

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: P151834

Luminaire Tested: **TLM-F06-LED-E1-SL4-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151834  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F06-LED-E1-SL4-HSS-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9205.4 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

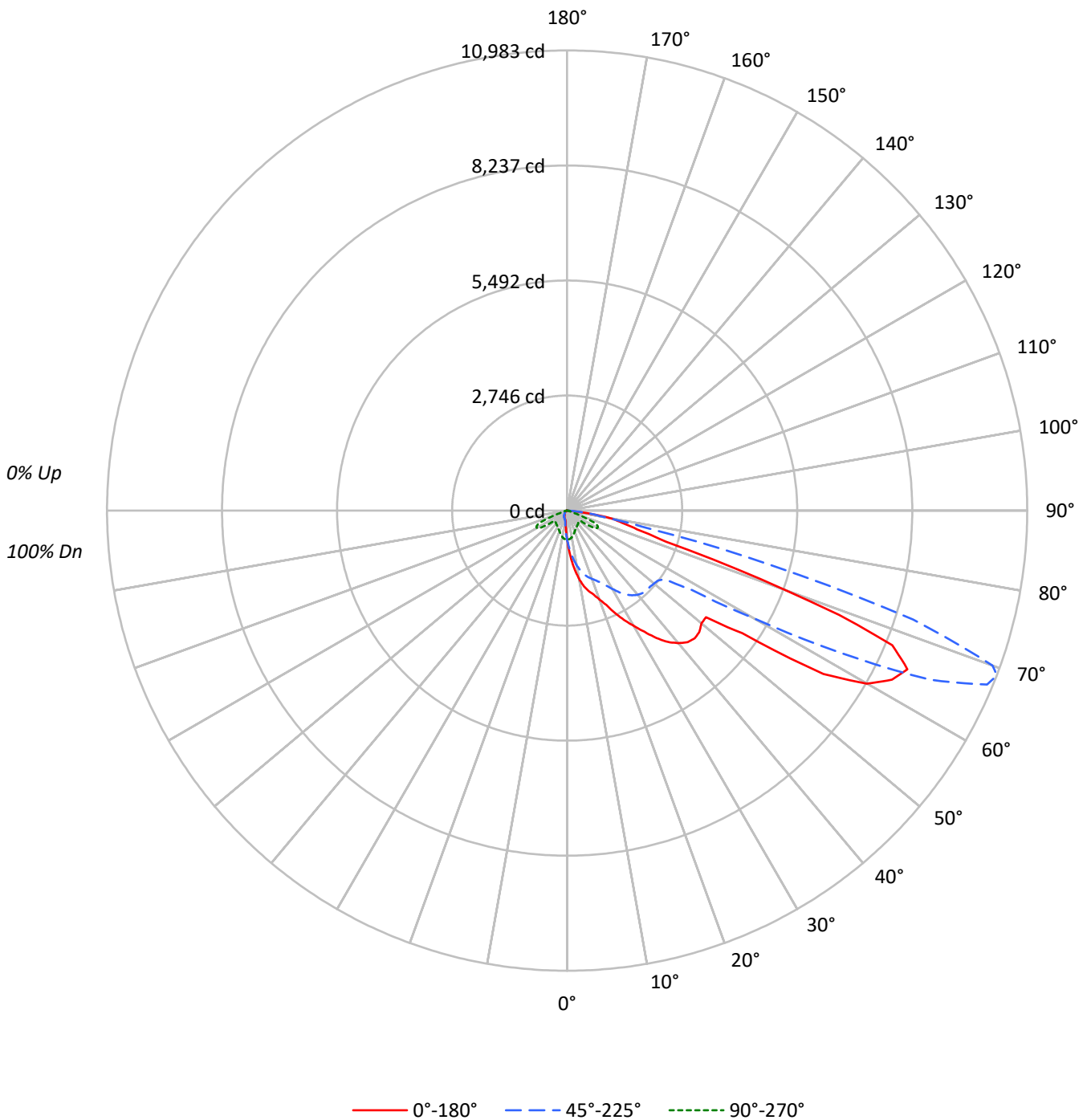
Input Watts (W): 156.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	99	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78	76					76			
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58	55					55			
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43	41					41			
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33	31					31			
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27	24					24			
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22	19					19			
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18	16					16			
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15	13					13			
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13	11					11			
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10					10			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	7483	7483	7483
5°	12791	7381	3927
10°	18213	7054	2522
15°	22148	6487	2286
20°	25841	6046	2073
25°	31987	5785	1827
30°	39472	5660	1556
35°	48786	5608	1307
40°	58037	5699	1208
45°	65606	5946	1239
50°	70101	6541	1137
55°	95793	11320	679
60°	177869	17952	487
65°	228220	19395	461
70°	172323	8019	522
75°	71744	3073	628
80°	65526	2895	843
85°	5768	2606	1494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	0.8
10°-20°	246.4	2.7
20°-30°	471.5	5.1
30°-40°	784.1	8.5
40°-50°	1061.1	11.5
50°-60°	1659.4	18.0
60°-70°	3411.7	37.1
70°-80°	1372.8	14.9
80°-90°	127.0	1.4
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°	789.3	8.6
0°-40°	1573.5	17.1
0°-60°	4293.9	46.6
0°-90°	9205.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9205.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	695	695	695	695	695	
5°	1184	1007	683	434	363	127
15°	1988	1576	582	216	205	568
25°	2693	1897	487	172	154	1261
35°	3713	2449	427	122	100	2328
45°	4310	2681	391	80	81	3294
55°	5104	2850	603	53	36	5147
65°	8960	9555	762	26	18	8209
75°	1725	5031	74	11	15	2313
85°	47	202	21	8	12	290
