

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: P148965

Luminaire Tested: **TLM-F04-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148965
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-F04-LED-E1-RW
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

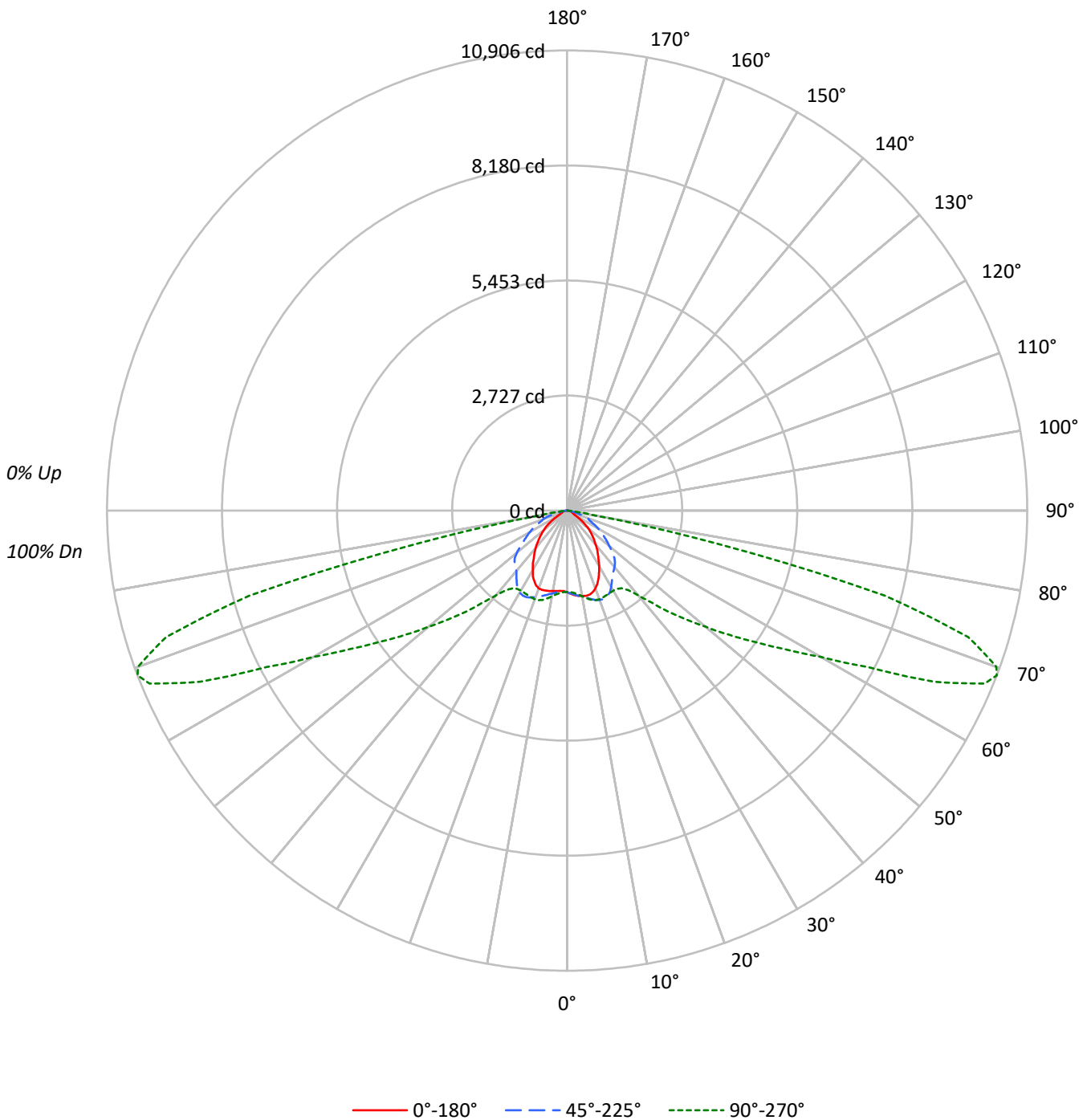
Lumens per Lamp: N/A
Luminaire Lumens: 10315.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.2
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



TEST NUMBER: P148965
CATALOG NUMBER: TLM-F04-LED-E1-RW

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°	31051	31051	31051
5°	32431	31614	30798
10°	33542	33650	31620
15°	34307	36413	32623
20°	33477	38219	33552
25°	31237	39159	32643
30°	28118	40654	30199
35°	24976	44059	27006
40°	22023	54825	24330
45°	19255	76826	21257
50°	16203	107097	18240
55°	11686	151993	14335
60°	6966	222562	8560
65°	6276	364656	6276
70°	6412	508548	6515
75°	6834	484004	7176
80°	6920	62320	7540
85°	4461	15631	6286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.8
10°-20°	598.1	5.8
20°-30°	969.0	9.4
30°-40°	1207.6	11.7
40°-50°	1509.0	14.6
50°-60°	1863.3	18.1
60°-70°	2315.2	22.4
70°-80°	1537.0	14.9
80°-90°	126.9	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°	1756.6	17.0
0°-40°	2964.2	28.7
0°-60°	6336.4	61.4
0°-90°	10315.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10315.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1933	1933	1933	1933	1933	
5°	2011	1999	1960	1930	1910	193
15°	2063	2168	2189	2081	1961	577
25°	1762	2244	2209	2265	1842	805
35°	1274	1876	2246	2087	1377	798
45°	848	1580	3381	1763	936	653
55°	417	1069	5426	1253	512	372
65°	165	620	9593	788	165	166
75°	110	244	7797	318	116	115
85°	24	46	85	60	34	31
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°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1976.9	1983.5	1976.9	1976.9	1971.4	1965.9	1962.5	1954.8	1950.4	1948.2	1948.2
5°	2011.0	2009.9	2011.0	2011.0	2005.5	1998.9	1994.5	1987.9	1981.3	1980.2	1979.1
7.5°	2036.3	2035.2	2038.5	2045.1	2041.8	2036.3	2036.3	2029.7	2025.3	2025.3	2023.1
10°	2056.1	2057.2	2063.8	2073.7	2075.9	2074.8	2082.5	2080.3	2078.1	2080.3	2078.1
