

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: P150693

Luminaire Tested: **TLM-F06-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150693
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7248.1 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

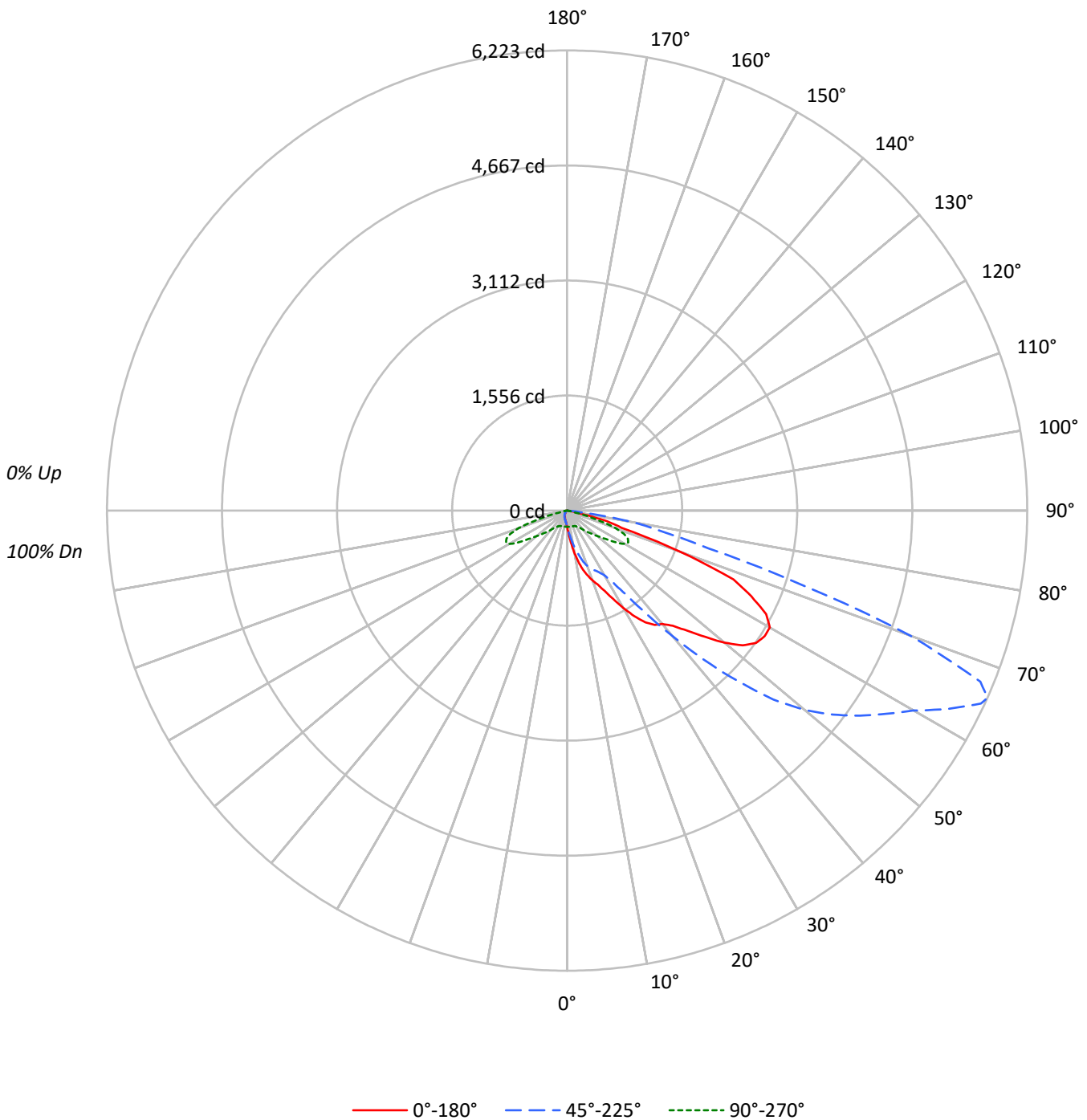
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76					76			
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55					55			
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40					40			
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30					30			
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23					23			
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17					17			
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14					14			
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11					11			
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9					9			
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7					7			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2355	2355	2355
5°	3945	2371	1731
10°	6473	2391	1447
15°	9239	2492	1227
20°	11493	2578	1054
25°	14216	2730	893
30°	18896	3057	762
35°	24244	3616	641
40°	28117	4758	509
45°	34916	6427	382
50°	46506	8961	373
55°	58577	13102	418
60°	68127	19439	450
65°	70024	23087	497
70°	51179	22169	570
75°	23065	9651	753
80°	4147	2417	1122
85°	346	2155	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	0.3
10°-20°	103.8	1.4
20°-30°	224.0	3.1
30°-40°	478.3	6.6
40°-50°	1057.8	14.6
50°-60°	1792.6	24.7
60°-70°	2392.0	33.0
70°-80°	1053.7	14.5
80°-90°	121.4	1.7
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°	352.3	4.9
0°-40°	830.6	11.5
0°-60°	3681.0	50.8
0°-90°	7248.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7248.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	219	219	219	219	219	
5°	365	309	219	166	160	42
15°	829	633	224	118	110	237
25°	1197	893	230	86	75	573
35°	1845	1382	275	58	49	1144
45°	2294	3254	422	35	25	1813
55°	3121	4835	698	17	22	2751
65°	2749	6173	906	12	20	2625
