

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: P148937

Luminaire Tested: **TLM-F01-LED-E1-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148937
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-RW-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

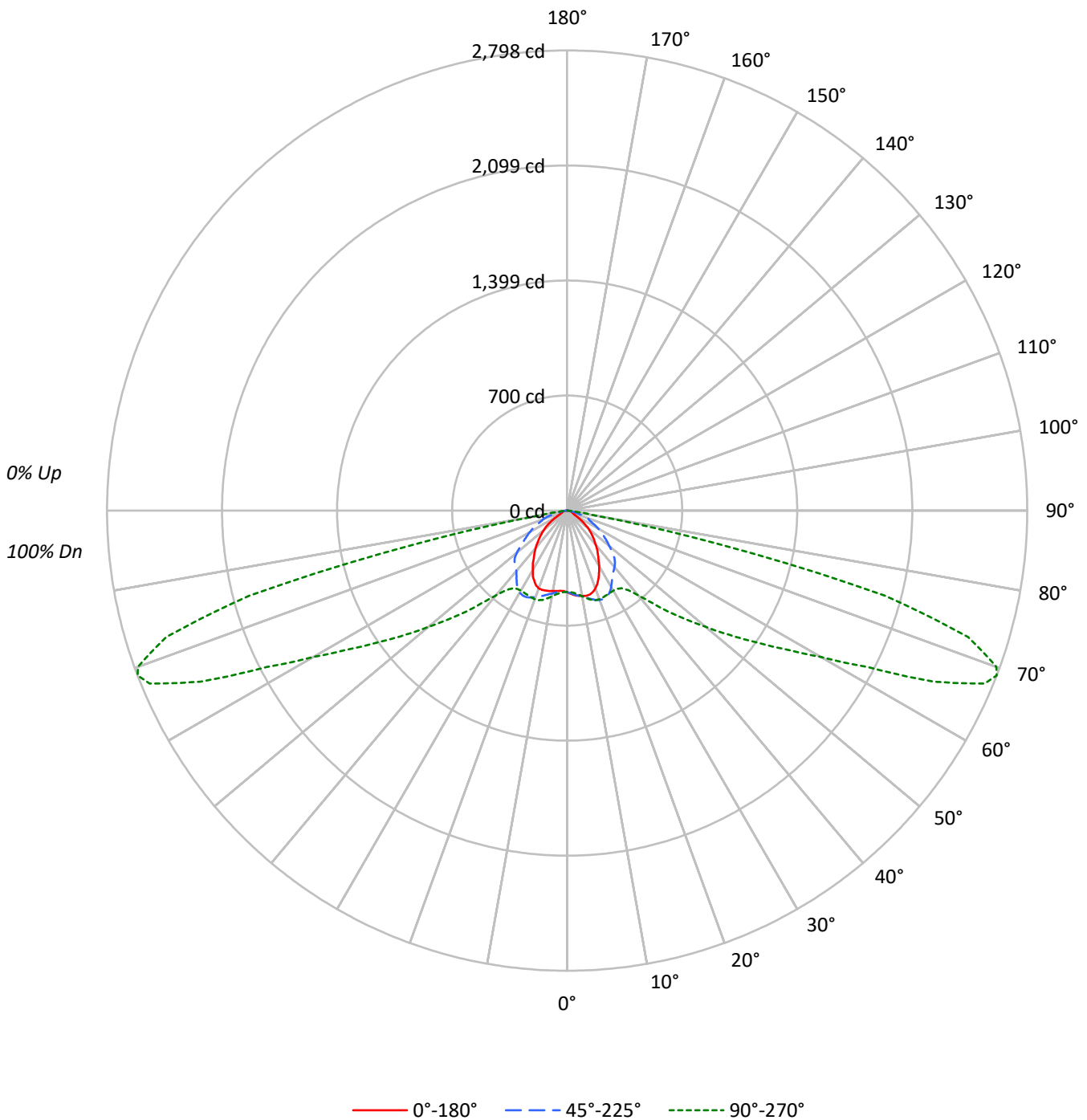
Lumens per Lamp: N/A
Luminaire Lumens: 2646.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-LED-E1-RW-7060

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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31393	31393	31393
5°	32790	31964	31138
10°	33909	34018	31967
15°	34683	36813	32985
20°	33845	38643	33919
25°	31585	39591	33003
30°	28426	41104	30532
35°	25253	44546	27301
40°	22267	55428	24598
45°	19467	77670	21491
50°	16381	108276	18440
55°	11812	153663	14494
60°	7041	225016	8649
65°	6352	368680	6352
70°	6479	514153	6591
75°	6899	489326	7241
80°	7001	63008	7621
85°	4504	15765	6393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.8
10°-20°	153.4	5.8
20°-30°	248.6	9.4
30°-40°	309.8	11.7
40°-50°	387.1	14.6
50°-60°	478.0	18.1
60°-70°	593.9	22.4
70°-80°	394.3	14.9
80°-90°	32.6	1.2
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°	450.6	17.0
0°-40°	760.4	28.7
0°-60°	1625.5	61.4
0°-90°	2646.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2646.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	496	496	496	496	496	
5°	516	513	503	495	490	50
15°	529	556	562	534	503	148
25°	452	576	567	581	472	207
35°	327	481	576	535	353	205
45°	217	405	867	452	240	168
55°	107	274	1392	321	131	95
65°	42	159	2461	202	42	43
75°	28	63	2000	82	30	30
85°	6	12	22	16	9	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	507.1	508.8	507.1	507.1	505.7	504.3	503.4	501.5	500.3	499.8	499.8
5°	515.9	515.6	515.9	515.9	514.5	512.8	511.6	509.9	508.2	508.0	507.7
7.5°	522.4	522.1	522.9	524.6	523.8	522.4	522.4	520.7	519.5	519.5	519.0
10°	527.4	527.7	529.4	532.0	532.5	532.2	534.2	533.7	533.1	533.7	533.1
12.5°	530.8	531.1	533.4	538.2	541.3	543.3	548.3	548.6	548.9	548.9	548.9
15°	529.1	529.1	533.7	542.7	550.3	556.2	562.7	563.9	562.7	563.6	563.0
17.5°	519.3	519.8	527.2	541.0	556.5	569.5	576.6	574.6	572.6	572.6	571.8
20°	502.3	503.4	513.3	532.8	557.4	578.0	589.0	582.5	577.1	576.3	575.4
