

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: P151212

Luminaire Tested: **TLM-E01-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151212
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E01-LED-E1-SL3-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

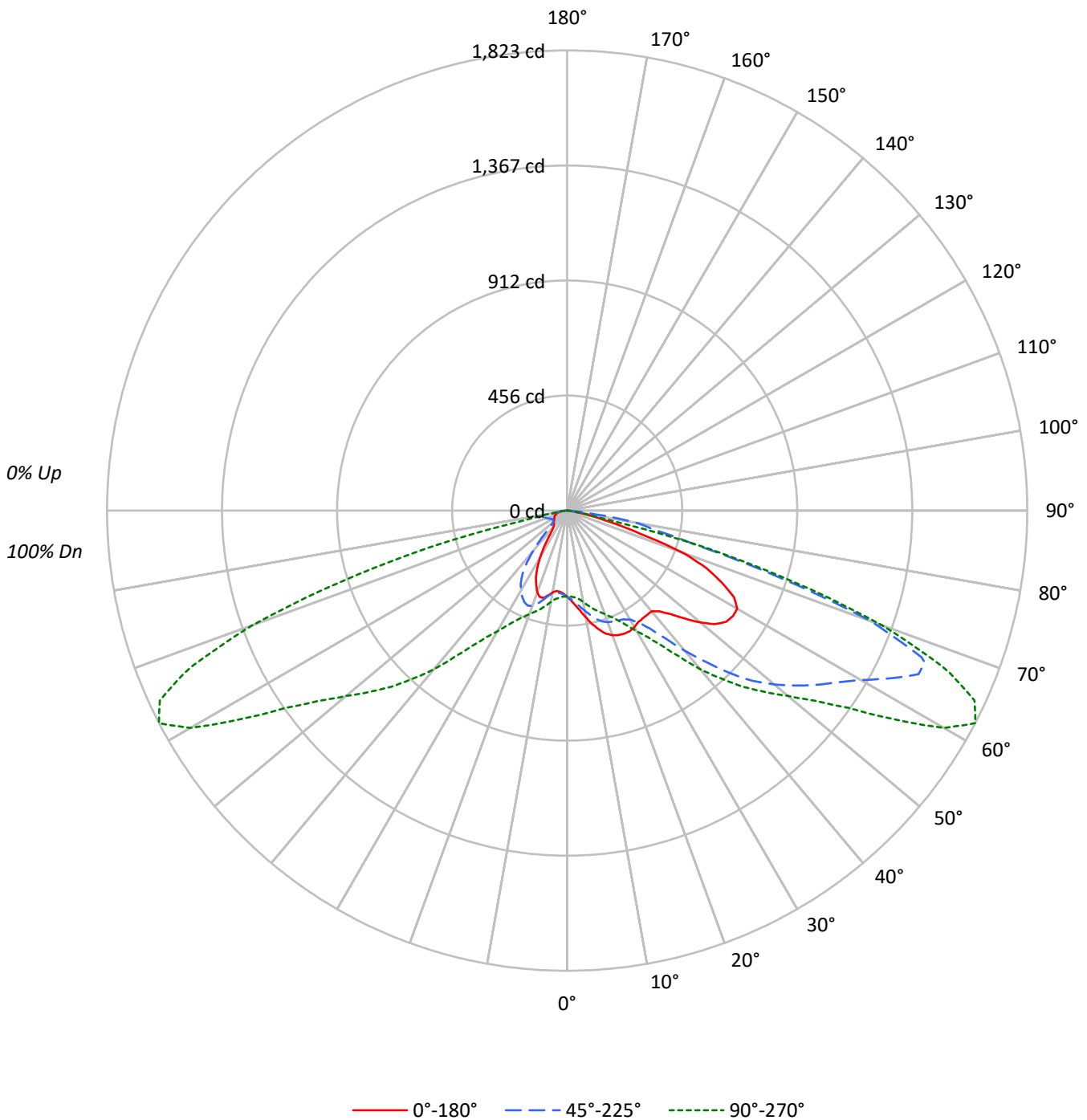
Lumens per Lamp: N/A
Luminaire Lumens: 3115.4 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): 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	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77					77			
2	93	82	74	66	90	80	72	65	77	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	50	79	67	58	50	64	56	49	61	54	48	58	52	47	44					44			
4	73	59	48	39	71	57	47	39	54	46	38	52	44	38	49	43	37	35					35			
5	66	51	40	32	64	49	39	31	47	38	31	45	37	31	43	36	30	28					28			
6	60	44	34	26	58	43	33	26	41	32	26	39	31	25	38	31	25	23					23			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	25	19	49	35	25	19	33	25	18	32	24	18	30	23	18	16					16			
9	47	32	23	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14					14			
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21547	21547	21547
5°	23936	21960	20523
10°	27666	23577	21153
15°	31995	26437	23474
20°	35402	29432	23233
25°	37565	33548	20358
30°	38984	40285	15529
35°	40294	50467	9461
40°	43030	67793	6902
45°	51971	88362	6644
50°	67889	112531	6708
55°	84802	150384	6944
60°	98534	218039	7408
65°	101354	266727	8255
70°	90231	245497	9127
75°	43350	138735	10617
80°	14950	19216	10866
85°	6684	11914	10897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	1.1
10°-20°	116.2	3.7
20°-30°	205.1	6.6
30°-40°	294.5	9.5
40°-50°	447.2	14.4
50°-60°	658.5	21.1
60°-70°	875.1	28.1
70°-80°	428.1	13.7
80°-90°	56.9	1.8
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°	355.2	11.4
0°-40°	649.7	20.9
0°-60°	1755.4	56.3
0°-90°	3115.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	340	340	340	340	340	
5°	377	366	346	328	323	38
15°	488	444	403	365	358	139
25°	538	479	480	400	291	248
35°	521	570	653	309	122	329
45°	580	910	987	111	74	459
55°	768	1204	1362	67	63	678
65°	676	1535	1780	75	55	657
75°	177	528	567	87	43	221
85°	9	29	16	21	15	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
2.5°	356.4	356.7	356.1	355.7	353.7	351.6	350.2	348.5	348.5	348.5	347.8
5°	376.6	375.2	376.2	373.8	369.7	366.0	362.2	359.1	358.5	358.5	357.1