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°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	927.4	916.9	904.8	904.8	889.7	889.7	880.7	856.5	853.5	839.9	826.4
5°	1183.8	1174.7	1159.6	1146.1	1134.0	1112.9	1097.8	1069.2	1037.5	1007.3	980.2
7.5°	1434.1	1429.6	1402.4	1397.9	1378.3	1343.6	1313.5	1271.2	1216.9	1174.7	1125.0
10°	1666.3	1655.8	1649.7	1624.1	1595.5	1557.8	1511.0	1459.7	1396.4	1330.0	1259.2
12.5°	1850.3	1844.3	1817.1	1806.6	1776.4	1738.7	1679.9	1613.5	1550.2	1464.3	1381.3
15°	1987.5	1977.0	1958.9	1942.3	1906.1	1872.9	1818.6	1746.2	1669.3	1575.8	1476.3
17.5°	2102.1	2082.5	2078.0	2052.4	2014.7	1975.5	1915.1	1848.8	1758.3	1664.8	1556.2
20°	2255.9	2228.8	2219.8	2182.1	2138.3	2084.0	2014.7	1931.7	1836.7	1734.2	1622.6
22.5°	2436.9	2417.3	2397.7	2364.5	2308.7	2231.8	2130.8	2040.3	1919.7	1806.6	1685.9
25°	2693.3	2676.7	2645.0	2599.8	2530.4	2438.4	2316.3	2183.6	2041.8	1897.0	1755.3
27.5°	2942.1	2927.0	2904.4	2869.7	2791.3	2690.2	2539.5	2370.6	2191.1	2016.2	1859.3
30°	3175.8	3162.2	3139.6	3104.9	3035.6	2936.1	2765.6	2584.7	2361.5	2157.9	1969.4
32.5°	3427.7	3423.1	3397.5	3347.7	3287.4	3153.2	2967.7	2773.2	2547.0	2311.7	2091.6
35°	3712.7	3678.0	3653.9	3604.1	3501.5	3358.3	3141.1	2928.5	2690.2	2449.0	2203.2
37.5°	3953.9	3920.8	3890.6	3827.3	3702.1	3519.6	3273.8	3040.1	2794.3	2548.5	2298.2
40°	4130.4	4113.8	4077.6	3994.7	3854.4	3637.3	3371.9	3117.0	2869.7	2622.4	2375.1
42.5°	4261.6	4235.9	4195.2	4109.3	3943.4	3696.1	3411.1	3148.7	2904.4	2667.6	2424.8
45°	4309.8	4288.7	4251.0	4157.5	3978.1	3712.7	3409.6	3139.6	2905.9	2681.2	2458.0
47.5°	4281.2	4260.1	4226.9	4139.4	3963.0	3693.1	3382.4	3114.0	2890.8	2685.7	2488.2
50°	4186.2	4174.1	4148.5	4074.6	3916.2	3655.4	3358.3	3100.4	2887.8	2708.3	2530.4
52.5°	4177.1	4169.6	4137.9	4064.0	3902.7	3643.3	3355.3	3108.0	2913.4	2737.0	2560.6
55°	5104.5	4997.5	4757.7	4554.1	4219.3	3821.2	3507.6	3230.1	3022.0	2850.1	2726.4
57.5°	7254.9	7095.1	6779.9	6392.4	5623.3	4867.8	4263.1	3825.8	3610.1	3531.7	3578.5
60°	8262.3	8233.6	8183.8	7999.9	7606.3	6956.3	6232.5	5449.9	5136.2	5109.1	5204.1
62.5°	8740.3	8722.2	8737.3	8714.7	8592.5	8402.5	8194.4	7856.6	7546.0	7345.4	6920.2
65°	8960.5	8972.5	9058.5	9126.3	9141.4	9191.2	9343.5	9764.2	10071.8	9554.6	8373.9
67.5°	8401.0	8471.9	8669.4	8916.7	9206.3	9486.7	9939.1	10825.8	11457.7	10850.0	9173.1
69°	6954.8	6989.5	7472.1	7938.0	8645.3	9139.9	9795.9	10958.5	11668.8	10982.7	9109.7