22.5°	481.4	480.6	492.4	517.0	550.9	581.7	596.6	588.7	579.1	577.1	575.7
25°	452.1	452.6	465.0	492.4	534.5	575.7	598.9	594.9	583.6	581.1	578.0
27.5°	419.9	421.3	434.5	462.5	509.1	561.0	596.3	601.1	592.4	589.6	586.7
30°	388.8	389.7	404.6	434.5	477.8	535.1	589.6	607.9	603.4	601.1	598.6
32.5°	355.8	358.6	371.6	405.5	452.9	506.6	579.1	615.0	616.7	615.3	613.8
35°	326.7	328.9	343.6	379.2	428.9	481.1	566.4	622.6	634.2	633.9	633.6
37.5°	300.4	301.0	316.5	352.7	405.2	463.4	553.1	635.0	655.6	658.5	661.8
40°	269.4	272.2	288.3	327.3	381.7	448.1	541.8	651.7	685.6	691.8	696.6
42.5°	244.5	244.5	258.9	297.6	354.1	430.6	537.9	672.6	721.1	729.6	738.1
45°	217.4	218.3	232.1	267.4	322.5	405.2	537.3	695.7	761.0	773.1	783.5
47.5°	191.7	192.3	207.0	241.1	289.7	370.2	530.3	721.4	802.7	820.3	831.8
50°	166.3	165.5	179.6	214.3	260.6	334.0	507.7	754.7	854.7	872.2	885.5
52.5°	135.0	137.2	152.5	185.5	232.1	303.3	461.7	787.5	908.3	928.1	946.2
55°	107.0	106.7	124.0	153.9	201.3	274.2	407.2	810.7	960.6	983.5	1003.5
57.5°	76.8	77.6	92.3	122.0	169.4	248.2	365.9	806.7	1001.0	1028.1	1053.5
60°	55.6	57.3	68.3	90.1	135.2	218.3	337.1	761.0	1028.6	1065.6	1096.4
62.5°	46.9	48.3	57.9	69.7	104.5	186.9	309.2	687.5	1064.5	1113.3	1158.0
65°	42.4	43.5	53.1	59.9	80.2	159.0	291.7	635.6	1111.6	1185.9	1246.9
67.5°	38.1	39.8	48.3	53.4	68.0	142.0	286.6	627.7	1120.7	1218.9	1305.6
69°	36.1	37.8	45.5	50.0	64.1	136.7	277.0	599.2	1061.7	1167.3	1264.4
70°	35.0	36.4	43.2	48.0	63.0	131.6	263.4	557.4	999.0	1105.4	1209.9
72.5°	32.2	33.0	38.7	43.5	57.9	101.1	199.6	402.6	745.7	851.0	953.5
75°	28.2	29.1	34.2	39.0	44.9	62.7	121.1	238.9	457.7	528.6	631.4
77.5°	24.3	25.1	29.4	36.7	35.6	40.9	74.0	142.9	240.0	275.3	341.1
80°	19.2	20.3	24.6	35.3	29.6	32.5	54.2	105.6	146.0	160.7	177.9
82.5°	13.6	14.1	18.6	28.2	22.3	24.6	40.7	87.8	117.2	127.9	133.0
85°	6.2	6.5	11.0	16.7	13.3	11.9	21.7	56.2	77.6	80.8	85.3
87.5°	0.0	0.0	1.1	1.1	2.3	1.4	2.5	7.1	11.9	11.9	14.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	500.1	499.8	500.1	500.1	500.3	499.2	498.9	498.6	498.4	498.6	498.1
5°	507.7	507.4	507.4	507.7	507.4	506.6	506.3	506.3	505.4	505.1	505.1
7.5°	519.3	518.7	517.8	518.4	518.7	518.4	518.7	517.8	517.8	517.0	517.3
10°	533.7	533.1	532.8	533.4	533.7	533.4	533.7	532.5	532.2	532.0	531.4