7.5°	400.9	399.2	398.5	395.1	388.9	383.4	375.9	372.8	371.1	370.4	369.7
10°	430.3	430.3	425.8	420.0	411.8	402.2	394.0	388.6	388.2	388.2	385.1
12.5°	460.4	461.1	455.2	449.4	436.1	423.4	413.9	407.7	407.4	406.0	404.3
15°	488.1	486.4	482.6	474.1	459.4	444.3	432.3	426.2	424.8	423.4	422.4
17.5°	511.0	509.3	504.5	493.6	478.2	460.4	445.7	439.2	438.5	437.8	436.4
20°	525.4	524.0	517.2	504.5	488.4	470.3	454.6	450.1	448.8	448.8	448.1
22.5°	533.6	531.5	521.6	504.8	489.1	475.8	462.8	460.0	459.0	459.4	459.4
25°	537.7	536.0	521.9	498.0	483.0	479.2	473.7	472.0	472.4	472.7	473.4
27.5°	538.4	536.0	519.6	489.1	475.1	485.7	489.5	492.2	492.2	493.6	496.0
30°	533.2	530.5	514.8	482.3	471.7	498.7	513.7	520.9	523.7	523.0	528.4
32.5°	524.3	522.6	510.0	482.3	481.2	524.3	551.0	561.3	562.6	563.3	569.5
35°	521.3	520.9	515.4	498.7	511.0	569.5	610.2	618.1	619.8	619.8	624.2
37.5°	520.6	522.3	528.4	529.5	563.3	636.5	689.9	701.9	701.9	705.3	705.3
40°	520.6	524.3	547.6	575.3	627.3	723.7	797.6	811.3	811.3	815.1	813.0
42.5°	540.8	546.2	584.5	637.2	708.0	813.7	898.5	913.9	914.9	913.9	917.0
45°	580.4	585.2	631.7	707.3	791.1	910.2	995.0	1013.5	1009.7	1012.1	1013.1
47.5°	633.1	640.6	693.6	783.9	872.2	999.4	1103.1	1119.8	1118.5	1119.5	1115.0
50°	689.2	697.1	756.2	859.9	952.9	1071.3	1189.9	1214.9	1212.5	1214.2	1216.6
52.5°	738.8	743.6	800.7	917.0	1014.1	1138.3	1256.6	1287.8	1293.2	1293.9	1295.6
55°	768.2	774.0	826.4	945.4	1058.6	1204.0	1332.9	1380.1	1390.7	1393.5	1401.0
57.5°	778.5	784.6	832.2	949.5	1082.9	1265.5	1439.3	1522.4	1531.3	1546.0	1569.9
60°	778.1	784.6	826.0	940.3	1107.5	1341.8	1604.8	1744.0	1789.2	1804.2	1838.4
62.5°	746.3	753.8	795.9	912.2	1139.0	1439.3	1851.1	2065.2	2123.4	2150.7	2187.7
65°	676.5	682.0	721.4	841.1	1130.1	1535.4	2057.0	2324.1	2377.1	2417.2	2483.2
67°	614.6	618.1	648.8	756.9	1043.2	1538.8	2122.0	2388.4	2434.6	2477.0	2545.1
67.5°	598.9	606.1	630.0	731.3	1010.7	1519.3	2117.5	2378.5	2425.7	2469.8	2541.7
70°	487.4	497.7	509.6	577.7	794.5	1278.2	1960.5	2206.8	2248.2	2289.2	2389.5
72.5°	300.6	319.1	321.5	364.6	517.2	883.5	1586.4	1861.0	1892.1	1921.6	2024.2
75°	177.2	179.9	188.5	223.3	303.4	528.1	1064.4	1382.5	1411.2	1425.6	1506.0
77.5°	98.8	101.6	108.8	138.9	233.3	355.7	619.8	812.3	829.8	847.9	834.9
80°	41.0	44.8	48.2	56.1	109.1	280.8	426.2	516.5	527.8	538.4	551.7