70°	5475.5	5507.2	6024.4	6657.8	7853.6	8490.0	9348.0	10733.9	11471.3	10806.2	8784.0
72.5°	2470.1	2424.8	2607.3	2946.6	4246.5	5256.8	6757.3	8696.6	9464.1	8657.4	6571.8
75°	1725.1	1705.5	1725.1	1726.6	1928.7	2488.2	3139.6	4714.0	5829.9	5030.6	3139.6
77.5°	1336.1	1322.5	1308.9	1293.9	1318.0	1476.3	1539.7	1672.4	2171.5	2053.9	1197.3
80°	1057.1	1045.0	1078.2	1067.7	1067.7	1085.8	1073.7	1023.9	930.4	862.6	772.1
82.5°	491.6	494.6	494.6	536.8	646.9	755.5	790.2	740.4	657.5	559.5	450.9
85°	46.7	52.8	89.0	137.2	272.9	307.6	309.1	256.4	256.4	202.1	162.9
87.5°	0.0	1.5	1.5	1.5	13.6	37.7	31.7	9.0	4.5	4.5	7.5
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°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	802.2	797.7	779.6	761.5	744.9	726.8	710.3	693.7	675.6	662.0	645.4
5°	938.0	904.8	867.1	830.9	794.7	757.0	717.8	683.1	646.9	613.8	582.1
7.5°	1075.2	1010.4	959.1	894.2	835.4	776.6	722.3	666.5	615.3	567.0	521.8
10°	1191.3	1112.9	1033.0	950.0	865.6	787.2	711.8	645.4	577.6	518.7	463.0
12.5°	1286.3	1186.8	1088.8	984.7	889.7	790.2	696.7	616.8	536.8	470.5	413.2
15°	1372.3	1257.7	1140.0	1019.4	898.8	785.7	681.6	582.1	500.7	425.3	360.4
17.5°	1441.6	1310.4	1177.7	1042.0	912.3	779.6	662.0	558.0	463.0	384.5	321.2
20°	1502.0	1364.7	1221.5	1069.2	921.4	778.1	645.4	527.8	429.8	346.8	285.0
22.5°	1557.8	1420.5	1266.7	1103.8	935.0	776.6	630.3	505.2	401.1	318.2	256.4
25°	1621.1	1476.3	1315.0	1140.0	959.1	782.6	621.3	487.1	375.5	291.0	233.7
27.5°	1692.0	1539.7	1372.3	1185.3	990.7	794.7	618.3	467.5	352.9	265.4	215.6
30°	1791.5	1615.1	1429.6	1230.5	1019.4	808.3	615.3	455.4	330.2	245.8	197.5
32.5°	1879.0	1688.9	1492.9	1277.3	1051.1	821.9	613.8	438.8	309.1	226.2	184.0
35°	1970.9	1756.8	1547.2	1322.5	1078.2	836.9	612.2	426.8	289.5	206.6	170.4
37.5°	2050.9	1814.1	1589.4	1361.7	1108.4	850.5	613.8	416.2	271.4	190.0	158.3
40°	2118.7	1872.9	1636.2	1397.9	1140.0	871.6	615.3	405.6	253.3	174.9	147.8
42.5°	2179.0	1928.7	1685.9	1438.6	1176.2	895.7	624.3	396.6	238.3	161.4	137.2
45°	2225.8	1980.0	1740.2	1495.9	1235.0	935.0	640.9	390.6	223.2	149.3	128.2
47.5°	2274.0	2055.4	1832.2	1586.4	1321.0	996.8	669.5	389.1	211.1	140.2	120.6
50°	2340.4	2130.8	1913.6	1678.4	1399.4	1060.1	704.2	390.6	196.0	131.2	113.1
52.5°	2388.7	2207.7	2019.2	1838.2	1586.4	1253.1	838.4	417.7	188.5	123.7	104.1
