

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: P152945

Luminaire Tested: **TLM-F03-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152945
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-F03-LED-E1-SLL
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

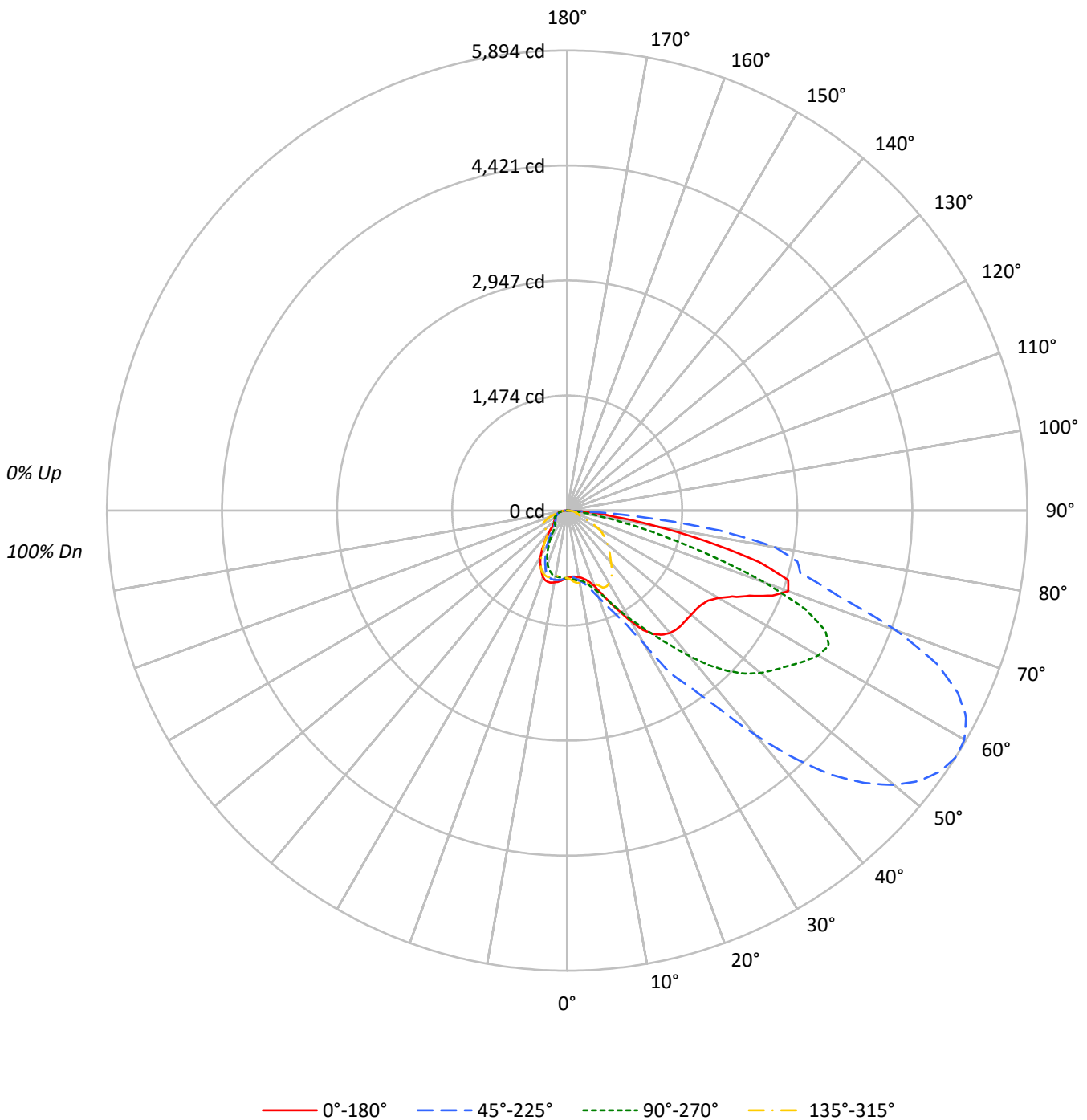
Lumens per Lamp: N/A
Luminaire Lumens: 6891.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 78.3
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



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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°	18643	18643	18643	18643
5°	18321	19125	19533	18643
10°	18948	19886	20411	18714
15°	20442	21489	21104	18215
20°	23622	24946	20804	16795
25°	30924	30552	18981	14178
30°	40755	39646	16931	10980
35°	50766	51310	13561	7506
40°	57534	68230	9929	6565
45°	63085	88366	7465	6887
50°	69451	108324	7134	7050
55°	78732	129979	7281	7218
60°	96285	159840	7927	7927
65°	131326	185994	8369	8242
70°	189660	169292	8831	8730
75°	211553	109586	9748	9199
80°	144615	53222	11158	9930
85°	93787	25886	13462	12227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.2
10°-20°	262.5	3.8
20°-30°	466.4	6.8
30°-40°	734.5	10.7
40°-50°	1080.9	15.7
50°-60°	1435.8	20.8
60°-70°	1581.5	23.0
70°-80°	992.2	14.4
80°-90°	252.7	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°	813.3	11.8
0°-40°	1547.7	22.5
0°-60°	4064.5	59.0
0°-90°	6891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6891.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	848	885	904	863	848	82
15°	917	964	947	817	917	266
25°	1302	1286	799	597	1302	614
35°	1932	1952	516	286	1932	1197
45°	2072	2902	245	226	2072	1602
55°	2098	3463	194	192	2098	1903
65°	2578	3651	164	162	2578	2596
75°	2543	1318	117	111	2543	2487
85°	380	105	54	50	380	439
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°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	854.4	856.1	856.1	855.2	855.2	856.9	856.1	855.2	852.8	856.1	856.1
5°	847.8	849.5	849.5	851.1	852.8	854.4	854.4	856.1	855.2	858.5	861.0
7.5°	856.1	857.7	861.0	865.2	867.6	873.4	873.4	877.5	879.2	881.7	880.8
10°	866.8	870.9	878.4	885.0	889.9	896.5	901.5	907.3	907.3	909.7	911.4
12.5°	885.8	889.9	898.2	906.4	913.9	922.1	929.5	935.3	941.1	942.7	946.1
15°	917.2	922.1	934.5	946.1	955.1	965.9	975.8	987.3	998.1	1000.5	1002.2
17.5°	964.2	974.1	983.2	1003.8	1017.0	1031.1	1046.8	1063.3	1066.6	1083.9	1088.0
20°	1031.1	1043.5	1051.7	1077.3	1099.6	1117.8	1140.9	1159.9	1167.3	1183.8	1200.3
22.5°	1146.7	1144.2	1156.6	1182.2	1198.7	1235.0	1254.8	1274.6	1284.5	1309.3	1322.5