82.5°	19.8	21.2	26.0	29.8	39.7	115.3	334.2	447.7	461.1	476.5	507.6
85°	9.2	10.3	14.4	17.1	19.2	29.1	111.8	217.9	236.3	239.8	245.9
87.5°	0.7	0.7	1.7	2.4	3.4	3.8	11.6	16.4	18.5	16.8	21.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
2.5°	347.5	347.2	346.5	346.5	346.1	346.1	346.1	345.5	345.5	345.5	345.1
5°	356.7	356.4	355.4	355.4	354.7	354.7	353.7	353.3	352.6	352.6	352.3
7.5°	368.7	368.4	367.0	367.0	366.0	365.6	365.0	363.9	363.9	363.2	362.6
10°	385.1	384.1	383.8	382.1	382.4	381.7	381.0	380.0	379.3	378.6	377.9
12.5°	403.6	403.6	401.9	400.9	401.5	400.9	399.5	399.2	398.1	398.1	397.1
15°	421.0	421.0	420.4	419.0	419.3	418.3	418.0	417.3	415.9	416.3	415.9
17.5°	436.1	436.1	435.1	434.4	434.4	433.4	433.7	433.0	432.3	432.0	431.0
20°	448.1	448.1	447.4	446.7	447.0	447.0	446.0	446.0	446.0	445.3	445.3
22.5°	459.7	460.0	460.0	460.0	460.4	460.7	460.4	461.1	460.7	461.4	461.4
25°	475.1	476.1	476.8	476.8	478.5	478.8	479.2	480.2	480.2	481.2	481.6
27.5°	498.0	498.7	501.4	502.1	502.4	505.2	505.5	506.9	508.3	508.6	508.9
30°	529.5	531.2	533.2	534.6	534.6	538.0	539.4	538.7	542.5	543.5	544.9
32.5°	571.5	572.9	575.0	576.3	577.7	579.4	579.7	581.5	584.5	587.3	585.6
35°	624.6	628.0	624.6	628.3	629.3	631.7	631.1	633.1	634.5	635.5	635.2
37.5°	701.5	699.8	699.1	697.8	695.4	703.6	699.5	699.1	697.1	702.9	699.1
40°	802.8	803.8	804.8	799.3	796.3	796.3	795.2	791.5	789.8	794.9	794.2
42.5°	908.4	909.5	904.7	901.3	893.4	892.4	887.6	886.6	884.8	887.6	884.8
45°	1004.6	1005.2	994.6	996.3	990.2	991.2	983.7	986.8	982.7	985.4	990.5
47.5°	1112.0	1113.3	1104.1	1107.9	1101.7	1097.9	1097.6	1099.6	1095.2	1097.9	1099.3
50°	1209.4	1207.7	1202.9	1204.0	1201.2	1201.9	1197.8	1201.6	1196.4	1201.9	1201.2
52.5°	1296.0	1293.9	1292.9	1296.3	1293.9	1293.9	1291.5	1293.2	1293.9	1302.1	1303.8
55°	1401.0	1402.7	1404.4	1410.6	1413.3	1408.8	1413.3	1421.8	1422.2	1441.7	1452.3
57.5°	1569.6	1581.6	1587.7	1591.5	1607.6	1605.9	1616.1	1636.6	1638.7	1683.8	1710.2
60°	1863.7	1885.0	1905.1	1894.2	1926.7	1936.6	1942.8	1981.1	1993.0	2035.8	2058.7
62.5°	2235.2	2237.6	2269.1	2259.1	2277.6	2273.2	2280.7	2298.1	2313.9	2349.1	2370.6
65°	2494.5	2505.7	2518.1	2505.4	2505.1	2490.0	2480.4	2480.1	2489.7	2497.2	2521.1
67°	2564.9	2576.2	2579.3	2570.1	2556.7	2537.6	2519.8	2510.5	2504.4	2507.8	2522.9
67.5°	2564.2	2574.8	2578.6	2569.7	2551.2	2535.2	2516.4	2505.7	2497.5	2499.3	2511.9