12.5°	549.5	548.3	549.2	549.2	549.5	550.6	549.2	549.8	548.6	548.6	548.3
15°	563.3	563.0	563.6	563.6	563.3	564.2	563.9	564.2	562.7	562.2	563.6
17.5°	572.1	571.2	571.5	571.2	571.2	571.2	571.8	571.8	570.9	570.6	571.2
20°	574.3	572.9	572.6	572.3	571.8	571.8	572.1	571.5	570.9	570.4	570.9
22.5°	573.8	572.1	570.4	569.5	568.7	567.5	567.3	566.7	565.8	565.8	566.1
25°	575.7	572.6	570.1	568.4	566.1	564.7	563.6	562.2	560.8	559.9	560.2
27.5°	582.5	579.1	575.7	572.3	569.0	566.1	563.9	561.3	559.1	557.4	556.5
30°	595.2	590.7	586.7	582.8	578.6	574.6	570.9	567.0	562.7	560.2	557.9
32.5°	609.9	606.8	604.2	599.7	595.2	590.4	585.9	582.5	576.3	571.5	567.5
35°	632.2	631.1	629.7	626.3	621.2	618.6	615.0	609.6	602.3	598.0	592.1
37.5°	663.0	663.3	662.1	660.7	661.3	656.5	654.2	653.7	646.3	643.5	634.7
40°	700.8	705.0	708.7	708.7	711.5	711.8	711.3	716.1	710.7	711.8	702.5
42.5°	742.9	753.1	758.7	762.9	772.3	776.5	783.5	794.0	794.6	799.9	800.5
45°	792.6	803.9	814.6	825.6	838.0	852.7	867.4	878.1	895.1	898.7	910.9
47.5°	844.3	860.6	873.1	887.2	908.3	927.3	949.0	971.0	990.5	1004.3	1012.3
50°	901.3	917.9	936.0	951.8	974.4	1001.0	1031.2	1061.4	1086.5	1111.1	1130.8
52.5°	964.5	982.9	999.8	1020.4	1043.3	1074.9	1108.0	1149.5	1183.1	1216.7	1241.0
55°	1025.2	1045.9	1061.4	1087.6	1111.4	1143.8	1184.8	1233.9	1280.5	1321.2	1354.2
57.5°	1078.0	1098.4	1120.1	1142.7	1171.5	1204.0	1254.2	1310.1	1363.2	1416.6	1465.4
60°	1127.5	1154.8	1178.6	1208.5	1237.3	1274.8	1334.7	1403.9	1476.5	1542.8	1591.7
62.5°	1202.0	1237.0	1265.0	1302.0	1342.1	1386.4	1452.5	1528.7	1623.3	1708.8	1784.8
65°	1306.2	1359.8	1405.0	1450.5	1499.3	1560.3	1631.7	1728.6	1833.1	1959.6	2059.8
67.5°	1380.5	1447.7	1506.1	1563.1	1619.3	1686.8	1775.2	1888.7	2023.9	2156.9	2284.3
69°	1350.5	1421.7	1486.6	1543.4	1602.7	1670.2	1756.3	1880.8	2018.6	2164.8	2291.1
70°	1287.6	1364.4	1433.8	1488.0	1548.7	1615.7	1710.8	1829.7	1970.3	2121.6	2245.3
72.5°	1035.4	1116.4	1185.1	1245.2	1308.7	1387.2	1471.9	1586.0	1741.9	1890.1	2000.2
75°	713.2	788.9	866.6	911.5	984.3	1040.2	1120.7	1237.6	1367.7	1476.7	1578.7
77.5°	403.5	444.1	502.9	521.2	573.5	610.7	653.4	725.4	793.1	856.4	874.7
80°	183.5	171.4	177.3	168.3	178.2	172.0	164.9	168.9	168.0	180.7	168.9
82.5°	132.1	114.1	94.9	81.9	72.0	61.0	52.0	46.6	46.0	48.3	47.4
85°	84.4	77.1	60.4	48.6	37.3	28.8	24.0	21.7	21.7	23.2	22.9
