

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: P151210

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151210  
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  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

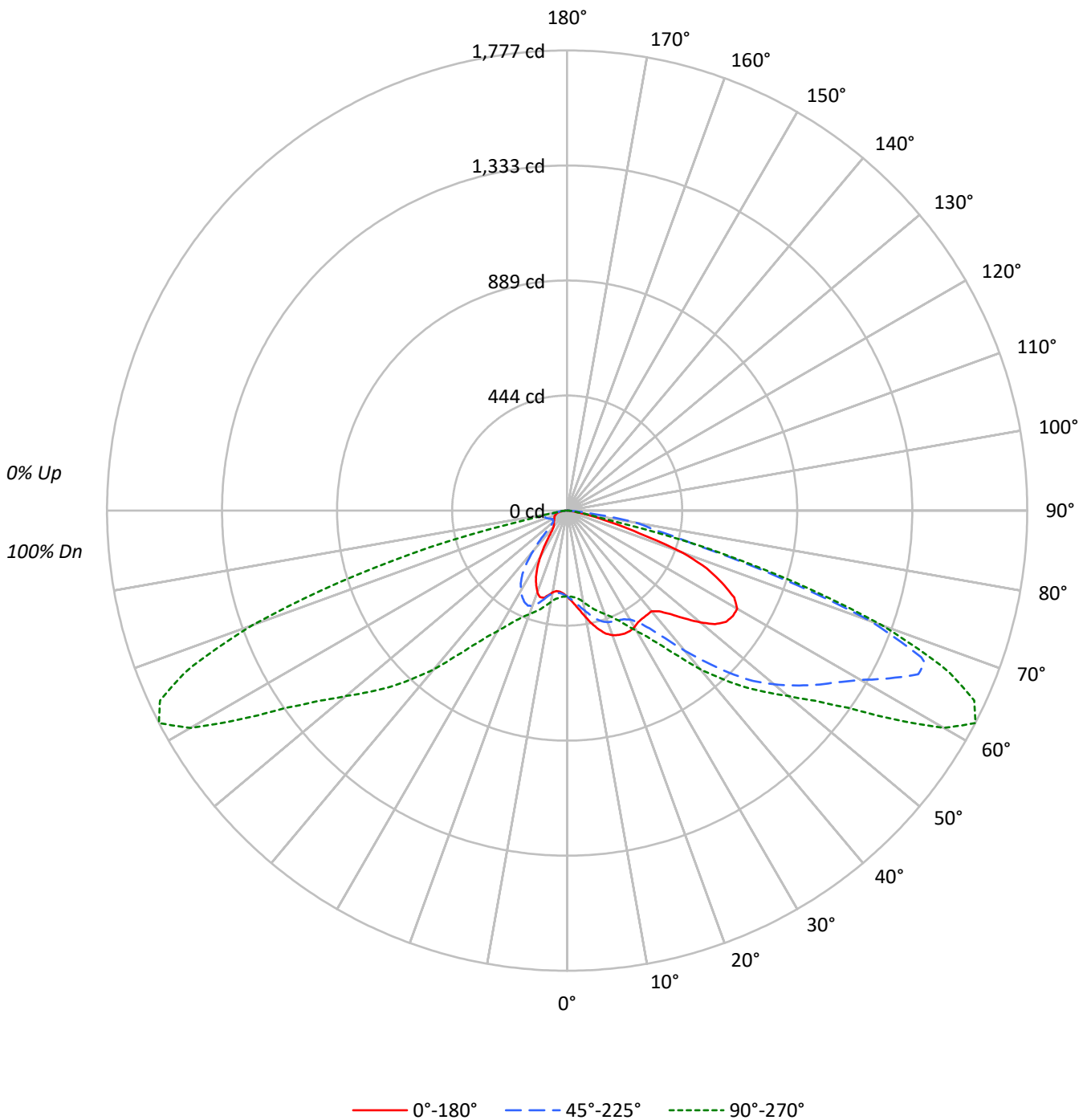
Lumens per Lamp: N/A  
Luminaire Lumens: 3036.2 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	21002	21002	21002
5°	23326	21400	20002
10°	26958	22972	20619
15°	31182	25761	22877
20°	34499	28684	22640
25°	36608	32696	19841
30°	37996	39261	15134
35°	39266	49183	9221
40°	41931	66066	6720
45°	50655	86114	6474
50°	66165	109664	6531
55°	82649	146565	6767
60°	96027	212492	7218
65°	98777	259940	8045
70°	87935	239240	8886
75°	42249	135212	10348
80°	14585	18705	10574
85°	6538	11624	10679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	1.1
10°-20°	113.2	3.7
20°-30°	199.9	6.6
30°-40°	287.0	9.5
40°-50°	435.8	14.4
50°-60°	641.7	21.1
60°-70°	852.8	28.1
70°-80°	417.2	13.7
80°-90°	55.4	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°	346.2	11.4
0°-40°	633.2	20.9
0°-60°	1710.7	56.3
0°-90°	3036.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3036.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	332	332	332	332	332	
5°	367	357	337	320	315	37
15°	476	433	393	356	349	135
25°	524	467	468	390	284	241
35°	508	555	636	301	119	320
45°	566	887	962	108	72	447
55°	749	1173	1328	66	61	661
65°	659	1496	1735	73	54	640
75°	173	515	553	85	42	215
85°	9	28	16	20	15	13
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°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	347.3	347.7	347.0	346.7	344.7	342.7	341.3	339.7	339.7	339.7	339.0
5°	367.0	365.7	366.7	364.3	360.3	356.7	353.0	350.0	349.3	349.3	348.0
7.5°	390.7	389.0	388.3	385.0	379.0	373.7	366.3	363.3	361.7	361.0	360.3
10°	419.3	419.3	415.0	409.3	401.3	392.0	384.0	378.7	378.3	378.3	375.3
12.5°	448.7	449.3	443.7	438.0	425.0	412.7	403.3	397.3	397.0	395.7	394.0
15°	475.7	474.0	470.3	462.0	447.7	433.0	421.3	415.3	414.0	412.7	411.7
17.5°	498.0	496.3	491.7	481.0	466.0	448.7	434.3	428.0	427.3	426.7	425.3
20°	512.0	510.7	504.0	491.7	476.0	458.3	443.0	438.7	437.3	437.3	436.7
22.5°	520.0	518.0	508.3	492.0	476.7	463.7	451.0	448.3	447.3	447.7	447.7