12.5°	2069.3	2070.4	2079.2	2097.9	2110.0	2117.7	2137.6	2138.7	2139.8	2139.8	2139.8
15°	2062.7	2062.7	2080.3	2115.5	2145.3	2168.4	2193.7	2198.1	2193.7	2197.0	2194.8
17.5°	2024.2	2026.4	2055.0	2108.9	2169.5	2220.1	2247.6	2239.9	2232.2	2232.2	2228.9
20°	1958.1	1962.5	2001.1	2077.0	2172.8	2253.1	2296.1	2270.7	2249.8	2246.5	2243.2
22.5°	1876.7	1873.4	1919.6	2015.4	2147.5	2267.4	2325.8	2295.0	2257.5	2249.8	2244.3
25°	1762.2	1764.4	1812.9	1919.6	2083.6	2244.3	2334.6	2319.2	2275.1	2265.2	2253.1
27.5°	1636.7	1642.2	1694.0	1802.9	1984.6	2187.1	2324.7	2343.4	2309.3	2298.3	2287.3
30°	1515.7	1519.0	1577.3	1694.0	1862.4	2085.8	2298.3	2369.8	2352.2	2343.4	2333.5
32.5°	1386.9	1397.9	1448.5	1580.6	1765.5	1974.7	2257.5	2397.3	2403.9	2398.4	2392.9
35°	1273.5	1282.3	1339.6	1478.2	1672.0	1875.6	2208.0	2427.0	2472.2	2471.1	2470.0
37.5°	1171.1	1173.3	1233.9	1374.8	1579.5	1806.2	2156.3	2475.5	2555.8	2566.8	2580.0
40°	1050.1	1061.1	1123.8	1275.7	1488.1	1746.8	2112.2	2540.4	2672.5	2696.7	2715.4
42.5°	953.2	953.2	1009.3	1160.1	1380.3	1678.6	2096.8	2621.9	2811.2	2844.2	2877.2
45°	847.5	850.8	904.8	1042.4	1257.0	1579.5	2094.6	2712.1	2966.4	3013.7	3054.4
47.5°	747.4	749.6	806.8	940.0	1129.3	1443.0	2067.1	2812.3	3129.3	3197.5	3242.7
50°	648.3	645.0	700.0	835.4	1015.9	1302.1	1979.1	2942.2	3331.8	3400.1	3451.8
52.5°	526.1	534.9	594.4	723.2	904.8	1182.2	1799.6	3069.9	3541.0	3618.0	3688.4
55°	417.2	416.1	483.2	599.9	784.8	1068.8	1587.2	3160.1	3744.6	3833.7	3911.9
57.5°	299.4	302.7	359.9	475.5	660.4	967.5	1426.5	3144.7	3902.0	4007.6	4106.7
60°	216.8	223.4	266.4	351.1	527.2	850.8	1314.2	2966.4	4009.8	4154.0	4274.0
62.5°	182.7	188.2	225.6	271.9	407.3	728.7	1205.3	2680.2	4149.6	4340.1	4514.0
65°	165.1	169.5	206.9	233.3	312.6	619.7	1137.0	2477.7	4333.5	4622.9	4860.7
67.5°	148.6	155.2	188.2	208.0	265.3	553.7	1117.2	2446.9	4368.7	4751.7	5089.6
69°	140.9	147.5	177.2	194.8	249.9	532.7	1079.8	2335.7	4138.6	4550.3	4928.9
70°	136.5	142.0	168.4	187.1	245.5	512.9	1027.0	2172.8	3894.3	4309.2	4716.5
72.5°	125.5	128.8	150.8	169.5	225.6	394.1	778.2	1569.6	2906.9	3317.5	3717.1
75°	110.1	113.4	133.2	151.9	175.0	244.4	472.2	931.2	1784.2	2060.5	2461.2