87.5°	14.7	12.7	7.9	6.8	5.9	4.0	2.5	2.5	2.3	2.8	3.7
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	498.1	497.8	497.2	497.0	497.0	496.4	496.1	496.7	497.0	497.2	496.4
5°	505.1	504.3	504.0	504.3	502.9	503.2	502.9	503.2	503.2	503.2	502.6
7.5°	516.4	515.6	516.2	515.6	514.7	514.5	514.5	513.6	512.5	512.2	512.5
10°	532.0	530.8	531.1	531.4	530.6	530.0	529.1	528.0	528.0	527.7	527.2
12.5°	548.6	548.1	548.1	548.3	548.1	546.9	545.8	545.2	545.0	545.0	545.0
15°	563.0	562.7	563.0	562.7	562.7	562.2	561.6	560.8	560.5	560.8	561.0
17.5°	571.2	570.4	571.2	571.5	571.2	571.2	571.2	570.6	570.4	570.4	570.6
20°	571.8	571.2	571.8	572.6	572.6	572.9	573.5	573.8	573.5	574.0	574.3
22.5°	566.1	566.1	567.0	567.8	569.2	569.8	570.9	571.5	572.1	572.9	573.5
25°	560.5	560.2	561.0	562.7	563.9	565.3	566.7	567.8	569.0	570.1	571.2
27.5°	556.5	556.2	556.8	558.2	559.6	561.3	563.6	565.3	566.7	568.1	569.0
30°	556.8	555.7	555.4	556.5	557.9	559.9	562.2	564.2	566.1	567.3	568.1
32.5°	565.0	562.2	561.0	560.8	561.3	562.7	564.4	566.4	567.8	569.0	569.2
35°	586.2	580.8	579.7	576.0	576.6	576.3	576.3	577.4	578.6	578.6	576.6
37.5°	629.1	621.5	616.1	612.4	608.8	608.5	607.9	607.4	604.5	602.8	602.6
40°	696.0	692.9	682.7	679.9	673.7	669.5	670.6	668.3	661.6	659.0	657.9
42.5°	793.7	795.4	789.8	776.5	771.1	762.9	756.2	755.0	748.8	743.7	739.8
45°	908.3	911.5	907.2	897.6	888.0	875.6	867.4	851.6	845.4	837.5	832.1
47.5°	1026.1	1034.6	1027.8	1019.3	1013.9	994.5	977.5	959.2	949.9	938.6	933.5
50°	1143.0	1158.0	1154.0	1146.1	1140.2	1115.6	1099.2	1073.8	1068.4	1057.2	1050.9
52.5°	1259.9	1274.6	1283.3	1276.0	1271.7	1252.0	1240.7	1220.4	1205.1	1198.0	1197.8
55°	1377.9	1401.6	1415.5	1412.9	1405.9	1403.3	1392.0	1390.1	1378.2	1370.6	1360.4
57.5°	1493.4	1518.5	1542.5	1556.6	1562.6	1560.6	1566.0	1565.4	1567.1	1566.2	1549.6
60°	1640.2	1680.0	1715.0	1737.4	1758.5	1773.2	1776.9	1798.6	1792.4	1806.0	1780.0
62.5°	1847.5	1899.1	1952.2	1975.7	2001.6	2049.4	2060.7	2086.3	2090.3	2093.7	2079.9
65°	2136.3	2204.1	2284.3	2320.1	2360.8	2422.1	2460.8	2488.1	2487.3	2468.7	2450.9
67.5°	2382.8	2463.0	2536.7	2599.1	2659.8	2707.5	2748.2	2785.2	2787.2	2775.6	2745.1
69°	2404.0	2487.9	2568.1	2643.2	2703.3	2756.4	2797.6	2826.4	2832.6	2822.5	2794.2