25°	524.0	522.3	508.7	485.3	470.7	467.0	461.7	460.0	460.3	460.7	461.3
27.5°	524.7	522.3	506.3	476.7	463.0	473.3	477.0	479.7	479.7	481.0	483.3
30°	519.7	517.0	501.7	470.0	459.7	486.0	500.7	507.7	510.3	509.7	515.0
32.5°	511.0	509.3	497.0	470.0	469.0	511.0	537.0	547.0	548.3	549.0	555.0
35°	508.0	507.7	502.3	486.0	498.0	555.0	594.7	602.3	604.0	604.0	608.3
37.5°	507.3	509.0	515.0	516.0	549.0	620.3	672.3	684.0	684.0	687.3	687.3
40°	507.3	511.0	533.7	560.7	611.3	705.3	777.3	790.7	790.7	794.3	792.3
42.5°	527.0	532.3	569.7	621.0	690.0	793.0	875.7	890.7	891.7	890.7	893.7
45°	565.7	570.3	615.7	689.3	771.0	887.0	969.7	987.7	984.0	986.3	987.3
47.5°	617.0	624.3	676.0	764.0	850.0	974.0	1075.0	1091.3	1090.0	1091.0	1086.7
50°	671.7	679.3	737.0	838.0	928.7	1044.0	1159.7	1184.0	1181.7	1183.3	1185.7
52.5°	720.0	724.7	780.3	893.7	988.3	1109.3	1224.7	1255.0	1260.3	1261.0	1262.7
55°	748.7	754.3	805.3	921.3	1031.7	1173.3	1299.0	1345.0	1355.3	1358.0	1365.3
57.5°	758.7	764.7	811.0	925.3	1055.3	1233.3	1402.7	1483.7	1492.3	1506.7	1530.0
60°	758.3	764.7	805.0	916.3	1079.3	1307.7	1564.0	1699.7	1743.7	1758.3	1791.7
62.5°	727.3	734.7	775.7	889.0	1110.0	1402.7	1804.0	2012.7	2069.3	2096.0	2132.0
65°	659.3	664.7	703.0	819.7	1101.3	1496.3	2004.7	2265.0	2316.7	2355.7	2420.0
67°	599.0	602.3	632.3	737.7	1016.7	1499.7	2068.0	2327.7	2372.7	2414.0	2480.3
67.5°	583.7	590.7	614.0	712.7	985.0	1480.7	2063.7	2318.0	2364.0	2407.0	2477.0
70°	475.0	485.0	496.7	563.0	774.3	1245.7	1910.7	2150.7	2191.0	2231.0	2328.7
72.5°	293.0	311.0	313.3	355.3	504.0	861.0	1546.0	1813.7	1844.0	1872.7	1972.7
75°	172.7	175.3	183.7	217.7	295.7	514.7	1037.3	1347.3	1375.3	1389.3	1467.7
77.5°	96.3	99.0	106.0	135.3	227.3	346.7	604.0	791.7	808.7	826.3	813.7
80°	40.0	43.7	47.0	54.7	106.3	273.7	415.3	503.3	514.3	524.7	537.7
82.5°	19.3	20.7	25.3	29.0	38.7	112.3	325.7	436.3	449.3	464.3	494.7
85°	9.0	10.0	14.0	16.7	18.7	28.3	109.0	212.3	230.3	233.7	239.7
87.5°	0.7	0.7	1.7	2.3	3.3	3.7	11.3	16.0	18.0	16.3	20.7
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	338.7	338.3	337.7	337.7	337.3	337.3	337.3	336.7	336.7	336.7	336.3
5°	347.7	347.3	346.3	346.3	345.7	345.7	344.7	344.3	343.7	343.7	343.3
7.5°	359.3	359.0	357.7	357.7	356.7	356.3	355.7	354.7	354.7	354.0	353.3
