

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: P156650

Luminaire Tested: **TLM-E05-LED-E1-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156650
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E05-LED-E1-T4
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

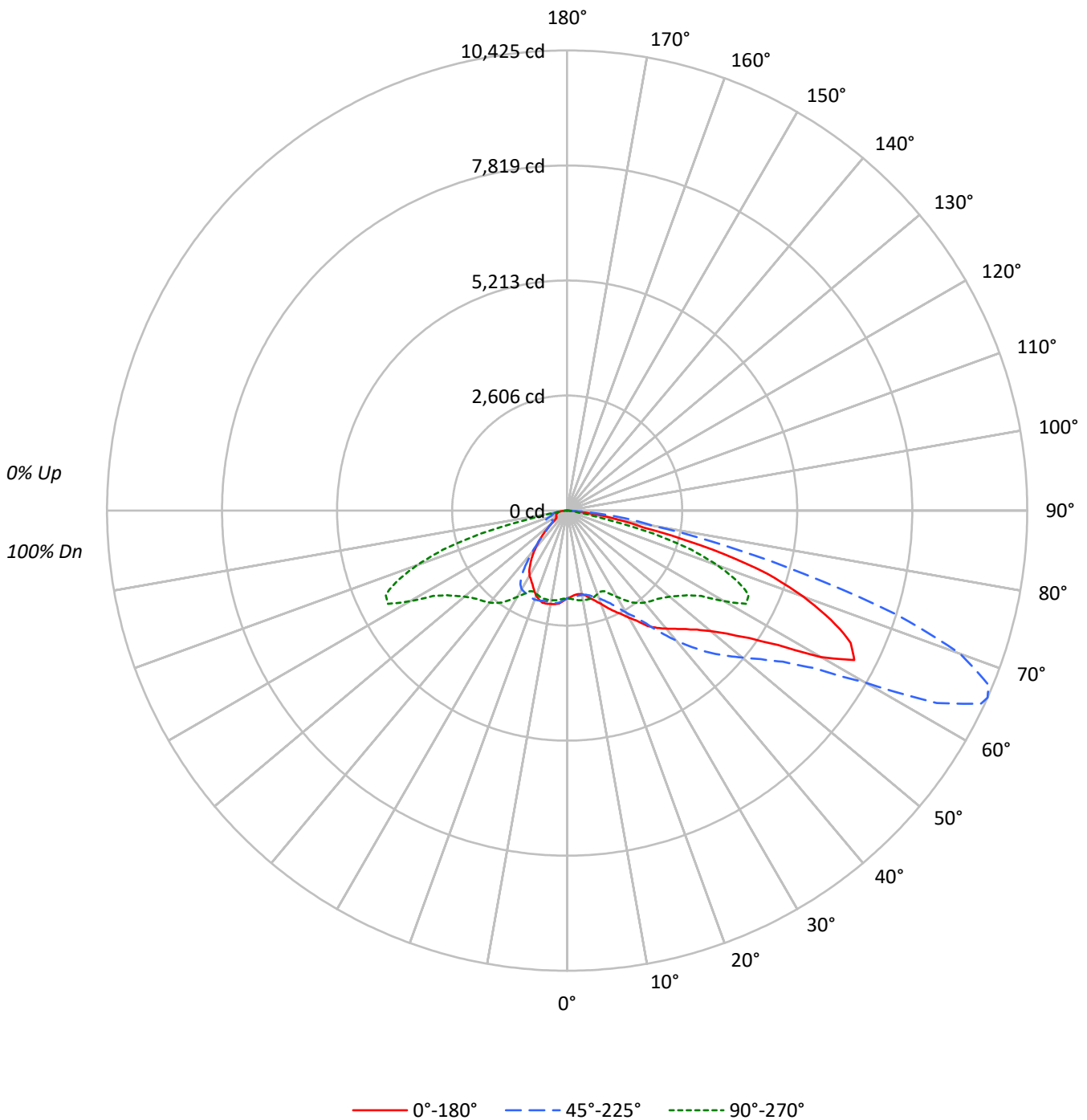
Lumens per Lamp: N/A
Luminaire Lumens: 15110.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 2.02 / 2.64
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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	105	99	93	88	102	96	91	87	92	88	84	88	84	81	84	81	79	76					76			
2	92	81	72	65	89	79	71	64	76	69	62	72	66	61	69	64	59	57					57			
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43					43			
4	73	58	47	39	70	57	46	38	54	45	38	51	43	37	49	42	36	34					34			
5	66	50	39	31	64	49	39	31	47	38	31	45	36	30	42	35	30	27					27			
6	60	44	34	26	58	43	33	26	41	32	25	39	31	25	38	30	25	22					22			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	26	19	49	35	25	19	33	25	19	32	24	18	31	23	18	16					16			
9	47	32	23	16	46	31	23	16	30	22	16	29	22	16	28	21	16	14					14			
10	44	29	21	15	43	29	20	15	28	20	14	27	19	14	26	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25830	25830	25830
5°	24995	26384	27511
10°	25284	27171	28290
15°	27702	27725	29023
20°	31052	27785	28292
25°	35941	28880	26496
30°	41929	33818	25483
35°	50582	40160	22929
40°	59112	46103	18932
45°	69662	52178	14397
50°	85645	61198	9214
55°	113916	75517	6896
60°	172007	106428	7262
65°	217513	139110	8387
70°	215751	137451	9984
75°	171114	101802	12276
80°	86759	21412	15310
85°	12648	17603	19597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.3
10°-20°	587.2	3.9
20°-30°	1011.4	6.7
30°-40°	1530.2	10.1
40°-50°	1983.4	13.1
50°-60°	2734.4	18.1
60°-70°	4248.4	28.1
70°-80°	2470.5	16.3
80°-90°	351.3	2.3
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°	1792.0	11.9
0°-40°	3322.2	22.0
0°-60°	8040.0	53.2
0°-90°	15110.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15110.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1992	1992	1992	1992	1992	
5°	1920	1948	2027	2093	2113	183
15°	2063	1992	2065	2118	2162	591