70°	2364.8	2449.5	2536.7	2608.7	2676.8	2732.9	2777.3	2804.9	2813.4	2803.0	2776.4
72.5°	2123.3	2205.5	2270.7	2355.4	2452.3	2487.6	2555.9	2578.5	2599.4	2585.6	2569.7
75°	1663.4	1740.7	1808.2	1852.3	1896.6	1983.9	2000.2	2042.6	2057.0	2043.4	2060.9
77.5°	866.6	918.8	941.4	906.1	911.5	980.3	941.4	987.1	1013.4	1021.0	1032.0
80°	165.7	174.2	180.7	178.5	180.7	185.8	172.8	165.7	175.1	173.1	173.1
82.5°	48.8	48.0	48.0	50.5	50.3	51.4	51.4	49.4	50.8	50.8	51.1
85°	22.3	21.2	20.9	21.2	20.9	20.9	21.7	21.7	23.4	22.0	22.3
87.5°	2.8	2.5	2.8	2.8	2.3	2.3	2.5	2.8	2.8	2.5	2.5
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: P148937

CATALOG NUMBER: TLM-F01-LED-E1-RW-7060

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2.5°	496.1	495.8	495.8	495.8	495.5	495.3	495.0	494.1	493.3	493.0	491.6
5°	501.5	501.8	501.2	500.6	500.6	500.6	499.8	497.5	495.8	495.0	493.0
7.5°	512.8	512.2	511.4	511.1	510.5	510.8	509.1	506.3	503.2	501.2	498.1
10°	527.7	527.2	526.6	526.0	525.2	525.2	523.2	519.0	514.2	510.8	505.1
12.5°	545.2	544.7	544.1	543.8	542.4	542.1	539.3	534.2	528.0	521.5	513.3
15°	561.3	560.5	560.2	559.4	558.5	558.2	555.7	548.9	541.3	533.9	523.2
17.5°	571.5	570.9	570.1	569.5	569.2	569.0	565.3	559.6	553.7	546.4	533.4
20°	574.9	575.2	574.6	574.0	573.2	572.6	569.2	563.9	562.7	558.8	545.5
22.5°	574.3	574.3	574.0	572.9	572.3	570.9	566.1	563.6	569.8	571.5	554.6
25°	572.1	571.8	570.9	570.1	568.4	566.4	559.1	560.5	578.0	581.1	556.5
27.5°	569.5	569.2	567.8	565.8	563.3	560.5	551.2	560.5	585.6	583.1	548.3
30°	568.1	567.0	565.0	562.2	558.8	555.7	545.5	567.8	591.0	576.3	525.8
32.5°	568.4	566.4	563.6	559.9	556.0	552.3	545.2	580.8	593.0	559.9	493.8
35°	575.2	572.1	568.4	564.7	560.8	557.4	557.9	598.9	592.7	535.4	463.1
37.5°	599.7	594.4	591.8	587.9	582.2	579.4	590.7	618.9	588.7	505.4	436.0
40°	653.9	649.4	645.8	635.6	637.6	635.3	646.0	646.3	583.6	480.3	413.4
42.5°	733.0	733.0	725.1	723.7	718.3	720.9	725.7	678.5	578.6	465.3	391.1
45°	826.2	833.2	830.1	829.3	833.5	838.6	816.6	716.6	578.8	452.3	365.1
47.5°	936.9	942.8	945.9	951.0	956.3	953.2	907.8	756.7	583.9	433.7	331.8
50°	1054.6	1069.0	1073.5	1080.0	1084.8	1085.7	994.2	797.9	589.3	399.5	295.6
52.5°	1200.6	1214.1	1218.9	1223.5	1219.8	1216.7	1078.9	846.8	585.0	358.9	264.9
55°	1372.3	1374.8	1374.0	1368.3	1365.2	1348.3	1157.4	898.7	552.0	321.3	235.5