10°	375.3	374.3	374.0	372.3	372.7	372.0	371.3	370.3	369.7	369.0	368.3
12.5°	393.3	393.3	391.7	390.7	391.3	390.7	389.3	389.0	388.0	388.0	387.0
15°	410.3	410.3	409.7	408.3	408.7	407.7	407.3	406.7	405.3	405.7	405.3
17.5°	425.0	425.0	424.0	423.3	423.3	422.3	422.7	422.0	421.3	421.0	420.0
20°	436.7	436.7	436.0	435.3	435.7	435.7	434.7	434.7	434.7	434.0	434.0
22.5°	448.0	448.3	448.3	448.3	448.7	449.0	448.7	449.3	449.0	449.7	449.7
25°	463.0	464.0	464.7	464.7	466.3	466.7	467.0	468.0	468.0	469.0	469.3
27.5°	485.3	486.0	488.7	489.3	489.7	492.3	492.7	494.0	495.3	495.7	496.0
30°	516.0	517.7	519.7	521.0	521.0	524.3	525.7	525.0	528.7	529.7	531.0
32.5°	557.0	558.3	560.3	561.7	563.0	564.7	565.0	566.7	569.7	572.3	570.7
35°	608.7	612.0	608.7	612.3	613.3	615.7	615.0	617.0	618.3	619.3	619.0
37.5°	683.7	682.0	681.3	680.0	677.7	685.7	681.7	681.3	679.3	685.0	681.3
40°	782.3	783.3	784.3	779.0	776.0	776.0	775.0	771.3	769.7	774.7	774.0
42.5°	885.3	886.3	881.7	878.3	870.7	869.7	865.0	864.0	862.3	865.0	862.3
45°	979.0	979.7	969.3	971.0	965.0	966.0	958.7	961.7	957.7	960.3	965.3
47.5°	1083.7	1085.0	1076.0	1079.7	1073.7	1070.0	1069.7	1071.7	1067.3	1070.0	1071.3
50°	1178.7	1177.0	1172.3	1173.3	1170.7	1171.3	1167.3	1171.0	1166.0	1171.3	1170.7
52.5°	1263.0	1261.0	1260.0	1263.3	1261.0	1261.0	1258.7	1260.3	1261.0	1269.0	1270.7
55°	1365.3	1367.0	1368.7	1374.7	1377.3	1373.0	1377.3	1385.7	1386.0	1405.0	1415.3
57.5°	1529.7	1541.3	1547.3	1551.0	1566.7	1565.0	1575.0	1595.0	1597.0	1641.0	1666.7
60°	1816.3	1837.0	1856.7	1846.0	1877.7	1887.3	1893.3	1930.7	1942.3	1984.0	2006.3
62.5°	2178.3	2180.7	2211.3	2201.7	2219.7	2215.3	2222.7	2239.7	2255.0	2289.3	2310.3
65°	2431.0	2442.0	2454.0	2441.7	2441.3	2426.7	2417.3	2417.0	2426.3	2433.7	2457.0
67°	2499.7	2510.7	2513.7	2504.7	2491.7	2473.0	2455.7	2446.7	2440.7	2444.0	2458.7
67.5°	2499.0	2509.3	2513.0	2504.3	2486.3	2470.7	2452.3	2442.0	2434.0	2435.7	2448.0
70°	2357.0	2379.3	2391.3	2394.0	2391.7	2364.3	2348.7	2339.3	2332.7	2316.3	2315.3
72.5°	1997.0	2024.0	2033.3	2048.3	2055.0	2014.7	1997.7	2008.0	1984.7	1933.0	1935.3
75°	1466.3	1468.3	1437.0	1431.0	1408.7	1317.3	1290.0	1265.0	1225.0	1162.7	1104.0
77.5°	764.3	764.0	728.0	709.7	683.0	628.0	625.3	580.7	549.3	492.3	471.7
