
5°	1335.8	1339.6	1344.6	1349.6	1350.9	1354.7	1358.4	1355.9	1359.7	1364.7	1364.7
7.5°	1338.3	1347.1	1350.9	1358.4	1359.7	1364.7	1373.5	1367.2	1374.8	1378.6	1379.8
10°	1334.6	1343.4	1349.6	1358.4	1362.2	1371.0	1379.8	1377.3	1386.1	1392.4	1393.6
12.5°	1311.9	1320.7	1334.6	1347.1	1357.2	1371.0	1387.3	1382.3	1394.9	1402.4	1406.2
15°	1268.0	1276.8	1291.8	1311.9	1330.8	1352.2	1373.5	1377.3	1389.9	1398.7	1402.4
17.5°	1198.8	1210.2	1226.5	1247.9	1271.7	1308.2	1335.8	1349.6	1367.2	1372.3	1378.6
20°	1134.8	1146.1	1156.1	1168.7	1186.3	1221.5	1257.9	1285.6	1308.2	1327.0	1332.1
22.5°	1049.3	1059.4	1071.9	1082.0	1094.5	1119.7	1149.8	1181.3	1216.4	1227.8	1240.3
25°	946.3	952.5	970.1	976.4	985.2	1006.6	1030.5	1053.1	1087.0	1110.9	1117.2
27.5°	835.7	842.0	858.3	862.1	873.4	893.5	911.1	919.9	951.3	976.4	996.5
30°	707.5	723.8	743.9	746.5	759.0	771.6	787.9	796.7	825.6	852.0	877.1
32.5°	596.9	613.2	629.6	639.6	645.9	656.0	672.3	681.1	708.8	732.6	757.8
35°	483.8	503.9	521.5	535.3	540.4	552.9	565.5	574.3	603.2	624.6	642.2
37.5°	398.4	413.4	432.3	446.1	459.9	468.7	483.8	496.4	514.0	525.3	544.1
40°	356.9	364.4	374.5	385.8	397.1	407.2	418.5	428.5	439.8	454.9	467.5
42.5°	343.1	344.3	344.3	348.1	354.4	359.4	369.5	377.0	384.5	395.8	402.1
45°	333.0	331.8	329.2	326.7	328.0	330.5	336.8	341.8	350.6	355.6	356.9
47.5°	328.0	323.0	317.9	314.2	312.9	314.2	319.2	324.2	329.2	333.0	334.3
50°	311.7	307.9	300.3	295.3	292.8	295.3	301.6	304.1	309.1	312.9	314.2
52.5°	295.3	290.3	285.3	280.2	280.2	281.5	286.5	291.5	296.6	297.8	300.3
55°	285.3	277.7	272.7	268.9	266.4	270.2	274.0	280.2	286.5	287.8	290.3
57.5°	275.2	267.7	262.6	258.9	256.4	260.1	263.9	272.7	280.2	280.2	280.2
60°	268.9	262.6	255.1	251.3	247.6	251.3	256.4	265.2	272.7	271.4	270.2
62.5°	251.3	245.0	241.3	241.3	237.5	243.8	248.8	258.9	260.1	257.6	255.1
63°	246.3	241.3	238.8	238.8	236.3	242.5	247.6	256.4	256.4	253.8	251.3
65°	233.7	230.0	227.5	230.0	230.0	236.3	237.5	243.8	242.5	238.8	237.5
67.5°	223.7	221.2	218.7	218.7	218.7	219.9	221.2	223.7	222.4	221.2	222.4
70°	207.3	206.1	203.6	203.6	202.3	202.3	202.3	203.6	203.6	204.8	206.1
72.5°	187.2	184.7	184.7	186.0	183.5	184.7	186.0	184.7	187.2	187.2	188.5
75°	164.6	163.4	165.9	168.4	167.1	167.1	168.4	168.4	169.6	169.6	170.9
77.5°	147.0	148.3	149.5	152.1	153.3	153.3	153.3	152.1	153.3	153.3	154.6
80°	130.7	133.2	135.7	138.2	139.5	139.5	139.5	138.2	138.2	138.2	138.2
82.5°	118.1	121.9	124.4	125.7	125.7	125.7	125.7	125.7	125.7	123.2	120.6
85°	99.3	106.8	106.8	108.1	104.3	101.8	99.3	100.5	101.8	96.8	95.5
87.5°	50.3	50.3	52.8	55.3	56.5	56.5	64.1	60.3	59.1	57.8	55.3
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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1339.6	1338.3	1340.9	1338.3	1339.6	1340.9	1338.3	1342.1	1344.6	1340.9	1337.1