25°	1301.9	1315.1	1342.3	1344.8	1360.5	1402.6	1428.2	1448.0	1448.8	1456.2	1470.3
27.5°	1454.6	1509.1	1552.0	1575.1	1617.2	1656.0	1654.4	1682.4	1638.7	1647.7	1661.0
30°	1639.5	1730.3	1811.2	1865.7	1908.6	1954.0	1976.3	1992.0	1973.0	1964.7	1949.1
32.5°	1812.9	1940.0	2064.6	2161.2	2241.3	2316.4	2366.0	2388.2	2414.7	2481.5	2505.5
35°	1931.7	2111.7	2266.9	2406.4	2540.1	2659.8	2746.5	2796.1	2777.1	2768.0	2763.0
37.5°	2002.7	2222.3	2416.3	2613.6	2767.2	2946.3	3080.9	3211.3	3241.0	3189.0	3163.4
40°	2047.3	2307.3	2556.7	2789.4	2988.4	3219.5	3386.3	3582.0	3730.5	3750.4	3689.3
42.5°	2068.8	2364.3	2654.9	2918.2	3187.4	3470.5	3681.8	3918.8	4140.8	4293.6	4255.6
45°	2072.1	2401.5	2726.7	3034.6	3354.9	3690.9	3963.3	4225.9	4523.1	4784.7	4792.2
47.5°	2072.1	2429.5	2776.2	3118.8	3505.2	3882.4	4179.6	4490.0	4854.1	5163.7	5258.6
50°	2073.7	2448.5	2822.5	3184.9	3619.9	4044.2	4380.2	4746.8	5129.8	5466.6	5649.9
52.5°	2081.1	2462.5	2858.8	3231.9	3694.2	4158.2	4536.3	4958.9	5340.3	5686.2	5923.1
55°	2097.7	2482.4	2885.2	3260.8	3743.8	4232.5	4649.4	5104.2	5476.5	5827.4	6158.4
57.5°	2143.9	2517.0	2917.4	3286.4	3771.0	4281.2	4728.6	5167.0	5528.5	5894.2	6283.1
60°	2236.3	2590.5	2972.7	3337.6	3816.4	4371.2	4766.6	5124.9	5490.6	5874.4	6311.1
62.5°	2384.1	2705.2	3049.5	3424.3	3946.0	4510.7	4737.7	4999.4	5341.1	5759.7	6211.2
63°	2435.3	2730.0	3066.8	3443.3	3981.5	4536.3	4725.3	4962.2	5310.6	5723.4	6175.8
65°	2578.1	2839.8	3149.4	3539.0	4127.6	4561.9	4628.7	4769.1	5099.3	5516.2	5966.1
67.5°	2844.8	3106.5	3326.9	3700.8	4250.6	4461.1	4329.1	4346.4	4691.5	5123.2	5527.7
70°	3013.2	3325.2	3440.0	3721.5	4228.3	4311.7	3941.1	3711.6	3988.1	4480.1	4834.3
72.5°	2969.4	3327.7	3315.3	3446.6	3782.6	3860.2	3476.3	3114.7	3279.0	3646.3	3875.8
75°	2543.4	2971.9	2881.1	2854.7	2972.7	3023.9	2735.8	2680.5	2887.7	3091.6	3094.9
77.5°	1831.0	2302.4	2195.9	2043.2	2034.9	2153.0	2191.8	2554.2	2860.4	3021.4	2950.4
80°	1166.5	1677.5	1566.8	1300.2	1296.1	1449.6	1790.6	2283.4	2607.8	2697.8	2512.9
82.5°	609.2	1097.9	1140.0	975.8	1116.9	1371.2	1703.9	1840.1	1963.1	1975.5	1757.5
85°	379.7	675.3	794.2	819.7	1008.8	1216.0	1213.5	1165.6	1111.2	951.0	860.2
87.5°	42.9	85.0	128.8	122.2	164.3	230.3	287.3	168.4	118.1	42.9	59.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	857.7	858.5	859.4	859.4	863.5	862.7	863.5	865.2	867.6	869.3	870.9
5°	864.3	864.3	867.6	870.1	875.1	878.4	880.0	885.0	890.7	889.1	894.0
7.5°	885.8	885.0	888.3	889.9	894.0	899.8	899.0	903.1	908.1	909.7	913.9