80°	543.0	551.7	563.7	569.7	560.3	539.0	509.7	478.0	441.7	406.0	363.3
82.5°	505.0	510.3	516.7	493.3	480.3	450.3	428.0	382.0	356.3	315.7	272.7
85°	245.7	262.0	249.3	234.7	229.7	179.7	173.7	145.0	131.7	108.3	101.0
87.5°	15.7	19.3	17.3	15.7	13.7	7.7	10.3	7.3	7.7	5.7	5.0
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°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	336.3	336.0	335.7	335.3	335.0	335.0	334.7	334.3	334.0	333.3	333.3
5°	342.7	342.7	342.3	341.7	341.7	341.0	340.0	339.7	339.7	339.0	338.3
7.5°	353.0	352.7	352.0	351.7	351.0	350.3	349.7	349.0	348.7	347.7	347.3
10°	368.7	368.0	366.3	365.7	365.3	364.7	364.0	363.3	362.3	361.7	361.3
12.5°	386.3	386.0	384.7	385.3	383.7	383.0	382.3	380.7	381.3	380.0	379.3
15°	404.0	404.3	403.7	403.7	402.3	401.3	400.7	399.3	399.0	398.3	397.7
17.5°	419.7	420.3	419.3	418.7	418.0	417.3	416.0	414.7	414.7	413.3	412.7
20°	434.0	434.7	434.3	433.7	432.7	432.3	431.7	430.7	430.7	430.0	429.0
22.5°	450.3	450.7	450.7	450.3	449.3	449.7	449.0	448.0	448.3	447.0	447.0
25°	470.0	470.7	471.3	471.7	471.0	471.3	470.7	470.0	469.7	470.0	469.7
27.5°	497.0	497.7	499.7	498.0	499.7	500.0	499.0	497.7	498.7	500.3	499.3
30°	532.7	532.0	534.7	535.0	534.7	535.0	534.3	533.3	534.0	537.0	535.3
32.5°	572.7	574.0	574.7	575.3	576.3	577.7	576.7	575.7	577.3	576.3	578.7
35°	621.0	624.0	625.0	624.0	624.7	627.0	626.7	627.0	630.3	627.0	631.3
37.5°	682.0	685.0	687.3	686.0	687.7	687.7	690.3	697.7	693.0	699.0	703.7
40°	770.7	775.3	775.7	775.3	777.0	779.0	781.7	789.7	784.3	790.7	795.0
42.5°	862.0	867.7	869.7	866.3	870.0	874.3	874.7	881.7	882.0	883.0	885.3
45°	965.0	970.0	974.0	972.3	972.7	978.3	977.0	983.7	978.7	978.7	980.0
47.5°	1074.7	1079.3	1082.0	1084.7	1081.3	1086.3	1088.7	1087.3	1081.3	1080.0	1072.0
50°	1174.7	1178.7	1182.7	1190.0	1189.7	1192.0	1193.7	1187.7	1186.3	1179.0	1170.0
52.5°	1280.7	1291.0	1300.0	1315.3	1317.7	1325.7	1322.7	1312.7	1311.0	1299.0	1287.0
55°	1428.3	1458.0	1471.0	1494.7	1510.7	1510.3	1503.7	1502.0	1489.3	1465.3	1451.0
57.5°	1685.3	1731.7	1754.0	1784.7	1789.7	1786.7	1778.0	1762.7	1740.7	1700.3	1674.3
60°	2056.3	2085.0	2111.0	2118.3	2122.0	2116.3	2086.0	2052.0	2009.0	1953.3	1907.0
62.5°	2336.7	2366.0	2385.3	2382.3	2359.3	2330.3	2286.0	2229.0	2168.7	2106.3	2037.0