77.5°	94.7	98.0	114.5	143.1	138.7	159.6	288.4	557.0	935.6	1073.2	1329.6
80°	74.8	79.3	95.8	137.6	115.6	126.6	211.3	411.7	569.1	626.3	693.4
82.5°	52.8	55.0	72.6	110.1	87.0	95.8	158.5	342.3	456.8	498.6	518.4
85°	24.2	25.3	42.9	64.9	51.7	46.2	84.8	219.0	302.7	314.8	332.4
87.5°	0.0	0.0	4.4	4.4	8.8	5.5	9.9	27.5	46.2	46.2	56.1
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1949.3	1948.2	1949.3	1949.3	1950.4	1946.0	1944.9	1943.8	1942.7	1943.8	1941.6
5°	1979.1	1978.0	1978.0	1979.1	1978.0	1974.7	1973.6	1973.6	1970.3	1969.2	1969.2
7.5°	2024.2	2022.0	2018.7	2020.9	2022.0	2020.9	2022.0	2018.7	2018.7	2015.4	2016.5
10°	2080.3	2078.1	2077.0	2079.2	2080.3	2079.2	2080.3	2075.9	2074.8	2073.7	2071.5
12.5°	2142.0	2137.6	2140.9	2140.9	2142.0	2146.4	2140.9	2143.1	2138.7	2138.7	2137.6
15°	2195.9	2194.8	2197.0	2197.0	2195.9	2199.2	2198.1	2199.2	2193.7	2191.5	2197.0
17.5°	2230.0	2226.7	2227.8	2226.7	2226.7	2226.7	2228.9	2228.9	2225.6	2224.5	2226.7
20°	2238.8	2233.3	2232.2	2231.1	2228.9	2228.9	2230.0	2227.8	2225.6	2223.4	2225.6
22.5°	2236.6	2230.0	2223.4	2220.1	2216.8	2212.4	2211.3	2209.1	2205.8	2205.8	2206.9
25°	2244.3	2232.2	2222.3	2215.7	2206.9	2201.4	2197.0	2191.5	2186.0	2182.7	2183.8
27.5°	2270.7	2257.5	2244.3	2231.1	2217.9	2206.9	2198.1	2188.2	2179.4	2172.8	2169.5
30°	2320.3	2302.7	2287.3	2271.8	2255.3	2239.9	2225.6	2210.2	2193.7	2183.8	2175.0
32.5°	2377.5	2365.4	2355.5	2337.9	2320.3	2301.6	2284.0	2270.7	2246.5	2227.8	2212.4
35°	2464.5	2460.1	2454.6	2441.4	2421.5	2411.6	2397.3	2376.4	2347.8	2331.3	2308.2
37.5°	2584.4	2585.5	2581.1	2575.6	2577.8	2559.1	2550.3	2548.1	2519.5	2508.5	2474.4
40°	2731.9	2748.4	2762.8	2762.8	2773.8	2774.9	2772.7	2791.4	2770.5	2774.9	2738.5
42.5°	2895.9	2935.6	2957.6	2974.1	3010.4	3026.9	3054.4	3095.2	3097.4	3118.3	3120.5
45°	3089.7	3133.7	3175.5	3218.4	3266.9	3324.1	3381.4	3423.2	3489.2	3503.5	3550.9
47.5°	3291.1	3354.9	3403.4	3458.4	3541.0	3614.7	3699.5	3785.3	3861.3	3915.2	3946.0
50°	3513.4	3578.4	3648.8	3710.5	3798.5	3902.0	4019.8	4137.5	4235.5	4331.3	4408.3
52.5°	3760.0	3831.5	3897.6	3977.9	4067.1	4190.4	4319.1	4480.9	4611.9	4742.9	4837.6