5°	1367.2	1367.2	1373.5	1376.0	1377.3	1384.8	1381.1	1383.6	1386.1	1384.8	1386.1
7.5°	1384.8	1389.9	1396.1	1402.4	1403.7	1410.0	1408.7	1412.5	1415.0	1421.3	1421.3
10°	1399.9	1406.2	1415.0	1421.3	1427.6	1432.6	1435.1	1442.6	1443.9	1448.9	1448.9
12.5°	1413.7	1421.3	1430.1	1440.1	1446.4	1456.5	1457.7	1469.0	1472.8	1474.1	1470.3
15°	1411.2	1420.0	1430.1	1441.4	1452.7	1465.3	1472.8	1484.1	1490.4	1492.9	1486.6
17.5°	1387.3	1394.9	1407.5	1422.5	1436.4	1452.7	1466.5	1482.9	1492.9	1495.4	1494.2
20°	1340.9	1345.9	1362.2	1382.3	1398.7	1423.8	1443.9	1469.0	1485.4	1497.9	1501.7
22.5°	1249.1	1261.7	1278.0	1300.6	1324.5	1355.9	1384.8	1421.3	1456.5	1486.6	1516.8
25°	1138.5	1161.1	1186.3	1216.4	1245.3	1278.0	1310.7	1352.2	1403.7	1466.5	1538.1
27.5°	1026.7	1065.6	1097.1	1136.0	1169.9	1202.6	1239.1	1284.3	1340.9	1416.3	1508.0
30°	913.6	957.6	991.5	1036.7	1082.0	1126.0	1162.4	1210.2	1265.5	1342.1	1442.6
32.5°	792.9	836.9	877.1	918.6	968.9	1021.7	1065.6	1124.7	1183.8	1262.9	1364.7
35°	668.5	707.5	741.4	785.4	840.7	897.3	955.1	1022.9	1087.0	1169.9	1278.0
37.5°	560.5	588.1	620.8	659.7	702.5	762.8	828.1	908.6	981.4	1071.9	1182.5
40°	471.2	486.3	505.2	537.8	576.8	635.9	700.0	785.4	873.4	972.7	1079.5
42.5°	402.1	409.7	414.7	436.1	467.5	525.3	586.9	669.8	766.6	874.6	982.7
45°	356.9	360.7	361.9	373.2	395.8	446.1	510.2	580.6	673.6	779.1	892.2
47.5°	335.5	339.3	341.8	344.3	358.1	397.1	454.9	521.5	607.0	703.7	819.3
50°	317.9	321.7	325.5	324.2	330.5	355.6	404.6	466.2	546.6	635.9	750.2
52.5°	300.3	302.9	302.9	302.9	306.6	323.0	358.1	414.7	488.8	573.0	686.1
55°	290.3	292.8	294.1	295.3	296.6	305.4	331.8	377.0	441.1	519.0	620.8
57.5°	280.2	281.5	284.0	285.3	287.8	292.8	309.1	341.8	395.8	461.2	546.6
60°	271.4	274.0	279.0	280.2	282.7	284.0	291.5	311.7	346.8	397.1	466.2
62.5°	257.6	261.4	266.4	267.7	270.2	271.4	272.7	284.0	300.3	330.5	382.0
63°	253.8	257.6	263.9	265.2	266.4	266.4	267.7	275.2	290.3	316.7	354.4
65°	240.0	245.0	248.8	250.1	251.3	251.3	250.1	252.6	253.8	265.2	287.8
67.5°	224.9	228.7	231.2	232.5	231.2	232.5	231.2	228.7	226.2	228.7	238.8
70°	209.9	212.4	212.4	213.6	214.9	216.1	213.6	211.1	208.6	207.3	213.6
72.5°	192.3	194.8	194.8	196.0	196.0	198.6	198.6	197.3	197.3	198.6	199.8
75°	174.7	177.2	175.9	178.4	178.4	182.2	182.2	183.5	186.0	184.7	183.5
77.5°	158.3	159.6	159.6	160.9	162.1	168.4	172.2	173.4	173.4	170.9	168.4
80°	140.7	140.7	138.2	137.0	138.2	144.5	152.1	153.3	157.1	155.8	157.1
82.5°	118.1	113.1	109.3	109.3	111.8	115.6	118.1	120.6	123.2	123.2	125.7
85°	90.5	85.5	81.7	82.9	86.7	88.0	86.7	86.7	91.7	95.5	91.7
87.5°	54.0	49.0	46.5	42.7	44.0	47.8	46.5	42.7	44.0	35.2	32.7