25°	2512	2322	2018	2110	1852	1171
35°	3195	3122	2537	1790	1448	1997
45°	3798	4547	2845	750	785	2969
55°	5038	5968	3340	387	305	4667
65°	7088	10348	4533	547	273	6708
75°	3415	5563	2032	343	245	3517
85°	85	580	118	140	132	368
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7
2.5°	1955.0	1961.7	1956.7	1958.3	1958.3	1960.0	1960.0	1961.7	1960.0	1965.0	1968.3	1968.3
5°	1920.0	1923.3	1921.7	1925.0	1928.3	1935.0	1933.3	1941.7	1943.3	1948.3	1956.7	1956.7
7.5°	1906.7	1903.3	1905.0	1910.0	1913.3	1916.7	1920.0	1926.7	1931.7	1943.3	1950.0	1950.0
10°	1920.0	1918.3	1920.0	1923.3	1923.3	1925.0	1921.7	1928.3	1931.7	1941.7	1948.3	1948.3
12.5°	1975.0	1975.0	1971.7	1971.7	1968.3	1965.0	1956.7	1951.7	1950.0	1951.7	1955.0	1955.0
15°	2063.3	2060.0	2053.3	2048.3	2041.7	2030.0	2018.3	2008.3	2001.7	1991.7	1988.3	1988.3
17.5°	2150.0	2145.0	2138.3	2131.7	2123.3	2111.7	2093.3	2081.7	2063.3	2051.7	2045.0	2045.0
20°	2250.0	2240.0	2231.7	2223.3	2206.7	2203.3	2185.0	2165.0	2143.3	2116.7	2113.3	2113.3
22.5°	2380.0	2363.3	2353.3	2348.3	2331.7	2326.7	2296.7	2268.3	2241.7	2206.7	2198.3	2198.3
25°	2511.7	2495.0	2490.0	2483.3	2471.7	2465.0	2436.7	2405.0	2370.0	2321.7	2311.7	2311.7
27.5°	2640.0	2641.7	2628.3	2633.3	2630.0	2618.3	2590.0	2558.3	2531.7	2475.0	2463.3	2463.3
30°	2800.0	2790.0	2783.3	2793.3	2781.7	2783.3	2758.3	2741.7	2698.3	2665.0	2641.7	2641.7
32.5°	2966.7	2965.0	2975.0	2981.7	2980.0	2976.7	2956.7	2940.0	2901.7	2853.3	2843.3	2843.3
35°	3195.0	3205.0	3213.3	3243.3	3243.3	3265.0	3245.0	3225.0	3180.0	3121.7	3101.7	3101.7
37.5°	3350.0	3353.3	3386.7	3426.7	3476.7	3523.3	3536.7	3541.7	3523.3	3480.0	3450.0	3450.0
40°	3491.7	3498.3	3551.7	3613.3	3686.7	3778.3	3833.3	3858.3	3863.3	3843.3	3778.3	3778.3
42.5°	3633.3	3643.3	3698.3	3788.3	3890.0	4006.7	4103.3	4165.0	4200.0	4200.0	4161.7	4161.7
45°	3798.3	3811.7	3871.7	3970.0	4088.3	4235.0	4368.3	4486.7	4543.3	4546.7	4510.0	4510.0
47.5°	3993.3	4005.0	4075.0	4175.0	4296.7	4445.0	4613.3	4748.3	4853.3	4860.0	4830.0	4830.0
50°	4245.0	4261.7	4320.0	4410.0	4535.0	4685.0	4853.3	5041.7	5151.7	5178.3	5146.7	5146.7
52.5°	4578.3	4581.7	4630.0	4713.3	4835.0	4978.3	5156.7	5361.7	5506.7	5528.3	5476.7	5476.7