75°	555	1976	232	10	18	612
85°	3	42	17	8	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8
2.5°	275.9	274.5	268.9	268.9	260.6	255.0	248.0	241.1	241.1	239.7	238.3
5°	365.1	356.7	355.3	340.0	327.5	309.4	292.6	270.3	267.5	264.8	263.4
7.5°	464.0	462.6	450.1	432.0	406.9	373.5	340.0	303.8	298.2	295.4	289.8
10°	592.2	585.3	568.5	537.9	500.3	455.7	401.3	344.2	337.2	331.6	328.9
12.5°	714.9	702.3	692.6	653.5	606.2	540.7	475.2	393.0	387.4	380.4	369.3
15°	829.1	818.0	801.2	767.8	714.9	632.6	556.0	455.7	441.7	432.0	423.6
17.5°	918.3	911.3	891.8	854.2	797.1	724.6	632.6	519.8	508.6	496.1	480.7
20°	1003.3	993.5	962.9	911.3	850.0	794.3	723.2	603.4	588.0	572.7	556.0
22.5°	1084.1	1074.4	1024.2	939.2	873.7	850.0	824.9	698.1	674.4	661.9	645.2
25°	1197.0	1176.1	1098.1	962.9	875.1	893.2	936.4	820.8	798.5	780.3	753.9
27.5°	1348.9	1321.0	1198.4	997.7	880.7	940.6	1064.6	969.9	946.2	925.3	896.0
30°	1520.3	1502.2	1355.8	1081.3	921.1	1010.3	1208.1	1159.4	1131.5	1106.4	1071.6
32.5°	1693.1	1668.0	1523.1	1240.2	1029.8	1145.4	1387.9	1379.5	1343.3	1319.6	1282.0
35°	1845.0	1832.4	1725.1	1500.8	1277.8	1382.3	1627.6	1637.3	1605.3	1580.2	1538.4
37.5°	1948.1	1948.1	1927.2	1780.9	1672.2	1750.2	1980.1	1981.5	1949.5	1892.3	1871.4
40°	2001.0	2016.4	2091.6	2119.5	2113.9	2214.2	2442.8	2417.7	2391.2	2361.9	2292.3
42.5°	2109.7	2123.6	2283.9	2476.2	2601.6	2734.0	2891.5	2883.1	2851.0	2798.1	2734.0
45°	2293.7	2311.8	2502.7	2807.8	3065.6	3253.8	3354.1	3315.1	3283.0	3232.9	3199.4
47.5°	2527.8	2562.6	2778.6	3156.2	3467.0	3777.7	3882.2	3779.1	3751.2	3712.2	3657.9
50°	2777.2	2810.6	3040.6	3472.5	3823.7	4194.3	4368.5	4194.3	4153.9	4141.4	4080.1
52.5°	2993.2	3021.0	3242.6	3716.4	4096.8	4531.6	4785.2	4555.3	4526.0	4484.2	4439.6
55°	3121.4	3143.7	3351.3	3833.4	4282.1	4835.3	5187.9	4985.8	4942.6	4925.9	4861.8
57.5°	3164.6	3186.9	3373.6	3848.8	4382.5	5112.6	5677.0	5684.0	5632.4	5572.5	5553.0
60°	3164.6	3189.7	3347.1	3811.1	4480.0	5408.1	6329.1	6910.2	6798.7	6787.6	6716.5
62.5°	3033.6	3057.3	3216.1	3695.5	4611.0	5806.6	7237.7	8263.3	8231.2	8158.8	8041.7