10°	914.7	912.2	912.2	910.6	911.4	909.7	909.7	909.7	913.0	912.2	915.5
12.5°	944.4	943.6	941.9	937.0	937.0	930.4	927.1	922.9	922.1	916.3	917.2
15°	1005.5	1005.5	1002.2	992.3	984.0	978.2	970.0	964.2	956.0	945.2	939.4
17.5°	1094.6	1083.1	1079.0	1077.3	1064.1	1059.1	1041.0	1022.0	1012.9	998.1	989.8
20°	1203.6	1201.1	1184.6	1176.4	1159.9	1136.7	1113.6	1088.9	1074.0	1055.8	1045.9
22.5°	1326.6	1308.5	1300.2	1287.8	1262.2	1235.8	1201.1	1168.1	1145.0	1132.6	1125.2
25°	1470.3	1452.1	1443.8	1427.3	1396.0	1367.9	1325.0	1286.2	1265.5	1244.9	1233.3
27.5°	1661.0	1643.6	1633.7	1590.8	1580.1	1533.8	1481.0	1428.2	1400.9	1370.4	1350.6
30°	1945.8	1946.6	1895.4	1843.4	1789.7	1709.7	1654.4	1594.9	1550.3	1506.6	1462.8
32.5°	2427.0	2304.0	2209.1	2097.7	1981.3	1896.2	1827.7	1756.7	1694.8	1631.2	1558.6
35°	2720.9	2661.5	2538.5	2334.6	2217.4	2114.2	2038.2	1952.4	1876.4	1764.1	1653.5
37.5°	3052.8	2914.9	2765.5	2652.4	2519.5	2399.8	2272.7	2175.3	2044.0	1892.9	1736.1
40°	3537.4	3340.1	3160.1	3008.2	2836.5	2711.0	2569.0	2427.9	2253.7	2034.9	1819.5
42.5°	4043.4	3839.5	3601.8	3404.5	3202.2	3055.3	2879.4	2681.3	2425.4	2154.6	1891.3
45°	4574.2	4301.8	4017.0	3776.0	3565.4	3383.0	3165.1	2902.5	2590.5	2261.9	1958.1
47.5°	5097.6	4784.7	4445.5	4186.2	3912.2	3689.3	3421.8	3089.9	2719.3	2363.5	2025.0
50°	5559.1	5257.8	4849.1	4519.7	4242.4	3967.5	3634.0	3234.4	2820.8	2451.0	2085.3
52.5°	5957.0	5697.8	5267.7	4851.6	4532.1	4223.4	3804.8	3350.8	2923.2	2531.9	2134.8
55°	6249.2	6076.7	5680.4	5164.5	4787.2	4419.0	3949.3	3463.1	3019.8	2596.3	2167.0
57.5°	6469.6	6373.9	6033.8	5459.2	5021.7	4608.9	4098.7	3597.6	3115.5	2651.6	2181.9
60°	6590.2	6616.6	6301.2	5716.8	5228.9	4767.4	4248.2	3712.4	3186.5	2683.8	2173.6
62.5°	6578.6	6740.4	6501.8	5875.3	5349.4	4861.5	4348.9	3766.0	3176.6	2632.6	2098.5
63°	6556.3	6744.5	6524.1	5886.0	5356.8	4864.8	4351.3	3758.6	3156.0	2607.8	2068.8
65°	6364.0	6649.6	6505.1	5837.3	5290.8	4802.9	4299.3	3651.3	3010.7	2474.9	1916.0
67.5°	5848.8	6206.3	6165.0	5493.0	4977.9	4547.0	4033.5	3305.4	2651.6	2148.0	1623.8
70°	4997.7	5333.7	5341.1	4777.3	4347.2	3924.5	3497.7	2689.6	2101.8	1665.1	1211.0
72.5°	3830.4	4046.7	4121.8	3750.4	3462.3	3165.1	2782.0	1952.4	1498.3	1132.6	788.4
75°	2966.1	2906.7	2905.8	2749.0	2631.8	2486.5	2065.5	1317.5	984.0	736.4	482.1
77.5°	2666.4	2402.3	2146.4	1958.1	1864.0	1815.3	1354.7	794.2	580.3	423.5	277.4
80°	2199.2	1809.6	1462.0	1258.9	1178.0	1234.2	755.4	429.3	317.8	241.1	180.0
82.5°	1516.5	1258.9	956.8	792.5	680.2	711.6	386.3	219.6	146.9	134.6	111.4
85°	790.0	692.6	584.5	501.9	443.3	389.6	200.6	104.8	61.1	53.7	48.7