65°	2479.3	2491.7	2488.7	2465.3	2426.0	2375.3	2310.7	2240.3	2169.3	2095.7	2023.7
67°	2471.7	2472.0	2451.7	2406.3	2356.0	2292.3	2213.3	2136.7	2053.3	1976.0	1890.3
67.5°	2458.0	2456.7	2428.3	2378.7	2324.3	2258.7	2176.7	2097.3	2011.0	1933.0	1844.3
70°	2303.3	2284.7	2220.7	2141.3	2065.7	1977.0	1891.0	1800.0	1702.7	1635.7	1533.7
72.5°	1892.7	1829.7	1719.3	1636.3	1555.3	1439.3	1385.7	1272.7	1204.3	1161.7	1084.7
75°	1096.0	1043.3	958.0	880.3	841.0	772.3	739.7	656.7	639.3	638.7	612.0
77.5°	418.3	365.0	310.0	249.7	212.3	168.7	148.7	133.0	121.0	129.3	117.3
80°	313.7	258.0	201.7	146.7	104.7	77.3	66.3	61.3	58.3	56.0	54.3
82.5°	233.7	184.3	143.0	93.3	65.3	49.3	42.7	40.0	38.7	36.3	34.3
85°	79.0	63.3	50.0	34.7	27.3	22.3	20.7	20.0	19.0	17.3	16.3
87.5°	4.3	4.0	4.3	3.3	4.0	3.3	3.7	3.7	3.7	3.3	3.3
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: P151210

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

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7
2.5°	333.0	333.0	333.0	332.3	331.3	329.3	327.3	325.7	324.0	323.0	322.3
5°	338.0	337.3	337.0	336.7	334.3	330.3	326.7	323.3	320.0	317.3	316.3
7.5°	347.0	345.7	345.3	344.3	341.3	335.3	330.0	324.7	320.0	316.3	314.7
10°	360.7	360.7	358.7	357.3	354.0	346.0	338.3	331.3	325.0	321.0	320.0
12.5°	378.0	378.0	376.3	375.3	371.3	361.0	351.7	343.3	337.3	333.3	333.0
15°	396.0	395.7	394.3	393.0	388.7	377.7	368.3	361.0	356.0	351.3	350.0
17.5°	412.0	412.0	410.3	409.0	404.7	395.3	387.0	381.7	376.0	366.3	359.0
20°	428.0	428.3	427.0	425.7	422.0	414.0	410.3	405.0	392.3	371.3	354.0
22.5°	445.7	447.0	445.3	444.0	441.0	437.7	436.3	423.7	397.0	363.3	338.0
25°	468.3	470.7	468.7	468.0	466.3	467.3	463.3	434.0	390.3	346.0	314.3
27.5°	499.3	499.3	499.7	499.7	499.0	502.7	488.0	434.3	375.7	323.7	286.0
30°	535.7	537.7	537.0	537.0	539.7	542.0	501.7	427.0	357.0	296.0	251.3
32.5°	579.3	581.0	581.7	578.7	589.3	577.3	506.7	413.7	334.0	261.7	210.0
35°	632.0	634.3	636.0	636.3	643.3	608.0	504.0	394.0	301.0	218.7	164.7
37.5°	700.7	705.3	709.0	710.7	711.0	634.0	496.7	368.0	258.0	170.7	122.7
40°	792.0	797.0	796.0	799.3	780.3	649.3	480.0	330.3	204.7	125.3	94.7
42.5°	880.0	880.7	882.0	879.0	840.3	657.3	456.7	284.3	153.3	93.7	81.0
45°	978.3	972.7	966.3	961.7	895.7	660.3	424.7	228.3	108.3	78.7	75.0