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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1339.6	1338.3	1335.8	1332.1	1330.8	1328.3	1329.5	1325.8	1323.3	1320.7	1317.0
5°	1386.1	1386.1	1378.6	1378.6	1374.8	1373.5	1364.7	1361.0	1353.4	1355.9	1347.1
7.5°	1418.8	1422.5	1413.7	1412.5	1407.5	1406.2	1394.9	1391.1	1384.8	1382.3	1374.8
10°	1442.6	1442.6	1431.3	1422.5	1416.3	1410.0	1398.7	1393.6	1388.6	1389.9	1384.8
12.5°	1461.5	1452.7	1436.4	1423.8	1415.0	1408.7	1399.9	1396.1	1394.9	1403.7	1404.9
15°	1476.6	1464.0	1443.9	1435.1	1427.6	1426.3	1426.3	1430.1	1438.9	1455.2	1467.8
17.5°	1485.4	1477.8	1467.8	1465.3	1477.8	1485.4	1495.4	1506.7	1519.3	1541.9	1555.7
20°	1501.7	1506.7	1514.3	1524.3	1544.4	1563.3	1575.8	1592.2	1607.3	1634.9	1657.5
22.5°	1544.4	1573.3	1597.2	1617.3	1647.5	1673.9	1690.2	1712.8	1724.1	1743.0	1778.2
25°	1599.7	1658.8	1709.1	1751.8	1798.3	1825.9	1848.5	1877.4	1895.0	1926.5	1957.9
27.5°	1583.4	1667.6	1743.0	1822.2	1886.2	1957.9	2008.1	2055.9	2086.0	2132.5	2174.0
30°	1533.1	1633.7	1735.4	1839.7	1941.5	2044.6	2140.1	2226.8	2293.4	2360.0	2427.9
32.5°	1465.3	1580.9	1705.3	1833.5	1966.7	2109.9	2241.9	2372.6	2483.2	2579.9	2674.2
35°	1387.3	1518.0	1647.5	1805.8	1970.4	2152.7	2336.1	2517.1	2685.5	2856.4	2972.0
37.5°	1294.4	1427.6	1572.1	1754.3	1947.8	2172.8	2406.5	2642.7	2881.5	3111.5	3311.3
40°	1195.1	1330.8	1482.9	1680.1	1898.8	2160.2	2451.7	2769.7	3097.7	3430.7	3695.8
42.5°	1107.1	1246.6	1412.5	1612.3	1849.8	2143.9	2488.2	2879.0	3279.9	3692.1	4081.6
45°	1021.7	1175.0	1349.6	1564.5	1828.4	2156.4	2542.2	2980.8	3443.2	3943.4	4418.4
47.5°	945.0	1100.8	1270.5	1505.5	1797.0	2162.7	2595.0	3082.6	3597.8	4139.4	4703.7
50°	875.9	1026.7	1193.8	1430.1	1748.0	2158.9	2642.7	3174.3	3731.0	4294.0	4923.6
52.5°	808.0	961.3	1132.2	1357.2	1687.7	2137.6	2665.4	3249.7	3854.2	4449.8	5100.8
55°	741.4	892.2	1064.4	1288.1	1608.5	2082.3	2662.9	3298.7	3952.2	4596.8	5271.7
57.5°	663.5	806.8	975.2	1211.4	1524.3	1996.8	2625.2	3321.3	4036.4	4742.6	5476.5
60°	566.8	701.2	863.3	1099.6	1413.7	1887.5	2546.0	3308.8	4085.4	4850.7	5651.2
62.5°	447.4	564.2	712.5	943.7	1275.5	1730.4	2397.7	3194.4	4007.5	4835.6	5732.9
63°	422.2	532.8	677.3	906.0	1216.4	1687.7	2353.7	3149.2	3969.8	4804.2	5721.6
65°	339.3	410.9	526.5	731.4	1017.9	1477.8	2135.1	2916.7	3767.5	4583.0	5558.2
67.5°	260.1	296.6	358.1	501.4	720.1	1162.4	1729.2	2471.8	3269.8	4036.4	5031.6
70°	222.4	238.8	265.2	333.0	457.4	733.9	1213.9	1843.5	2534.7	3199.4	4094.2
72.5°	202.3	209.9	223.7	252.6	314.2	439.8	774.1	1200.1	1724.1	2280.8	2972.0
75°	186.0	192.3	203.6	218.7	241.3	292.8	441.1	733.9	1120.9	1497.9	2005.6
77.5°	169.6	173.4	186.0	199.8	214.9	241.3	291.5	422.2	644.7	883.4	1208.9
80°	155.8	153.3	162.1	184.7	199.8	214.9	230.0	274.0	366.9	483.8	653.5