87.5°	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	873.4	872.6	874.2	875.1	877.5	879.2	880.0	878.4	880.8	883.3	881.7
5°	896.5	902.3	903.1	905.6	905.6	910.6	910.6	910.6	909.7	910.6	908.9
7.5°	916.3	923.8	924.6	927.9	928.7	934.5	932.0	933.7	933.7	929.5	927.9
10°	918.8	926.2	930.4	934.5	940.3	947.7	947.7	951.8	951.8	948.5	947.7
12.5°	919.6	925.4	929.5	935.3	943.6	954.3	960.1	965.9	968.3	967.5	965.0
15°	937.0	937.0	937.8	942.7	948.5	961.7	970.0	976.6	980.7	979.1	974.9
17.5°	982.4	975.8	970.8	962.6	964.2	970.8	975.8	981.5	982.4	980.7	974.1
20°	1035.2	1027.0	1014.6	1001.4	994.8	989.8	986.5	986.5	984.0	975.8	965.0
22.5°	1110.3	1099.6	1082.3	1062.5	1049.2	1033.6	1014.6	996.4	976.6	956.8	933.7
25°	1214.3	1199.5	1181.3	1150.8	1122.7	1089.7	1050.9	1010.4	963.4	922.1	888.3
27.5°	1319.2	1286.2	1239.1	1197.0	1145.0	1095.5	1040.2	990.6	930.4	880.8	843.7
30°	1405.9	1343.1	1275.4	1208.6	1140.0	1073.2	1007.1	947.7	881.7	831.3	795.0
32.5°	1472.7	1386.1	1291.9	1204.4	1120.2	1038.5	962.6	896.5	829.7	777.6	738.8
35°	1534.7	1414.1	1294.4	1186.3	1082.3	997.2	911.4	839.6	768.6	714.1	672.0
37.5°	1580.9	1427.3	1279.6	1152.4	1032.7	937.8	850.3	776.8	704.2	644.7	596.9
40°	1610.6	1419.1	1247.4	1103.7	974.1	874.2	785.1	709.1	639.0	573.7	516.0
42.5°	1634.5	1408.3	1215.2	1059.1	927.9	818.9	727.3	645.6	574.6	503.6	440.0
45°	1670.0	1416.6	1201.1	1027.8	886.6	771.9	671.2	586.1	511.8	442.5	381.4
47.5°	1704.7	1420.7	1180.5	989.0	834.6	723.2	620.8	538.2	462.3	398.7	342.6
50°	1736.1	1418.3	1148.3	939.4	784.2	674.5	575.4	492.8	417.7	359.1	306.3
52.5°	1750.9	1404.2	1108.7	891.6	743.8	631.5	530.8	450.7	376.4	321.1	272.4
55°	1749.3	1367.9	1056.7	846.2	699.2	586.1	487.1	407.8	340.9	289.8	247.7
57.5°	1724.5	1311.8	1001.4	795.8	640.6	530.0	435.9	359.1	303.0	260.0	224.5
60°	1672.5	1239.9	928.7	722.3	567.1	460.6	372.3	306.3	260.9	227.8	204.7
62.5°	1575.1	1136.7	837.9	620.0	468.1	370.7	293.9	251.0	217.1	197.3	186.6
63°	1546.2	1108.7	799.1	595.2	445.0	350.0	277.4	232.8	208.0	190.7	180.8
65°	1402.6	970.8	668.7	480.5	345.9	269.9	222.9	189.0	174.2	166.8	165.9
67.5°	1135.9	763.6	473.0	329.4	235.3	194.8	170.9	156.8	150.2	148.6	150.2
70°	797.5	482.1	300.5	218.8	174.2	156.8	146.1	140.3	136.2	137.0	138.7
72.5°	508.5	288.9	206.4	165.9	146.9	137.9	132.9	131.3	130.4	129.6	129.6
75°	289.8	192.3	158.5	143.6	133.7	126.3	122.2	120.5	121.4	122.2	120.5
77.5°	191.5	158.5	141.2	131.3	122.2	113.9	111.4	110.6	112.3	113.9	113.9
80°	151.1	141.2	131.3	121.4	106.5	100.7	102.4	103.2	102.4	103.2	100.7