55°	3996.6	4077.0	4137.5	4239.9	4332.4	4458.9	4618.5	4810.1	4991.7	5150.2	5279.0
57.5°	4202.5	4281.7	4366.5	4454.5	4566.8	4693.4	4889.3	5107.2	5314.2	5522.2	5712.6
60°	4395.1	4501.9	4594.3	4711.0	4823.3	4969.7	5203.0	5472.7	5755.6	6014.2	6204.6
62.5°	4685.7	4822.2	4931.1	5075.3	5231.6	5404.4	5662.0	5959.2	6327.9	6661.4	6957.5
65°	5091.8	5301.0	5477.1	5654.3	5844.7	6082.5	6360.9	6738.5	7145.7	7638.9	8029.6
67.5°	5381.3	5643.3	5871.1	6093.5	6312.5	6575.6	6920.1	7362.6	7889.8	8408.2	8904.7
69°	5264.6	5542.0	5795.2	6016.4	6247.6	6510.6	6846.4	7331.8	7868.9	8439.1	8931.1
70°	5019.2	5318.6	5589.4	5800.7	6037.3	6298.2	6669.1	7132.5	7680.7	8270.7	8752.8
72.5°	4036.3	4352.2	4619.6	4854.1	5101.7	5407.7	5737.9	6182.6	6790.2	7368.1	7797.4
75°	2780.4	3075.4	3378.0	3553.1	3837.0	4055.0	4368.7	4824.4	5331.8	5756.7	6154.0
77.5°	1572.9	1731.4	1960.3	2031.9	2235.5	2380.8	2547.0	2827.7	3091.9	3338.4	3410.0
80°	715.5	668.1	691.2	656.0	694.5	670.3	642.8	658.2	654.9	704.4	658.2
82.5°	515.1	444.7	369.8	319.2	280.7	237.8	202.5	181.6	179.4	188.2	184.9
85°	329.1	300.5	235.5	189.3	145.3	112.3	93.6	84.8	84.8	90.3	89.2
87.5°	57.2	49.5	30.8	26.4	23.1	15.4	9.9	9.9	8.8	11.0	14.3
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°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1941.6	1940.5	1938.3	1937.2	1937.2	1935.0	1933.9	1936.1	1937.2	1938.3	1935.0
5°	1969.2	1965.9	1964.7	1965.9	1960.3	1961.4	1960.3	1961.4	1961.4	1961.4	1959.2
7.5°	2013.2	2009.9	2012.1	2009.9	2006.6	2005.5	2005.5	2002.2	1997.8	1996.7	1997.8
10°	2073.7	2069.3	2070.4	2071.5	2068.2	2066.0	2062.7	2058.3	2058.3	2057.2	2055.0
12.5°	2138.7	2136.5	2136.5	2137.6	2136.5	2132.1	2127.7	2125.5	2124.4	2124.4	2124.4
15°	2194.8	2193.7	2194.8	2193.7	2193.7	2191.5	2189.3	2186.0	2184.9	2186.0	2187.1
17.5°	2226.7	2223.4	2226.7	2227.8	2226.7	2226.7	2226.7	2224.5	2223.4	2223.4	2224.5
20°	2228.9	2226.7	2228.9	2232.2	2232.2	2233.3	2235.5	2236.6	2235.5	2237.7	2238.8
22.5°	2206.9	2206.9	2210.2	2213.5	2219.0	2221.2	2225.6	2227.8	2230.0	2233.3	2235.5
25°	2184.9	2183.8	2187.1	2193.7	2198.1	2203.6	2209.1	2213.5	2217.9	2222.3	2226.7
27.5°	2169.5	2168.4	2170.6	2176.1	2181.6	2188.2	2197.0	2203.6	2209.1	2214.6	2217.9