55°	5038.3	5033.3	5065.0	5155.0	5246.7	5358.3	5543.3	5773.3	5935.0	5968.3	5915.0	5915.0
57.5°	5663.3	5658.3	5685.0	5706.7	5878.3	5986.7	6168.3	6388.3	6545.0	6641.7	6550.0	6550.0
60°	6631.7	6626.7	6670.0	6796.7	6925.0	7083.3	7260.0	7523.3	7743.3	7771.7	7681.7	7681.7
62.5°	7333.3	7358.3	7453.3	7601.7	7861.7	8171.7	8495.0	8841.7	9293.3	9436.7	9393.3	9393.3
65°	7088.3	7138.3	7270.0	7495.0	7841.7	8270.0	8776.7	9405.0	10010.0	10348.3	10338.3	10338.3
66°	6868.3	6923.3	7085.0	7301.7	7668.3	8136.7	8690.0	9375.0	10051.7	10425.0	10448.3	10448.3
67.5°	6468.3	6530.0	6688.3	6945.0	7301.7	7800.0	8395.0	9140.0	9905.0	10340.0	10401.7	10401.7
70°	5690.0	5760.0	5875.0	6086.7	6438.3	6883.3	7510.0	8176.7	8978.3	9476.7	9551.7	9551.7
72.5°	4756.7	4818.3	4946.7	5120.0	5408.3	5688.3	6180.0	6671.7	7245.0	7813.3	7758.3	7758.3
75°	3415.0	3441.7	3518.3	3706.7	3861.7	4113.3	4508.3	4911.7	5303.3	5563.3	5600.0	5600.0
77.5°	1775.0	1845.0	1953.3	2161.7	2330.0	2556.7	2813.3	3116.7	3403.3	3641.7	3576.7	3576.7
80°	1161.7	1191.7	1288.3	1395.0	1518.3	1663.3	1835.0	1948.3	1985.0	1970.0	1985.0	1985.0
82.5°	670.0	725.0	853.3	935.0	1026.7	1076.7	1213.3	1343.3	1416.7	1325.0	1291.7	1291.7
85°	85.0	110.0	346.7	436.7	500.0	575.0	616.7	695.0	648.3	580.0	706.7	706.7
87.5°	18.3	16.7	23.3	50.0	51.7	43.3	81.7	86.7	53.3	26.7	33.3	33.3
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7
2.5°	1971.7	1973.3	1976.7	1981.7	1985.0	1988.3	1991.7	1996.7	2000.0	2003.3	2010.0
5°	1963.3	1970.0	1976.7	1983.3	1991.7	2005.0	2013.3	2020.0	2026.7	2040.0	2045.0
7.5°	1958.3	1970.0	1980.0	1991.7	2005.0	2016.7	2031.7	2040.0	2050.0	2058.3	2068.3
10°	1955.0	1971.7	1981.7	1998.3	2013.3	2025.0	2041.7	2051.7	2063.3	2073.3	2078.3
12.5°	1961.7	1970.0	1980.0	1996.7	2015.0	2031.7	2050.0	2058.3	2068.3	2076.7	2078.3
15°	1990.0	1990.0	1991.7	2005.0	2023.3	2036.7	2051.7	2060.0	2065.0	2070.0	2070.0
17.5°	2041.7	2030.0	2021.7	2023.3	2035.0	2043.3	2051.7	2051.7	2048.3	2046.7	2043.3
20°	2101.7	2086.7	2070.0	2058.3	2055.0	2048.3	2043.3	2026.7	2013.3	2001.7	1993.3
22.5°	2188.3	2165.0	2141.7	2120.0	2100.0	2075.0	2046.7	2013.3	1981.7	1960.0	1946.7
25°	2295.0	2276.7	2248.3	2215.0	2190.0	2143.3	2106.7	2058.3	2018.3	1990.0	1966.7