82.5°	106.5	104.8	107.3	103.2	88.3	83.4	81.7	82.6	80.9	80.9	79.3
85°	49.5	49.5	52.0	52.0	50.4	51.2	55.3	60.3	62.7	60.3	57.0
87.5°	0.0	0.0	0.0	0.0	0.0	7.4	14.9	21.5	23.1	28.9	28.1
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: P152945

CATALOG NUMBER: TLM-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	879.2	880.8	880.0	879.2	880.8	879.2	880.0	879.2	879.2	878.4	878.4
5°	907.3	909.7	904.8	903.9	902.3	898.2	898.2	896.5	896.5	893.2	890.7
7.5°	925.4	926.2	922.1	921.3	917.2	913.0	909.7	906.4	905.6	903.1	898.2
10°	942.7	941.1	937.8	933.7	929.5	923.8	919.6	915.5	914.7	910.6	904.8
12.5°	957.6	956.8	950.2	946.1	939.4	933.7	928.7	923.8	921.3	916.3	908.1
15°	967.5	962.6	954.3	946.9	939.4	932.8	927.1	921.3	918.8	913.0	904.8
17.5°	963.4	954.3	943.6	934.5	924.6	916.3	911.4	905.6	901.5	898.2	886.6
20°	948.5	935.3	918.8	908.1	894.9	884.1	880.8	875.1	871.8	859.4	844.5
22.5°	909.7	890.7	870.1	854.4	839.6	828.8	820.6	814.8	806.5	799.1	776.0
25°	861.0	839.6	818.1	799.1	779.3	762.8	747.9	733.9	729.8	714.1	691.8
27.5°	814.0	790.0	768.6	746.3	720.7	700.0	674.5	654.6	641.4	624.9	604.3
30°	763.6	739.7	710.8	681.1	651.3	629.0	600.2	576.2	559.7	542.4	523.4
32.5°	700.0	671.2	636.5	603.5	576.2	549.8	520.9	497.8	481.3	465.6	447.4
35°	627.4	589.4	552.3	516.0	487.1	464.8	439.2	421.8	410.3	396.3	377.3
37.5°	544.0	501.1	461.5	433.4	407.8	386.3	368.2	357.5	345.1	337.6	326.1
40°	459.8	417.7	378.9	353.3	331.9	319.5	309.6	307.1	298.8	288.9	281.5
42.5°	385.5	345.1	307.1	286.5	272.4	269.1	264.2	264.2	260.0	252.6	247.7
45°	335.2	293.1	260.0	245.2	237.8	236.9	234.4	234.4	233.6	230.3	224.5
47.5°	298.8	260.9	235.3	226.2	224.5	222.9	220.4	219.6	218.8	216.3	213.0
50°	265.8	233.6	217.1	213.0	213.8	211.3	208.9	206.4	205.6	203.1	199.8
52.5°	235.3	212.2	201.4	199.0	199.0	199.0	197.3	197.3	195.6	194.8	191.5
55°	217.9	200.6	194.8	194.0	193.2	192.3	190.7	190.7	189.0	188.2	184.1
57.5°	203.1	192.3	189.0	187.4	186.6	184.9	184.1	184.1	184.1	184.1	179.1
60°	191.5	186.6	185.7	184.1	183.3	180.0	178.3	177.5	178.3	179.1	174.2
62.5°	179.1	178.3	177.5	175.8	175.0	171.7	169.2	167.6	169.2	170.9	170.1
63°	175.8	175.0	175.0	174.2	173.4	169.2	166.8	165.1	166.8	168.4	168.4
65°	164.3	165.1	165.1	164.3	163.5	161.0	157.7	156.0	156.8	159.3	160.2
67.5°	151.9	152.7	151.9	152.7	151.9	150.2	147.8	146.1	145.3	146.1	146.9
70°	140.3	142.0	141.2	140.3	139.5	139.5	137.9	135.4	134.6	133.7	133.7
72.5°	130.4	130.4	128.8	128.8	128.0	128.0	126.3	123.8	123.0	123.0	121.4
75°	119.7	119.7	117.2	117.2	115.6	116.4	114.7	112.3	111.4	111.4	110.6