30°	2170.6	2166.2	2165.1	2169.5	2175.0	2182.7	2191.5	2199.2	2206.9	2211.3	2214.6
32.5°	2202.5	2191.5	2187.1	2186.0	2188.2	2193.7	2200.3	2208.0	2213.5	2217.9	2219.0
35°	2285.1	2264.1	2259.7	2245.4	2247.6	2246.5	2246.5	2250.9	2255.3	2255.3	2247.6
37.5°	2452.4	2422.6	2401.7	2387.4	2373.1	2372.0	2369.8	2367.6	2356.6	2350.0	2348.9
40°	2713.2	2701.1	2661.5	2650.5	2626.3	2609.8	2614.2	2605.4	2578.9	2569.0	2564.6
42.5°	3094.1	3100.7	3078.7	3026.9	3006.0	2974.1	2947.7	2943.3	2919.1	2899.2	2883.8
45°	3541.0	3553.1	3536.5	3499.1	3461.7	3413.3	3381.4	3319.7	3295.5	3264.7	3243.8
47.5°	3999.9	4033.0	4006.5	3973.5	3952.6	3876.7	3810.6	3739.1	3702.8	3658.7	3638.9
50°	4455.6	4514.0	4498.6	4467.7	4444.6	4348.9	4285.0	4186.0	4165.0	4121.0	4096.8
52.5°	4911.3	4968.6	5002.7	4974.1	4957.6	4880.5	4836.5	4757.2	4697.8	4670.3	4669.2
55°	5371.4	5463.9	5517.8	5507.9	5480.4	5470.5	5426.5	5418.7	5372.5	5342.8	5303.2
57.5°	5821.6	5919.6	6013.1	6068.2	6091.3	6083.6	6104.5	6102.3	6108.9	6105.6	6040.6
60°	6394.0	6549.2	6685.7	6772.6	6855.2	6912.4	6926.7	7011.5	6987.2	7040.1	6938.8
62.5°	7201.9	7403.3	7610.2	7701.6	7802.9	7988.9	8032.9	8133.1	8148.5	8161.7	8107.8
65°	8327.9	8592.1	8904.7	9044.5	9203.0	9441.8	9592.6	9699.4	9696.1	9623.4	9554.1
67.5°	9288.8	9601.4	9888.7	10131.9	10368.6	10554.6	10713.1	10857.3	10865.0	10819.9	10701.0
69°	9371.4	9698.3	10010.9	10303.7	10538.1	10745.0	10905.7	11018.0	11042.2	11002.6	10892.5
70°	9218.4	9548.6	9888.7	10169.4	10434.6	10653.7	10826.5	10934.4	10967.4	10926.6	10823.2
72.5°	8277.3	8597.6	8851.8	9182.0	9559.6	9697.2	9963.5	10051.6	10133.0	10079.1	10017.5
75°	6484.2	6785.8	7048.9	7220.6	7393.4	7733.5	7797.4	7962.5	8018.6	7965.8	8034.0
77.5°	3378.0	3581.7	3669.7	3532.1	3553.1	3821.6	3669.7	3848.0	3950.4	3980.1	4023.1
80°	646.1	679.1	704.4	695.6	704.4	724.3	673.6	646.1	682.4	674.7	674.7
82.5°	190.4	187.1	187.1	197.0	195.9	200.3	200.3	192.6	198.1	198.1	199.2
85°	87.0	82.6	81.5	82.6	81.5	81.5	84.8	84.8	91.4	85.9	87.0
87.5°	11.0	9.9	11.0	11.0	8.8	8.8	9.9	11.0	11.0	9.9	9.9
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: P148965