70°	2418.5	2441.4	2453.8	2456.5	2454.1	2426.1	2410.0	2400.4	2393.6	2376.8	2375.8
72.5°	2049.1	2076.8	2086.4	2101.8	2108.6	2067.3	2049.8	2060.4	2036.5	1983.5	1985.9
75°	1504.6	1506.7	1474.5	1468.4	1445.4	1351.7	1323.7	1298.0	1257.0	1193.0	1132.8
77.5°	784.3	783.9	747.0	728.2	700.8	644.4	641.7	595.8	563.7	505.2	484.0
80°	557.2	566.1	578.4	584.5	575.0	553.1	523.0	490.5	453.2	416.6	372.8
82.5°	518.2	523.7	530.2	506.2	492.9	462.1	439.2	392.0	365.6	323.9	279.8
85°	252.1	268.8	255.8	240.8	235.7	184.4	178.2	148.8	135.1	111.2	103.6
87.5°	16.1	19.8	17.8	16.1	14.0	7.9	10.6	7.5	7.9	5.8	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



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
2.5°	345.1	344.8	344.4	344.1	343.7	343.7	343.4	343.1	342.7	342.0	342.0
5°	351.6	351.6	351.3	350.6	350.6	349.9	348.9	348.5	348.5	347.8	347.2
7.5°	362.2	361.9	361.2	360.8	360.2	359.5	358.8	358.1	357.8	356.7	356.4
10°	378.3	377.6	375.9	375.2	374.9	374.2	373.5	372.8	371.8	371.1	370.8
12.5°	396.4	396.1	394.7	395.4	393.7	393.0	392.3	390.6	391.3	389.9	389.2
15°	414.5	414.9	414.2	414.2	412.8	411.8	411.1	409.8	409.4	408.7	408.0
17.5°	430.6	431.3	430.3	429.6	428.9	428.2	426.9	425.5	425.5	424.1	423.4
20°	445.3	446.0	445.7	445.0	444.0	443.6	442.9	441.9	441.9	441.2	440.2
22.5°	462.1	462.4	462.4	462.1	461.1	461.4	460.7	459.7	460.0	458.7	458.7
25°	482.3	483.0	483.6	484.0	483.3	483.6	483.0	482.3	481.9	482.3	481.9
27.5°	510.0	510.7	512.7	511.0	512.7	513.1	512.0	510.7	511.7	513.4	512.4
30°	546.6	545.9	548.6	549.0	548.6	549.0	548.3	547.3	547.9	551.0	549.3
32.5°	587.6	589.0	589.7	590.4	591.4	592.7	591.7	590.7	592.4	591.4	593.8
35°	637.2	640.3	641.3	640.3	641.0	643.4	643.0	643.4	646.8	643.4	647.8
37.5°	699.8	702.9	705.3	703.9	705.6	705.6	708.4	715.9	711.1	717.2	722.0
40°	790.8	795.6	795.9	795.6	797.3	799.3	802.1	810.3	804.8	811.3	815.8
42.5°	884.5	890.3	892.4	888.9	892.7	897.2	897.5	904.7	905.0	906.1	908.4
45°	990.2	995.3	999.4	997.7	998.1	1003.9	1002.5	1009.3	1004.2	1004.2	1005.6
47.5°	1102.7	1107.5	1110.2	1113.0	1109.6	1114.7	1117.1	1115.7	1109.6	1108.2	1100.0
50°	1205.3	1209.4	1213.5	1221.1	1220.7	1223.1	1224.8	1218.7	1217.3	1209.8	1200.5
52.5°	1314.1	1324.7	1333.9	1349.7	1352.1	1360.3	1357.2	1346.9	1345.2	1332.9	1320.6
55°	1465.6	1496.1	1509.4	1533.7	1550.1	1549.8	1542.9	1541.2	1528.2	1503.6	1488.9