77.5°	113.1	110.6	106.5	105.7	104.8	104.8	104.0	101.5	100.7	100.7	99.9
80°	99.9	94.9	90.8	90.0	90.8	92.5	92.5	90.8	90.8	90.8	90.8
82.5°	77.6	75.9	73.5	71.8	71.8	74.3	77.6	79.3	80.9	82.6	82.6
85°	57.0	57.8	57.0	54.5	53.7	56.1	59.4	62.7	63.6	66.9	66.0
87.5°	30.5	31.4	28.9	28.1	30.5	32.2	35.5	36.3	38.0	38.8	39.6
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: P152945

CATALOG NUMBER: TLM-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	877.5	876.7	877.5	875.9	875.9	874.2	872.6	871.8	870.1	869.3	867.6
5°	892.4	889.9	887.4	886.6	883.3	880.0	877.5	873.4	870.1	864.3	862.7
7.5°	902.3	896.5	893.2	892.4	887.4	885.0	879.2	874.2	869.3	861.8	859.4
10°	906.4	900.6	894.9	892.4	886.6	882.5	876.7	869.3	865.2	857.7	856.1
12.5°	911.4	900.6	891.6	885.0	876.7	867.6	861.8	857.7	851.9	847.8	846.2
15°	902.3	888.3	874.2	861.8	848.6	838.7	833.0	826.4	819.7	817.3	817.3
17.5°	877.5	859.4	835.4	819.7	805.7	795.0	787.6	780.9	780.1	776.8	778.5
20°	826.4	802.4	779.3	767.7	759.5	752.9	745.4	742.1	739.7	734.7	733.1
22.5°	755.4	735.5	719.0	710.8	704.2	695.9	689.3	679.4	676.9	672.0	669.5
25°	676.9	661.2	647.2	641.4	637.3	625.7	621.6	608.4	599.3	593.6	596.9
27.5°	598.5	586.9	573.7	566.3	563.8	553.1	549.0	534.1	526.7	526.7	518.4
30°	517.6	506.9	498.6	490.4	488.7	475.5	464.8	459.0	450.7	447.4	441.7
32.5°	441.7	430.9	424.3	420.2	413.6	402.9	392.1	382.2	369.0	364.1	361.6
35°	371.5	363.2	355.0	351.7	342.6	331.0	317.8	309.6	293.9	288.1	285.6
37.5°	317.8	307.9	302.1	293.1	284.0	271.6	261.7	254.3	248.5	246.0	246.0
40°	274.9	267.5	260.9	253.4	246.0	239.4	234.4	232.8	232.0	232.0	233.6
42.5°	242.7	236.1	232.8	228.7	226.2	226.2	225.4	226.2	227.0	227.8	230.3
45°	221.2	217.1	215.5	214.6	216.3	217.9	218.8	220.4	223.7	225.4	226.2
47.5°	209.7	206.4	205.6	206.4	208.9	212.2	215.5	217.9	220.4	221.2	222.1
50°	198.1	194.0	192.3	194.0	197.3	202.3	204.7	208.9	210.5	212.2	210.5
52.5°	188.2	184.9	184.1	184.1	187.4	190.7	194.0	197.3	198.1	198.1	197.3
55°	180.0	177.5	175.0	176.7	179.1	182.4	187.4	189.9	191.5	192.3	192.3
57.5°	173.4	170.9	168.4	170.1	172.5	175.8	180.8	183.3	184.9	187.4	188.2
60°	168.4	165.1	162.6	165.1	167.6	172.5	176.7	179.1	183.3	184.1	184.1
62.5°	163.5	160.2	156.0	158.5	158.5	161.0	165.1	168.4	172.5	174.2	174.2
63°	162.6	159.3	155.2	156.8	156.8	158.5	161.8	165.1	170.1	171.7	170.9
65°	156.0	155.2	151.1	151.1	149.4	151.1	153.5	156.8	159.3	161.8	161.8
67.5°	145.3	144.5	143.6	143.6	143.6	145.3	146.9	149.4	151.9	153.5	152.7
70°	132.9	132.9	132.9	133.7	133.7	135.4	136.2	135.4	137.9	139.5	138.7
72.5°	122.2	121.4	120.5	122.2	121.4	121.4	123.0	122.2	124.7	124.7	125.5