55°	2673.7	2642.0	2646.5	2676.7	2482.1	2132.3	1402.4	603.2	221.7	140.2	102.5
57.5°	3770.0	3881.6	3946.4	3944.9	3623.7	3005.4	1883.5	775.1	247.3	162.9	122.1
60°	5211.6	5127.2	5008.0	4714.0	4287.2	3430.7	2106.7	833.9	214.1	129.7	111.6
62.5°	6485.9	5991.2	5552.4	5075.9	4516.4	3578.5	2151.9	829.4	187.0	98.0	78.4
65°	7280.6	6390.8	5682.1	5084.9	4425.9	3454.8	2035.8	761.5	158.3	79.9	64.8
67.5°	7470.6	6175.2	5172.4	4410.9	3697.6	2688.7	1494.4	573.0	123.7	66.4	57.3
69°	7055.9	5489.1	4285.7	3421.6	2690.2	1783.9	924.4	361.9	95.0	60.3	52.8
70°	6490.4	4774.3	3491.0	2746.0	1992.1	1253.1	646.9	254.8	76.9	55.8	48.3
72.5°	4175.6	2507.8	1716.1	1194.3	821.9	499.1	253.3	114.6	58.8	46.7	39.2
75°	1619.6	927.4	672.6	511.2	399.6	277.5	153.8	73.9	49.8	39.2	30.2
77.5°	797.7	610.7	499.1	342.3	199.1	123.7	82.9	57.3	40.7	28.7	19.6
80°	630.3	419.2	250.3	155.3	117.6	89.0	63.3	46.7	30.2	18.1	13.6
82.5°	322.7	176.4	129.7	105.6	87.5	69.4	51.3	33.2	19.6	12.1	10.6
85°	101.0	73.9	66.4	64.8	60.3	49.8	36.2	21.1	12.1	7.5	7.5
87.5°	7.5	10.6	13.6	10.6	12.1	10.6	13.6	9.0	6.0	6.0	4.5
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°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	633.4	615.3	598.7	588.1	568.5	561.0	553.4	550.4	536.8	539.9	527.8
5°	553.4	521.8	497.6	473.5	450.9	434.3	420.7	404.1	390.6	384.5	372.5
7.5°	481.0	440.3	408.7	383.0	355.9	334.8	316.7	304.6	292.5	280.5	274.5
10°	417.7	374.0	337.8	312.2	286.5	268.4	254.8	245.8	238.3	233.7	232.2
12.5°	358.9	316.7	283.5	260.9	241.3	232.2	226.2	221.7	220.2	218.7	218.7
15°	313.7	271.4	245.8	229.2	220.2	215.6	214.1	211.1	208.1	206.6	206.6
17.5°	271.4	239.8	221.7	212.6	208.1	205.1	202.1	199.1	196.0	194.5	194.5
20°	242.8	217.2	208.1	202.1	197.5	194.5	190.0	187.0	185.5	184.0	182.5
22.5°	220.2	203.6	197.5	193.0	187.0	182.5	179.5	176.4	173.4	171.9	170.4
25°	203.6	193.0	188.5	182.5	176.4	171.9	167.4	162.9	159.8	158.3	155.3
27.5°	191.5	184.0	177.9	170.4	164.4	159.8	155.3	150.8	147.8	144.8	143.3
30°	181.0	173.4	165.9	159.8	152.3	147.8	141.8	137.2	135.7	132.7	129.7
32.5°	170.4	162.9	155.3	147.8	140.2	134.2	131.2	125.2	122.1	120.6	117.6
35°	158.3	150.8	141.8	135.7	128.2	122.1	117.6	113.1	110.1	107.1	105.6
37.5°	147.8	138.7	129.7	122.1	116.1	110.1	105.6	101.0	98.0	95.0	93.5
40°	135.7	126.7	117.6	110.1	104.1	99.5	95.0	90.5	87.5	86.0	86.0
42.5°	125.2	114.6	105.6	99.5	95.0	89.0	84.4	79.9	78.4	76.9	78.4