47.5°	1070.7	1063.0	1050.0	1036.7	945.0	655.7	383.7	171.0	82.3	72.0	71.0
50°	1161.3	1147.0	1128.7	1113.3	992.3	648.7	338.3	123.3	72.0	68.7	67.7
52.5°	1273.7	1249.7	1225.7	1205.7	1054.0	637.7	290.7	93.7	67.7	66.0	64.7
55°	1427.7	1394.3	1355.7	1327.7	1137.7	621.0	240.7	79.3	65.7	64.3	62.3
57.5°	1641.0	1591.0	1547.3	1501.7	1252.0	604.0	197.7	73.7	65.3	63.3	60.7
60°	1859.0	1799.0	1743.3	1678.0	1368.7	587.0	167.7	73.0	66.3	63.3	59.3
62.5°	1972.3	1910.3	1843.3	1777.0	1419.0	547.0	147.0	74.0	68.7	64.3	59.3
65°	1946.3	1870.7	1802.7	1735.0	1360.7	471.3	124.3	75.3	73.3	68.3	60.3
67°	1815.7	1736.7	1671.3	1606.7	1230.7	394.7	106.7	76.7	78.3	73.0	62.3
67.5°	1769.7	1690.7	1626.3	1563.3	1192.3	378.7	102.3	77.3	79.3	74.3	63.0
70°	1467.3	1409.3	1341.0	1292.3	965.3	280.3	84.0	78.7	85.3	82.0	66.0
72.5°	1056.0	1000.7	949.3	922.3	711.0	196.0	70.7	77.3	89.0	86.3	67.3
75°	561.3	558.0	539.3	552.7	440.0	128.0	62.3	72.3	85.0	79.0	62.7
77.5°	113.3	116.7	137.0	135.0	142.0	71.3	53.3	62.0	65.7	58.0	51.0
80°	52.7	51.7	50.7	51.3	50.3	45.7	43.3	48.7	45.7	37.3	34.0
82.5°	32.7	32.0	31.0	30.7	34.0	36.3	38.0	38.3	30.3	26.0	25.0
85°	15.7	15.7	15.3	16.0	20.0	29.7	32.0	28.3	20.3	18.7	17.7
87.5°	3.0	3.0	3.3	3.0	4.0	7.0	8.0	9.3	7.7	8.0	9.0
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: P151210

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

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	331.7	331.7	331.7
2.5°	321.7	321.0	321.0
5°	315.0	314.7	314.7
7.5°	313.3	313.7	313.3
10°	319.7	319.3	320.7
12.5°	333.7	334.7	334.3
15°	348.3	349.0	349.0
17.5°	352.7	350.3	350.0
20°	341.3	337.0	336.0
22.5°	320.0	312.0	312.3
25°	293.0	283.3	284.0
27.5°	261.7	251.3	251.0
30°	224.0	212.7	207.0
32.5°	178.7	165.0	165.0
35°	134.3	123.3	119.3
37.5°	102.0	95.7	93.7
40°	85.0	82.0	81.3
42.5°	77.3	76.3	76.0
45°	73.3	72.7	72.3
47.5°	69.7	69.3	69.0
50°	67.0	66.7	66.3
52.5°	64.7	64.0	63.7
55°	61.3	61.3	61.3
57.5°	59.3	59.3	59.0
60°	57.3	57.0	57.0
62.5°	55.7	55.0	55.3
65°	54.7	53.7	53.7
67°	54.0	52.0	52.0
67.5°	54.0	51.3	51.3
70°	53.0	48.7	48.0
72.5°	52.0	45.7	44.7
75°	49.3	43.3	42.3
77.5°	42.3	38.7	38.0
80°	32.7	28.3	29.0
82.5°	23.7	20.3	20.0
85°	17.0	14.7	14.7
87.5°	9.0	7.7	8.0
90°	0.0	0.0	0.0

(END OF REPORT)