75°	110.6	109.8	109.8	110.6	109.0	107.3	108.1	108.1	109.0	109.0	110.6
77.5°	100.7	100.7	100.7	99.9	98.2	97.4	96.6	96.6	96.6	96.6	97.4
80°	91.6	91.6	91.6	90.8	89.2	87.5	85.9	85.0	84.2	80.1	80.1
82.5°	82.6	82.6	82.6	82.6	81.7	80.1	77.6	71.0	67.7	64.4	65.2
85°	65.2	66.9	68.5	71.0	70.2	70.2	65.2	57.0	52.0	48.7	49.5
87.5°	42.1	37.1	37.1	36.3	34.7	33.0	33.0	28.1	23.1	20.6	21.5
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: P152945

CATALOG NUMBER: TLM-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	867.6	866.0	864.3	864.3	861.8	861.8	860.2	863.5	860.2	857.7	857.7
5°	861.0	859.4	854.4	853.6	850.3	850.3	850.3	848.6	848.6	847.0	846.2
7.5°	856.9	852.8	848.6	846.2	846.2	844.5	847.8	846.2	847.0	847.0	847.8
10°	853.6	850.3	848.6	847.8	847.8	850.3	852.8	853.6	852.8	853.6	853.6
12.5°	845.3	847.0	847.8	851.1	855.2	860.2	866.0	866.8	868.5	868.5	870.1
15°	818.9	823.0	828.0	836.3	847.0	857.7	868.5	877.5	885.8	889.9	893.2
17.5°	781.8	785.9	795.0	804.1	818.1	833.8	851.9	867.6	885.0	900.6	916.3
20°	731.4	738.0	740.5	757.0	773.5	795.0	816.4	841.2	870.9	900.6	931.2
22.5°	666.2	673.6	685.2	698.4	715.7	742.1	767.7	806.5	846.2	888.3	936.1
25°	593.6	601.8	611.7	625.7	643.1	671.2	708.3	749.6	798.3	853.6	913.0
27.5°	518.4	526.7	534.9	544.8	564.7	594.4	638.1	681.1	734.7	795.0	864.3
30°	443.3	444.1	449.1	461.5	482.1	520.9	553.1	606.8	662.9	726.5	806.5
32.5°	360.8	359.9	365.7	376.4	396.3	433.4	473.0	525.0	580.3	660.4	743.0
35°	287.3	287.3	298.0	308.7	331.0	357.5	392.1	438.4	503.6	577.9	660.4
37.5°	248.5	254.3	260.9	271.6	288.9	309.6	340.1	380.6	431.7	502.7	578.7
40°	236.1	239.4	245.2	255.1	269.9	288.9	311.2	341.8	381.4	438.4	507.7
42.5°	231.1	232.0	235.3	242.7	255.9	274.9	298.0	325.3	355.0	395.4	455.7
45°	226.2	225.4	227.0	232.8	243.5	265.0	291.4	321.1	350.8	384.7	434.2
47.5°	222.1	222.1	222.1	224.5	234.4	255.9	286.5	321.1	356.6	394.6	443.3
50°	210.5	209.7	209.7	211.3	218.8	241.9	278.2	320.3	366.5	416.1	471.4
52.5°	197.3	197.3	198.1	199.0	205.6	228.7	269.1	320.3	378.1	444.1	513.5
55°	193.2	194.0	194.8	194.0	199.0	218.8	259.2	315.4	383.0	466.4	558.9
57.5°	189.9	191.5	191.5	190.7	194.0	210.5	249.3	305.4	378.9	474.7	591.1
60°	184.9	184.9	184.9	182.4	184.1	199.0	234.4	289.8	365.7	467.2	596.0
62.5°	174.2	174.2	172.5	171.7	170.9	182.4	214.6	266.6	341.8	447.4	583.6
63°	171.7	170.9	170.9	168.4	168.4	179.1	210.5	263.3	335.2	442.5	578.7
65°	162.6	162.6	162.6	161.0	160.2	168.4	194.0	240.2	309.6	419.4	553.9
67.5°	152.7	153.5	151.9	151.1	150.2	155.2	175.0	211.3	269.9	370.7	507.7