45°	114.6	104.1	96.5	90.5	86.0	79.9	75.4	72.4	70.9	72.4	73.9
47.5°	105.6	95.0	87.5	82.9	78.4	73.9	69.4	66.4	66.4	69.4	72.4
50°	96.5	86.0	79.9	76.9	72.4	67.9	61.8	60.3	61.8	64.8	67.9
52.5°	87.5	75.4	70.9	69.4	64.8	60.3	55.8	54.3	55.8	58.8	57.3
55°	78.4	66.4	64.8	63.3	58.8	52.8	48.3	48.3	48.3	46.7	43.7
57.5°	75.4	58.8	57.3	55.8	51.3	45.2	42.2	39.2	37.7	33.2	31.7
60°	78.4	52.8	52.8	49.8	45.2	39.2	34.7	30.2	27.1	24.1	24.1
62.5°	63.3	48.3	46.7	43.7	37.7	31.7	27.1	22.6	21.1	19.6	19.6
65°	51.3	43.7	40.7	36.2	31.7	25.6	21.1	18.1	16.6	16.6	18.1
67.5°	46.7	39.2	34.7	30.2	25.6	19.6	16.6	15.1	15.1	16.6	16.6
69°	43.7	36.2	31.7	27.1	22.6	18.1	15.1	15.1	15.1	15.1	16.6
70°	40.7	34.7	30.2	25.6	19.6	15.1	13.6	13.6	15.1	15.1	16.6
72.5°	31.7	27.1	25.6	21.1	15.1	13.6	12.1	13.6	13.6	15.1	15.1
75°	24.1	19.6	19.6	16.6	12.1	10.6	10.6	12.1	12.1	13.6	13.6
77.5°	16.6	13.6	13.6	12.1	10.6	9.0	9.0	10.6	12.1	12.1	13.6
80°	12.1	10.6	9.0	10.6	9.0	7.5	9.0	10.6	10.6	12.1	12.1
82.5°	9.0	9.0	9.0	9.0	7.5	7.5	9.0	9.0	10.6	12.1	12.1
85°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.0	9.0	10.6	10.6
87.5°	4.5	4.5	4.5	6.0	6.0	7.5	7.5	7.5	7.5	9.0	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: P151834

CATALOG NUMBER: TLM-F06-LED-E1-SL4-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	695.2	695.2	695.2	695.2
2.5°	524.8	523.3	517.2	518.7
5°	367.9	358.9	364.9	363.4
7.5°	269.9	268.4	266.9	269.9
10°	230.7	230.7	229.2	230.7
12.5°	217.2	217.2	217.2	217.2
15°	206.6	206.6	205.1	205.1
17.5°	194.5	194.5	194.5	193.0
20°	182.5	181.0	181.0	181.0
22.5°	168.9	167.4	167.4	167.4
25°	155.3	153.8	153.8	153.8
27.5°	141.8	140.2	138.7	138.7
30°	128.2	126.7	125.2	125.2
32.5°	114.6	113.1	111.6	111.6
35°	102.5	102.5	101.0	99.5
37.5°	92.0	92.0	92.0	92.0
40°	84.4	86.0	86.0	86.0
42.5°	79.9	81.4	82.9	84.4
45°	76.9	79.9	81.4	81.4
47.5°	75.4	76.9	78.4	78.4
50°	69.4	67.9	67.9	67.9
52.5°	55.8	52.8	51.3	49.8
55°	40.7	39.2	36.2	36.2
57.5°	28.7	28.7	27.1	27.1
60°	22.6	22.6	21.1	22.6
62.5°	19.6	19.6	19.6	19.6
65°	18.1	18.1	18.1	18.1
67.5°	18.1	18.1	18.1	18.1
69°	16.6	16.6	16.6	16.6
70°	16.6	16.6	16.6	16.6
72.5°	15.1	15.1	15.1	15.1
75°	13.6	15.1	15.1	15.1
77.5°	13.6	13.6	13.6	13.6
80°	12.1	12.1	13.6	13.6
82.5°	12.1	12.1	12.1	12.1
85°	10.6	10.6	12.1	12.1
87.5°	9.0	9.0	10.6	10.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)