CATALOG NUMBER: TLM-F04-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1933.9	1932.8	1932.8	1932.8	1931.7	1930.6	1929.5	1926.2	1922.9	1921.8	1916.3
5°	1954.8	1955.9	1953.7	1951.5	1951.5	1951.5	1948.2	1939.4	1932.8	1929.5	1921.8
7.5°	1998.9	1996.7	1993.4	1992.3	1990.1	1991.2	1984.6	1973.6	1961.4	1953.7	1941.6
10°	2057.2	2055.0	2052.8	2050.6	2047.3	2047.3	2039.6	2023.1	2004.4	1991.2	1969.2
12.5°	2125.5	2123.3	2121.0	2119.9	2114.4	2113.3	2102.3	2082.5	2058.3	2033.0	2001.1
15°	2188.2	2184.9	2183.8	2180.5	2177.2	2176.1	2166.2	2139.8	2110.0	2081.4	2039.6
17.5°	2227.8	2225.6	2222.3	2220.1	2219.0	2217.9	2203.6	2181.6	2158.5	2129.9	2079.2
20°	2241.0	2242.1	2239.9	2237.7	2234.4	2232.2	2219.0	2198.1	2193.7	2178.3	2126.6
22.5°	2238.8	2238.8	2237.7	2233.3	2231.1	2225.6	2206.9	2197.0	2221.2	2227.8	2161.8
25°	2230.0	2228.9	2225.6	2222.3	2215.7	2208.0	2179.4	2184.9	2253.1	2265.2	2169.5
27.5°	2220.1	2219.0	2213.5	2205.8	2195.9	2184.9	2148.6	2184.9	2282.9	2272.9	2137.6
30°	2214.6	2210.2	2202.5	2191.5	2178.3	2166.2	2126.6	2213.5	2303.8	2246.5	2049.5
32.5°	2215.7	2208.0	2197.0	2182.7	2167.3	2153.0	2125.5	2264.1	2311.5	2182.7	1925.1
35°	2242.1	2230.0	2215.7	2201.4	2186.0	2172.8	2175.0	2334.6	2310.4	2086.9	1805.1
37.5°	2337.9	2317.0	2307.1	2291.7	2269.6	2258.6	2302.7	2412.7	2295.0	1970.3	1699.5
40°	2549.2	2531.6	2517.3	2477.7	2485.4	2476.6	2518.4	2519.5	2275.1	1872.3	1611.4
42.5°	2857.4	2857.4	2826.6	2821.1	2800.2	2810.1	2828.8	2645.0	2255.3	1814.0	1524.5
45°	3220.6	3248.2	3236.1	3232.8	3249.3	3269.1	3183.2	2793.6	2256.4	1763.3	1423.2
47.5°	3652.1	3675.2	3687.3	3707.2	3728.1	3716.0	3538.8	2949.9	2276.2	1690.7	1293.3
50°	4111.1	4167.2	4184.9	4210.2	4228.9	4232.2	3875.6	3110.6	2297.2	1557.5	1152.4
52.5°	4680.2	4733.0	4751.7	4769.3	4755.0	4742.9	4205.8	3301.0	2280.7	1399.0	1032.5
55°	5349.4	5359.3	5356.0	5334.0	5321.9	5255.8	4511.8	3503.5	2151.9	1252.6	918.0
57.5°	6046.1	6050.5	6010.9	5933.9	5844.7	5782.0	4805.7	3670.8	1878.9	1134.8	804.6
60°	6943.2	6853.0	6785.8	6668.0	6522.7	6388.5	5120.5	3764.4	1618.0	1021.4	676.9
62.5°	8026.3	7845.8	7700.5	7581.6	7367.0	7130.3	5522.2	3776.5	1459.5	913.6	531.6