70°	138.7	139.5	139.5	138.7	137.9	141.2	153.5	181.6	223.7	308.7	432.6
72.5°	126.3	128.0	128.0	129.6	129.6	132.1	137.0	151.1	179.1	241.1	340.1
75°	113.1	113.9	115.6	117.2	115.6	114.7	115.6	126.3	140.3	178.3	242.7
77.5°	101.5	104.0	104.0	103.2	100.7	99.1	99.1	104.0	115.6	135.4	173.4
80°	84.2	88.3	89.2	86.7	84.2	84.2	85.9	89.2	96.6	111.4	131.3
82.5°	67.7	71.8	72.6	73.5	72.6	75.1	75.1	75.9	80.1	91.6	107.3
85°	52.0	55.3	57.8	58.6	59.4	60.3	59.4	55.3	57.8	65.2	72.6
87.5°	23.1	23.9	22.3	23.1	22.3	23.1	23.9	19.8	19.0	25.6	26.4
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: P152945

CATALOG NUMBER: TLM-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	856.9	856.9	857.7	856.1	856.1	856.9	854.4
5°	843.7	847.0	847.0	847.0	845.3	847.0	847.8
7.5°	847.0	849.5	851.1	851.1	850.3	853.6	856.1
10°	851.1	855.2	856.9	856.9	856.9	861.0	866.8
12.5°	866.8	870.1	872.6	872.6	874.2	879.2	885.8
15°	895.7	899.8	899.8	899.0	903.9	909.7	917.2
17.5°	927.9	939.4	945.2	944.4	948.5	956.0	964.2
20°	958.4	990.6	1004.7	1014.6	1018.7	1028.6	1031.1
22.5°	984.0	1037.7	1076.5	1109.5	1125.2	1135.1	1146.7
25°	974.9	1047.6	1116.9	1184.6	1232.5	1281.2	1301.9
27.5°	937.8	1028.6	1119.4	1218.5	1305.2	1391.8	1454.6
30°	892.4	1001.4	1123.5	1263.9	1400.9	1533.8	1639.5
32.5°	840.4	975.8	1132.6	1306.0	1485.9	1660.1	1812.9
35°	775.2	927.1	1110.3	1310.1	1522.3	1733.6	1931.7
37.5°	692.6	861.0	1058.3	1280.4	1523.9	1765.8	2002.7
40°	610.1	777.6	992.3	1237.5	1502.5	1773.2	2047.3
42.5°	552.3	703.3	925.4	1183.0	1467.8	1761.7	2068.8
45°	512.7	649.7	866.0	1133.4	1430.6	1741.0	2072.1
47.5°	509.3	626.6	827.2	1097.1	1400.9	1722.9	2072.1
50°	537.4	639.0	814.0	1079.0	1388.5	1717.1	2073.7
52.5°	590.3	688.5	837.9	1093.0	1398.4	1724.5	2081.1
55°	653.8	763.6	902.3	1141.7	1440.5	1749.3	2097.7
57.5°	711.6	850.3	1012.1	1235.8	1517.3	1812.0	2143.9
60°	745.4	924.6	1128.5	1367.9	1648.6	1936.7	2236.3
62.5°	749.6	965.9	1231.7	1511.5	1807.9	2079.5	2384.1
63°	746.3	969.2	1244.9	1538.8	1841.7	2115.0	2435.3
65°	728.1	970.0	1282.0	1634.5	1959.0	2264.4	2578.1
67.5°	681.9	943.6	1295.2	1709.7	2106.7	2460.9	2844.8
70°	601.8	868.5	1256.4	1711.3	2163.7	2570.7	3013.2
72.5°	483.8	725.6	1088.9	1556.9	2013.5	2462.5	2969.4
75°	354.2	533.3	823.0	1206.1	1642.8	2049.8	2543.4
77.5°	235.3	345.1	554.8	859.4	1178.0	1475.2	1831.0
80°	161.8	213.8	324.4	516.8	720.7	865.2	1166.5
82.5°	118.9	141.2	180.0	264.2	346.7	426.8	609.2
85°	74.3	80.9	90.0	130.4	186.6	251.8	379.7
87.5°	19.8	20.6	19.0	25.6	40.5	38.8	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)