82.5°	124.4	126.9	134.5	157.1	163.4	159.6	162.1	169.6	204.8	223.7	334.3
85°	84.2	77.9	76.7	79.2	79.2	75.4	75.4	74.1	81.7	93.0	159.6
87.5°	22.6	11.3	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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1314.5	1313.2	1314.5	1308.2	1308.2	1306.9	1305.7	1303.2	1303.2	1298.1	1301.9
5°	1339.6	1337.1	1332.1	1324.5	1320.7	1315.7	1315.7	1310.7	1306.9	1301.9	1303.2
7.5°	1368.5	1369.8	1361.0	1354.7	1352.2	1347.1	1348.4	1340.9	1342.1	1338.3	1335.8
10°	1384.8	1384.8	1387.3	1386.1	1388.6	1388.6	1392.4	1387.3	1384.8	1381.1	1381.1
12.5°	1411.2	1416.3	1426.3	1426.3	1433.8	1436.4	1437.6	1440.1	1435.1	1432.6	1423.8
15°	1476.6	1489.1	1497.9	1510.5	1525.6	1530.6	1530.6	1525.6	1523.1	1519.3	1503.0
17.5°	1584.6	1612.3	1619.8	1639.9	1642.4	1648.7	1666.3	1656.3	1650.0	1623.6	1618.6
20°	1695.2	1730.4	1765.6	1790.7	1803.3	1828.4	1832.2	1827.2	1802.0	1776.9	1765.6
22.5°	1828.4	1881.2	1921.4	1960.4	1979.2	1991.8	2019.4	2013.2	1993.1	1955.4	1940.3
25°	2016.9	2082.3	2125.0	2172.8	2197.9	2210.5	2238.1	2238.1	2216.7	2205.4	2204.2
27.5°	2254.4	2334.9	2405.2	2421.6	2486.9	2502.0	2528.4	2528.4	2508.3	2494.5	2561.1
30°	2518.3	2602.5	2724.4	2806.1	2885.3	2963.2	2961.9	2967.0	2990.8	3003.4	3032.3
32.5°	2782.2	2886.5	3016.0	3193.2	3362.8	3507.3	3694.6	3814.0	3777.5	3675.7	3635.5
35°	3102.7	3218.3	3375.4	3553.8	3864.2	4051.5	4141.9	4206.0	4213.6	4227.4	4256.3
37.5°	3459.6	3653.1	3835.3	4037.6	4209.8	4437.3	4647.1	4815.5	4854.5	4933.6	4888.4
40°	3910.7	4126.9	4317.9	4579.3	4810.5	5084.4	5384.8	5616.0	5709.0	5678.8	5452.6
42.5°	4383.2	4650.9	4874.6	5182.4	5482.8	5844.7	6155.1	6478.1	6535.9	6303.4	5965.3
45°	4818.0	5149.8	5427.5	5747.9	6114.9	6548.4	6963.1	7294.9	7283.6	6885.2	6432.8
47.5°	5208.8	5616.0	5955.3	6372.5	6767.1	7283.6	7759.8	8004.9	7860.4	7389.1	6835.0
50°	5531.8	6039.5	6458.0	6880.2	7381.6	8003.6	8462.3	8600.6	8321.6	7808.9	7225.8
52.5°	5791.9	6429.1	6899.0	7385.4	8018.7	8673.4	9068.0	9016.5	8655.8	8129.3	7548.7
55°	6011.8	6726.9	7287.3	7861.6	8647.0	9250.2	9512.9	9374.7	8870.7	8336.7	7769.9
57.5°	6239.3	7015.9	7644.2	8310.3	9184.9	9702.6	9848.4	9564.4	8972.5	8415.8	7865.4
60°	6466.8	7257.2	7959.7	8702.3	9592.1	10072.1	10031.9	9607.1	8942.4	8358.0	7801.3
62.5°	6620.1	7400.4	8143.1	8943.6	9897.4	10260.6	10014.3	9455.1	8767.7	8130.6	7610.3
63°	6623.8	7405.5	8154.4	8960.0	9931.4	10266.9	9980.4	9401.0	8712.4	8084.1	7553.8
65°	6544.7	7311.2	8053.9	8885.8	9902.4	10122.4	9687.6	9081.9	8397.0	7762.4	7259.7
67.5°	6140.0	6921.7	7577.6	8361.8	9384.7	9447.5	8903.4	8414.6	7798.8	7141.6	6616.3
70°	5324.5	5974.1	6617.5	7272.3	8130.6	8119.3	7607.8	7359.0	6819.9	6070.9	5649.9
72.5°	4234.9	4818.0	5270.4	5709.0	6274.5	6160.1	5830.9	5900.0	5550.6	4991.4	4741.4