57.5°	1729.3	1776.9	1799.8	1831.3	1836.4	1833.3	1824.4	1808.7	1786.1	1744.7	1718.0
60°	2110.0	2139.4	2166.1	2173.6	2177.4	2171.6	2140.5	2105.6	2061.4	2004.3	1956.8
62.5°	2397.7	2427.8	2447.6	2444.5	2420.9	2391.2	2345.7	2287.2	2225.3	2161.3	2090.2
65°	2544.1	2556.7	2553.6	2529.7	2489.3	2437.3	2371.0	2298.8	2226.0	2150.4	2076.5
67°	2536.2	2536.5	2515.7	2469.2	2417.5	2352.2	2271.1	2192.4	2106.9	2027.6	1939.7
67.5°	2522.2	2520.8	2491.7	2440.8	2385.0	2317.6	2233.5	2152.1	2063.5	1983.5	1892.5
70°	2363.5	2344.3	2278.6	2197.2	2119.6	2028.6	1940.4	1847.0	1747.1	1678.4	1573.7
72.5°	1942.1	1877.4	1764.2	1679.1	1595.9	1476.9	1421.8	1305.9	1235.8	1192.0	1113.0
75°	1124.6	1070.6	983.0	903.3	863.0	792.5	759.0	673.8	656.0	655.3	628.0
77.5°	429.3	374.5	318.1	256.2	217.9	173.1	152.5	136.5	124.2	132.7	120.4
80°	321.9	264.7	206.9	150.5	107.4	79.4	68.1	62.9	59.9	57.5	55.8
82.5°	239.8	189.1	146.7	95.8	67.0	50.6	43.8	41.0	39.7	37.3	35.2
85°	81.1	65.0	51.3	35.6	28.0	22.9	21.2	20.5	19.5	17.8	16.8
87.5°	4.4	4.1	4.4	3.4	4.1	3.4	3.8	3.8	3.8	3.4	3.4
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: P151212

CATALOG NUMBER: TLM-E01-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3	340.3
2.5°	341.7	341.7	341.7	341.0	340.0	337.9	335.9	334.2	332.5	331.4	330.7
5°	346.8	346.1	345.8	345.5	343.1	339.0	335.2	331.8	328.4	325.6	324.6
7.5°	356.1	354.7	354.3	353.3	350.2	344.1	338.6	333.1	328.4	324.6	322.9
10°	370.1	370.1	368.0	366.7	363.2	355.0	347.2	340.0	333.5	329.4	328.4
12.5°	387.9	387.9	386.2	385.1	381.0	370.4	360.8	352.3	346.1	342.0	341.7
15°	406.3	406.0	404.6	403.3	398.8	387.5	377.9	370.4	365.3	360.5	359.1
17.5°	422.8	422.8	421.0	419.7	415.2	405.7	397.1	391.6	385.8	375.9	368.4
20°	439.2	439.5	438.1	436.8	433.0	424.8	421.0	415.6	402.6	381.0	363.2
22.5°	457.3	458.7	457.0	455.6	452.5	449.1	447.7	434.7	407.4	372.8	346.8
25°	480.6	483.0	480.9	480.2	478.5	479.5	475.4	445.3	400.5	355.0	322.5
27.5°	512.4	512.4	512.7	512.7	512.0	515.8	500.7	445.7	385.5	332.1	293.5
30°	549.7	551.7	551.0	551.0	553.8	556.1	514.8	438.1	366.3	303.7	257.9
32.5°	594.5	596.2	596.9	593.8	604.7	592.4	519.9	424.5	342.7	268.5	215.5
35°	648.5	650.9	652.6	652.9	660.1	623.9	517.2	404.3	308.9	224.4	169.0
37.5°	719.0	723.7	727.5	729.2	729.6	650.6	509.6	377.6	264.7	175.1	125.9
40°	812.7	817.8	816.8	820.2	800.7	666.3	492.5	339.0	210.0	128.6	97.1