65°	9428.6	9238.2	8990.5	8786.9	8554.6	8235.4	6170.5	3689.5	1381.4	788.1	388.5
67.5°	10532.6	10340.0	10062.6	9834.8	9535.4	9163.3	6707.7	3537.6	1362.7	674.7	306.0
69°	10725.2	10515.0	10265.1	9980.0	9661.9	9264.6	6728.6	3361.5	1334.0	631.8	280.7
70°	10654.8	10435.7	10194.7	9892.0	9535.4	9127.0	6570.1	3165.6	1276.8	607.6	271.9
72.5°	9864.5	9531.0	9288.8	9030.1	8596.5	8182.6	5656.5	2395.1	993.9	511.8	254.3
75°	7897.5	7612.4	7339.5	7210.7	6850.8	6499.6	4246.5	1521.2	649.4	318.1	199.2
77.5°	4026.4	3974.6	4052.8	3994.4	3734.7	3734.7	2620.8	807.9	381.9	191.5	151.9
80°	723.2	754.0	739.7	770.5	716.6	795.8	921.3	542.6	270.8	146.4	124.4
82.5°	202.5	204.7	202.5	203.6	210.2	221.2	478.8	466.7	209.1	110.1	96.9
85°	94.7	95.8	98.0	98.0	106.8	109.0	321.4	334.6	122.2	60.5	64.9
87.5°	11.0	14.3	14.3	13.2	15.4	15.4	59.4	67.1	16.5	12.1	19.8
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: P148965

CATALOG NUMBER: TLM-F04-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	1932.8	1932.8	1932.8	1932.8
2.5°	1911.9	1907.5	1903.1	1906.4
5°	1918.5	1911.9	1906.4	1909.7
7.5°	1936.1	1925.1	1924.0	1924.0
10°	1958.1	1942.7	1938.3	1938.3
12.5°	1981.3	1960.3	1952.6	1952.6
15°	2005.5	1975.8	1964.7	1961.4
17.5°	2033.0	1991.2	1971.4	1971.4
20°	2059.4	1993.4	1963.6	1962.5
22.5°	2063.8	1968.1	1925.1	1922.9
25°	2030.8	1908.6	1852.5	1841.5
27.5°	1952.6	1816.2	1756.7	1754.5
30°	1834.9	1695.1	1634.5	1627.9
32.5°	1719.3	1570.7	1514.6	1514.6
35°	1602.6	1457.3	1384.7	1377.0
37.5°	1494.8	1337.4	1272.4	1271.3
40°	1395.7	1232.8	1170.0	1160.1
42.5°	1296.6	1122.7	1051.2	1049.0
45°	1178.8	1002.7	941.1	935.6
47.5°	1053.4	894.9	829.9	828.8
50°	940.0	794.7	729.8	729.8
52.5°	836.5	696.7	631.8	625.2
55°	719.9	585.6	519.5	511.8
57.5°	593.3	461.2	401.8	385.2
60°	459.0	335.7	275.2	266.4
62.5°	334.6	245.5	200.3	193.7
65°	252.1	209.1	171.7	165.1
67.5°	216.8	188.2	156.3	149.7
69°	201.4	178.3	149.7	143.1
70°	194.8	171.7	144.2	138.7
72.5°	179.4	157.4	132.1	129.9
75°	164.0	143.1	118.9	115.6
77.5°	158.5	124.4	102.4	100.2
80°	161.8	101.3	83.7	81.5
82.5°	132.1	81.5	64.9	61.6
85°	82.6	55.0	34.1	34.1
87.5°	20.9	17.6	9.9	9.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)