57.5°	1551.0	1552.1	1542.0	1522.2	1499.3	1483.2	1232.8	941.7	482.0	291.1	206.4
60°	1781.1	1758.0	1740.7	1710.5	1673.3	1638.8	1313.5	965.7	415.1	262.0	173.7
62.5°	2059.0	2012.7	1975.4	1944.9	1889.8	1829.1	1416.6	968.8	374.4	234.4	136.4
65°	2418.7	2369.8	2306.3	2254.1	2194.5	2112.6	1582.9	946.5	354.4	202.2	99.7
67.5°	2701.9	2652.5	2581.3	2522.9	2446.1	2350.6	1720.7	907.5	349.6	173.1	78.5
69°	2751.3	2697.4	2633.3	2560.1	2478.5	2376.6	1726.1	862.3	342.2	162.1	72.0
70°	2733.2	2677.0	2615.2	2537.6	2446.1	2341.3	1685.4	812.1	327.5	155.9	69.7
72.5°	2530.5	2444.9	2382.8	2316.5	2205.2	2099.1	1451.0	614.4	255.0	131.3	65.2
75°	2025.9	1952.8	1882.8	1849.7	1757.4	1667.3	1089.3	390.2	166.6	81.6	51.1
77.5°	1032.9	1019.6	1039.6	1024.7	958.0	958.0	672.3	207.3	98.0	49.1	39.0
80°	185.5	193.4	189.7	197.7	183.8	204.1	236.3	139.2	69.5	37.6	31.9
82.5°	52.0	52.5	52.0	52.2	53.9	56.8	122.8	119.7	53.6	28.2	24.8
85°	24.3	24.6	25.1	25.1	27.4	28.0	82.4	85.8	31.3	15.5	16.7
87.5°	2.8	3.7	3.7	3.4	4.0	4.0	15.2	17.2	4.2	3.1	5.1
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: P148937

CATALOG NUMBER: TLM-F01-LED-E1-RW-7060

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	495.8	495.8	495.8	495.8
2.5°	490.5	489.3	488.2	489.0
5°	492.2	490.5	489.0	489.9
7.5°	496.7	493.8	493.6	493.6
10°	502.3	498.4	497.2	497.2
12.5°	508.2	502.9	500.9	500.9
15°	514.5	506.8	504.0	503.2
17.5°	521.5	510.8	505.7	505.7
20°	528.3	511.4	503.7	503.4
22.5°	529.4	504.9	493.8	493.3
25°	521.0	489.6	475.2	472.4
27.5°	500.9	465.9	450.6	450.1
30°	470.7	434.8	419.3	417.6
32.5°	441.0	402.9	388.5	388.5
35°	411.1	373.8	355.2	353.2
37.5°	383.4	343.1	326.4	326.1
40°	358.0	316.2	300.1	297.6
42.5°	332.6	288.0	269.7	269.1
45°	302.4	257.2	241.4	240.0
47.5°	270.2	229.6	212.9	212.6
50°	241.1	203.9	187.2	187.2
52.5°	214.6	178.7	162.1	160.4
55°	184.7	150.2	133.3	131.3
57.5°	152.2	118.3	103.1	98.8
60°	117.7	86.1	70.6	68.3
62.5°	85.8	63.0	51.4	49.7
65°	64.7	53.6	44.0	42.4
67.5°	55.6	48.3	40.1	38.4
69°	51.7	45.7	38.4	36.7
70°	50.0	44.0	37.0	35.6
72.5°	46.0	40.4	33.9	33.3
75°	42.1	36.7	30.5	29.6
77.5°	40.7	31.9	26.3	25.7
80°	41.5	26.0	21.5	20.9
82.5°	33.9	20.9	16.7	15.8
85°	21.2	14.1	8.8	8.8
87.5°	5.4	4.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)