75°	3144.2	3785.0	4006.2	4184.7	4423.4	4424.7	4515.2	4711.2	4706.2	4395.8	4080.4
77.5°	2062.2	2763.4	2837.5	2980.8	3267.3	3656.9	4059.0	4491.3	4599.4	4354.3	3888.1
80°	1149.8	1878.7	1793.2	1916.4	2225.5	2754.6	3347.7	3825.3	4106.8	3969.8	3475.9
82.5°	588.1	1083.2	1035.5	1206.4	1456.5	1916.4	2308.5	2675.4	3007.2	2988.3	2801.1
85°	305.4	593.1	674.8	764.0	889.7	1054.3	1202.6	1309.4	1447.7	1691.5	1774.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	90.5	65.3	179.7	256.4
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: P153534

CATALOG NUMBER: TLM-F05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1303.2	1304.4	1301.9	1301.9	1303.2	1303.2	1300.6
5°	1300.6	1300.6	1298.1	1295.6	1293.1	1293.1	1290.6
7.5°	1329.5	1329.5	1320.7	1317.0	1310.7	1305.7	1303.2
10°	1372.3	1364.7	1354.7	1347.1	1337.1	1325.8	1319.5
12.5°	1415.0	1403.7	1391.1	1379.8	1367.2	1354.7	1348.4
15°	1485.4	1470.3	1454.0	1440.1	1422.5	1403.7	1396.1
17.5°	1593.4	1569.6	1548.2	1528.1	1496.7	1482.9	1467.8
20°	1736.7	1701.5	1673.9	1639.9	1601.0	1588.4	1569.6
22.5°	1910.1	1880.0	1824.7	1799.5	1760.6	1741.7	1745.5
25°	2174.0	2135.1	2071.0	2047.1	2043.3	2001.9	1981.7
27.5°	2518.3	2520.9	2461.8	2397.7	2362.5	2297.2	2214.2
30°	3008.4	2974.5	2905.4	2840.0	2757.1	2634.0	2495.7
32.5°	3601.6	3526.2	3411.8	3289.9	3142.9	2953.1	2759.6
35°	4180.9	4048.9	3866.7	3663.2	3450.8	3214.5	2940.6
37.5°	4689.8	4485.0	4212.3	3978.6	3678.2	3382.9	3048.6
40°	5154.8	4901.0	4549.1	4246.2	3891.9	3512.4	3116.5
42.5°	5604.7	5283.0	4851.9	4442.3	4041.4	3599.1	3149.2
45°	6033.2	5618.5	5107.0	4619.5	4150.7	3655.6	3154.2
47.5°	6362.4	5910.1	5335.8	4747.6	4226.1	3698.3	3154.2
50°	6667.8	6156.4	5510.4	4848.2	4296.5	3727.2	3156.7
52.5°	6905.3	6329.8	5623.5	4919.8	4351.8	3748.6	3168.0
55°	7077.5	6442.9	5698.9	4963.8	4392.0	3778.8	3193.2
57.5°	7198.1	6517.0	5740.4	5002.7	4441.0	3831.5	3263.5
60°	7255.9	6654.0	5809.5	5080.7	4525.2	3943.4	3404.3
62.5°	7211.9	6866.4	6006.8	5212.6	4642.1	4118.1	3629.2
63°	7193.1	6905.3	6060.9	5241.5	4668.5	4155.8	3707.1
65°	7046.1	6944.3	6283.3	5387.3	4794.1	4322.9	3924.5
67.5°	6589.9	6791.0	6470.5	5633.6	5064.3	4728.8	4330.4
70°	5999.3	6563.5	6436.6	5665.0	5236.5	5061.8	4586.8
72.5°	5291.8	5876.1	5758.0	5246.5	5046.7	5065.6	4520.2
75°	4164.6	4603.1	4525.2	4345.5	4385.7	4524.0	3871.8
77.5°	3336.4	3277.4	3097.7	3110.2	3342.7	3504.8	2787.3
80°	2725.7	2206.7	1972.9	1979.2	2385.1	2553.5	1775.7
82.5°	2593.7	2087.3	1700.3	1485.4	1735.4	1671.4	927.4
85°	1847.3	1851.1	1535.6	1247.9	1208.9	1027.9	578.1
87.5°	437.3	350.6	250.1	186.0	196.0	129.4	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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