42.5°	903.0	903.7	905.0	901.9	862.3	674.5	468.6	291.8	157.3	96.1	83.1
45°	1003.9	998.1	991.6	986.8	919.0	677.6	435.8	234.3	111.2	80.7	77.0
47.5°	1098.6	1090.8	1077.4	1063.7	969.7	672.8	393.7	175.5	84.5	73.9	72.9
50°	1191.7	1176.9	1158.1	1142.4	1018.2	665.6	347.2	126.6	73.9	70.5	69.4
52.5°	1306.9	1282.3	1257.7	1237.1	1081.5	654.3	298.3	96.1	69.4	67.7	66.4
55°	1464.9	1430.7	1391.1	1362.3	1167.4	637.2	246.9	81.4	67.4	66.0	64.0
57.5°	1683.8	1632.5	1587.7	1540.9	1284.7	619.8	202.8	75.6	67.0	65.0	62.3
60°	1907.5	1846.0	1788.8	1721.8	1404.4	602.3	172.0	74.9	68.1	65.0	60.9
62.5°	2023.8	1960.2	1891.5	1823.4	1456.0	561.3	150.8	75.9	70.5	66.0	60.9
65°	1997.1	1919.5	1849.7	1780.3	1396.2	483.6	127.6	77.3	75.2	70.1	61.9
67°	1863.1	1782.0	1715.0	1648.6	1262.8	405.0	109.5	78.7	80.4	74.9	64.0
67.5°	1815.9	1734.8	1668.8	1604.1	1223.5	388.6	105.0	79.4	81.4	76.3	64.6
70°	1505.6	1446.1	1376.0	1326.1	990.5	287.7	86.2	80.7	87.6	84.1	67.7
72.5°	1083.6	1026.8	974.1	946.4	729.6	201.1	72.5	79.4	91.3	88.6	69.1
75°	576.0	572.6	553.4	567.1	451.5	131.3	64.0	74.2	87.2	81.1	64.3
77.5°	116.3	119.7	140.6	138.5	145.7	73.2	54.7	63.6	67.4	59.5	52.3
80°	54.0	53.0	52.0	52.7	51.6	46.9	44.5	49.9	46.9	38.3	34.9
82.5°	33.5	32.8	31.8	31.5	34.9	37.3	39.0	39.3	31.1	26.7	25.7
85°	16.1	16.1	15.7	16.4	20.5	30.4	32.8	29.1	20.9	19.2	18.1
87.5°	3.1	3.1	3.4	3.1	4.1	7.2	8.2	9.6	7.9	8.2	9.2
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: P151212

CATALOG NUMBER: TLM-E01-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	340.3	340.3	340.3
2.5°	330.1	329.4	329.4
5°	323.2	322.9	322.9
7.5°	321.5	321.9	321.5
10°	328.0	327.7	329.0
12.5°	342.4	343.4	343.1
15°	357.4	358.1	358.1
17.5°	361.9	359.5	359.1
20°	350.2	345.8	344.8
22.5°	328.4	320.1	320.5
25°	300.6	290.7	291.4
27.5°	268.5	257.9	257.6
30°	229.8	218.2	212.4
32.5°	183.3	169.3	169.3
35°	137.8	126.6	122.4
37.5°	104.7	98.2	96.1
40°	87.2	84.1	83.5
42.5°	79.4	78.3	78.0
45°	75.2	74.6	74.2
47.5°	71.5	71.1	70.8
50°	68.7	68.4	68.1
52.5°	66.4	65.7	65.3
55°	62.9	62.9	62.9
57.5°	60.9	60.9	60.5
60°	58.8	58.5	58.5
62.5°	57.1	56.4	56.8
65°	56.1	55.1	55.1
67°	55.4	53.4	53.4
67.5°	55.4	52.7	52.7
70°	54.4	49.9	49.3
72.5°	53.4	46.9	45.8
75°	50.6	44.5	43.4
77.5°	43.4	39.7	39.0
80°	33.5	29.1	29.8
82.5°	24.3	20.9	20.5
85°	17.4	15.0	15.0
87.5°	9.2	7.9	8.2
90°	0.0	0.0	0.0

(END OF REPORT)