27.5°	2446.7	2425.0	2398.3	2368.3	2331.7	2280.0	2235.0	2178.3	2130.0	2088.3	2058.3
30°	2635.0	2606.7	2586.7	2550.0	2525.0	2466.7	2421.7	2351.7	2258.3	2191.7	2150.0
32.5°	2828.3	2796.7	2780.0	2751.7	2723.3	2688.3	2620.0	2511.7	2391.7	2283.3	2211.7
35°	3086.7	3053.3	3023.3	2998.3	2956.7	2891.7	2831.7	2701.7	2536.7	2385.0	2265.0
37.5°	3411.7	3356.7	3281.7	3218.3	3145.0	3051.7	2960.0	2826.7	2638.3	2441.7	2281.7
40°	3758.3	3661.7	3555.0	3436.7	3310.0	3175.0	3070.0	2935.0	2723.3	2490.0	2270.0
42.5°	4120.0	3966.7	3818.3	3651.7	3475.0	3315.0	3178.3	3030.0	2786.7	2503.3	2223.3
45°	4478.3	4306.7	4081.7	3863.3	3640.0	3441.7	3288.3	3121.7	2845.0	2508.3	2161.7
47.5°	4775.0	4598.3	4341.7	4068.3	3803.3	3578.3	3398.3	3218.3	2923.3	2543.3	2146.7
50°	5088.3	4873.3	4588.3	4265.0	3965.0	3713.3	3521.7	3335.0	3033.3	2633.3	2195.0
52.5°	5430.0	5183.3	4850.0	4488.3	4160.0	3878.3	3670.0	3478.3	3173.3	2760.0	2286.7
55°	5846.7	5545.0	5183.3	4775.0	4423.3	4111.7	3881.7	3655.0	3340.0	2910.0	2401.7
57.5°	6483.3	6113.3	5706.7	5241.7	4851.7	4483.3	4208.3	3946.7	3598.3	3133.3	2558.3
60°	7635.0	7240.0	6711.7	6148.3	5690.0	5260.0	4856.7	4531.7	4103.3	3573.3	2905.0
62.5°	9285.0	8760.0	8055.0	7266.7	6666.7	6046.7	5591.7	5108.3	4576.7	4005.0	3313.3
65°	10201.7	9565.0	8621.7	7706.7	6935.0	6261.7	5683.3	5123.3	4533.3	3986.7	3408.3
66°	10315.0	9651.7	8671.7	7708.3	6898.3	6206.7	5598.3	5018.3	4415.0	3893.3	3368.3
67.5°	10268.3	9590.0	8580.0	7563.3	6740.0	5996.7	5368.3	4766.7	4165.0	3678.3	3235.0
70°	9503.3	8860.0	7868.3	6883.3	6101.7	5368.3	4768.3	4176.7	3625.0	3208.3	2881.7
72.5°	7891.7	7341.7	6480.0	5706.7	5093.3	4488.3	3980.0	3415.0	2948.3	2640.0	2446.7
75°	5696.7	5363.3	4578.3	4135.0	3596.7	3195.0	2701.7	2366.7	2031.7	1881.7	1848.3
77.5°	3598.3	3150.0	2651.7	2183.3	1795.0	1488.3	1158.3	983.3	820.0	803.3	970.0
80°	1821.7	1640.0	1263.3	1006.7	846.7	685.0	541.7	410.0	286.7	345.0	413.3
82.5°	1193.3	995.0	780.0	641.7	558.3	463.3	360.0	250.0	183.3	206.7	283.3
85°	645.0	550.0	443.3	350.0	283.3	253.3	170.0	120.0	118.3	126.7	161.7
87.5°	46.7	46.7	36.7	33.3	40.0	33.3	30.0	30.0	28.3	30.0	40.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7	1991.7
2.5°	2013.3	2018.3	2020.0	2028.3	2033.3	2036.7	2040.0	2040.0	2041.7	2046.7	2048.3
5°	2051.7	2060.0	2070.0	2076.7	2080.0	2090.0	2093.3	2093.3	2096.7	2103.3	2108.3
7.5°	2075.0	2086.7	2096.7	2100.0	2106.7	2110.0	2115.0	2118.3	2118.3	2125.0	2128.3
10°	2083.3	2090.0	2100.0	2100.0	2106.7	2106.7	2111.7	2113.3	2113.3	2120.0	2125.0
12.5°	2083.3	2086.7	2095.0	2095.0	2100.0	2101.7	2108.3	2113.3	2115.0	2123.3	2130.0
15°	2073.3	2076.7	2083.3	2085.0	2096.7	2103.3	2118.3	2128.3	2128.3	2136.7	2140.0
17.5°	2045.0	2053.3	2066.7	2080.0	2101.7	2116.7	2135.0	2143.3	2136.7	2131.7	2126.7
20°	1998.3	2013.3	2045.0	2078.3	2116.7	2136.7	2146.7	2138.3	2115.0	2091.7	2076.7
22.5°	1951.7	1981.7	2035.0	2085.0	2128.3	2141.7	2136.7	2106.7	2068.3	2040.0	2020.0
25°	1973.3	2008.3	2060.0	2105.0	2133.3	2130.0	2110.0	2068.3	2026.7	1990.0	1956.7
27.5°	2063.3	2101.7	2130.0	2145.0	2141.7	2118.3	2086.7	2040.0	1990.0	1941.7	1895.0
30°	2148.3	2168.3	2175.0	2163.3	2136.7	2098.3	2058.3	2005.0	1938.3	1878.3	1825.0
32.5°	2186.7	2166.7	2135.0	2103.3	2060.0	2026.7	1971.7	1913.3	1830.0	1758.3	1705.0
35°	2186.7	2106.7	2026.7	1960.0	1895.0	1853.3	1790.0	1711.7	1635.0	1575.0	1533.3
37.5°	2138.3	1985.0	1853.3	1745.0	1663.3	1618.3	1523.3	1453.3	1388.3	1368.3	1341.7
40°	2050.0	1823.3	1633.3	1491.7	1388.3	1321.7	1226.7	1178.3	1153.3	1143.3	1138.3
42.5°	1931.7	1643.3	1390.0	1215.0	1103.3	1028.3	965.0	935.0	933.3	931.7	931.7
45°	1805.0	1450.0	1153.3	945.0	846.7	780.0	750.0	738.3	748.3	746.7	748.3
47.5°	1726.7	1303.3	936.7	715.0	640.0	596.7	581.7	586.7	595.0	591.7	591.7
50°	1716.7	1228.3	791.7	556.7	500.0	478.3	475.0	475.0	480.0	476.7	475.0
52.5°	1753.3	1216.7	716.7	478.3	433.3	415.0	411.7	410.0	408.3	398.3	390.0
55°	1816.7	1243.3	695.0	458.3	411.7	391.7	386.7	383.3	376.7	363.3	348.3
57.5°	1943.3	1326.7	715.0	468.3	418.3	401.7	396.7	396.7	383.3	361.7	340.0
60°	2248.3	1538.3	796.7	506.7	450.0	433.3	436.7	435.0	415.0	383.3	350.0
62.5°	2641.7	1815.0	903.3	560.0	490.0	486.7	503.3	500.0	466.7	418.3	370.0
65°	2823.3	1945.0	933.3	571.7	498.3	513.3	546.7	543.3	501.7	435.0	373.3
66°	2826.7	1945.0	920.0	561.7	486.7	505.0	538.3	536.7	495.0	428.3	366.7
67.5°	2758.3	1891.7	881.7	541.7	463.3	476.7	506.7	505.0	466.7	411.7	353.3
70°	2501.7	1693.3	783.3	506.7	431.7	425.0	435.0	428.3	403.3	365.0	325.0
72.5°	2143.3	1421.7	683.3	480.0	410.0	383.3	376.7	371.7	351.7	330.0	305.0
75°	1688.3	1125.0	600.0	460.0	390.0	355.0	343.3	336.7	323.3	308.3	288.3
77.5°	1041.7	805.0	523.3	433.3	375.0	340.0	331.7	321.7	301.7	283.3	268.3
80°	465.0	498.3	430.0	378.3	335.0	303.3	290.0	275.0	255.0	243.3	235.0
82.5°	310.0	321.7	311.7	283.3	253.3	228.3	208.3	208.3	205.0	195.0	191.7
85°	198.3	200.0	193.3	175.0	163.3	148.3	140.0	141.7	148.3	146.7	145.0
87.5°	45.0	45.0	53.3	50.0	58.3	61.7	66.7	71.7	81.7	81.7	86.7
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: P156650

CATALOG NUMBER: TLM-E05-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1991.7	1991.7	1991.7	1991.7	1991.7
2.5°	2050.0	2053.3	2056.7	2051.7	2053.3
5°	2108.3	2106.7	2115.0	2110.0	2113.3
7.5°	2126.7	2128.3	2135.0	2135.0	2136.7
10°	2128.3	2131.7	2140.0	2145.0	2148.3
12.5°	2136.7	2143.3	2156.7	2160.0	2160.0
15°	2143.3	2146.7	2155.0	2158.3	2161.7
17.5°	2120.0	2113.3	2116.7	2118.3	2116.7
20°	2061.7	2055.0	2053.3	2046.7	2050.0
22.5°	1998.3	1980.0	1968.3	1955.0	1955.0
25°	1921.7	1893.3	1870.0	1846.7	1851.7
27.5°	1850.0	1813.3	1790.0	1775.0	1771.7
30°	1780.0	1741.7	1720.0	1701.7	1701.7
32.5°	1663.3	1636.7	1608.3	1596.7	1595.0
35°	1501.7	1485.0	1461.7	1456.7	1448.3
37.5°	1320.0	1315.0	1295.0	1293.3	1285.0
40°	1130.0	1133.3	1126.7	1123.3	1118.3
42.5°	940.0	956.7	953.3	951.7	948.3
45°	758.3	770.0	771.7	776.7	785.0
47.5°	596.7	600.0	603.3	601.7	603.3
50°	466.7	458.3	456.7	451.7	456.7
52.5°	376.7	363.3	356.7	350.0	346.7
55°	331.7	318.3	311.7	308.3	305.0
57.5°	320.0	306.7	296.7	290.0	288.3
60°	323.3	303.3	290.0	281.7	280.0
62.5°	331.7	305.0	286.7	278.3	276.7
65°	330.0	301.7	285.0	275.0	273.3
66°	325.0	298.3	281.7	273.3	271.7
67.5°	316.7	293.3	278.3	271.7	268.3
70°	301.7	286.7	275.0	266.7	263.3
72.5°	288.3	276.7	266.7	258.3	256.7
75°	273.3	263.3	253.3	246.7	245.0
77.5°	255.0	245.0	238.3	233.3	231.7
80°	225.0	218.3	211.7	205.0	205.0
82.5°	186.7	181.7	175.0	170.0	168.3
85°	143.3	143.3	138.3	133.3	131.7
87.5°	85.0	83.3	83.3	78.3	78.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)