65°	2749.3	2763.3	2919.3	3400.1	4560.8	6173.1	8025.0	9163.5	9111.9	8969.8	8819.3
66°	2621.1	2632.3	2778.6	3231.5	4396.4	6223.2	8164.3	9276.3	9191.3	9071.5	8901.5
67.5°	2435.8	2455.3	2558.4	2917.9	4002.0	6049.1	8076.6	9196.9	9123.1	8978.1	8808.1
70°	1626.2	1612.2	1975.9	2239.3	3048.9	4928.7	7246.0	8257.7	8259.1	8190.8	8122.5
72.5°	772.0	780.3	886.2	1378.1	1995.5	3292.8	5767.6	6591.1	6685.9	6563.2	6478.2
75°	554.6	567.1	631.2	843.1	1190.0	1975.9	3738.7	4609.6	4612.4	4395.0	4201.3
77.5°	161.6	168.6	236.9	519.8	891.8	1333.6	2147.3	2562.6	2502.7	2346.6	2200.3
80°	66.9	66.9	69.7	165.8	358.1	905.8	1502.2	1973.2	1966.2	1906.3	1819.9
82.5°	25.1	26.5	33.4	68.3	85.0	223.0	1001.9	1712.6	1708.4	1623.4	1562.1
85°	2.8	2.8	8.4	29.3	32.0	41.8	200.7	755.3	751.1	755.3	661.9
87.5°	0.0	0.0	1.4	2.8	4.2	5.6	8.4	29.3	32.0	30.7	27.9
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8
2.5°	238.3	235.5	235.5	234.1	234.1	234.1	232.7	231.3	231.3	229.9	228.5
5°	260.6	257.8	256.4	253.6	252.2	250.8	248.0	246.6	243.9	242.5	241.1
7.5°	287.1	281.5	280.1	275.9	271.7	268.9	266.2	262.0	259.2	253.6	252.2
10°	320.5	313.5	308.0	302.4	298.2	291.2	287.1	281.5	275.9	271.7	267.5
12.5°	363.7	353.9	345.6	340.0	330.3	321.9	313.5	309.4	298.2	292.6	285.7
15°	411.1	399.9	390.2	379.0	372.1	358.1	347.0	334.4	328.9	319.1	308.0
17.5°	472.4	454.3	438.9	427.8	413.9	399.9	387.4	374.8	358.1	347.0	333.0
20°	537.9	522.6	501.6	482.1	465.4	448.7	430.6	413.9	398.5	380.4	363.7
22.5°	621.5	599.2	574.1	554.6	532.3	514.2	489.1	466.8	441.7	418.0	398.5
25°	727.4	698.1	674.4	646.6	620.1	592.2	561.6	533.7	501.6	479.4	445.9
27.5°	858.4	830.5	798.5	762.2	735.8	693.9	653.5	618.7	581.1	546.2	508.6
30°	1025.6	985.2	951.7	916.9	864.0	823.5	776.2	728.8	677.2	642.4	585.3
32.5°	1226.3	1183.1	1132.9	1082.7	1034.0	976.8	918.3	859.8	802.6	738.5	680.0
35°	1471.5	1419.9	1362.8	1308.5	1233.2	1171.9	1098.1	1017.2	953.1	879.3	805.4
37.5°	1796.2	1711.2	1661.0	1603.9	1502.2	1418.6	1336.3	1255.5	1142.6	1064.6	960.1
40°	2203.1	2152.9	2070.7	1978.7	1886.8	1776.7	1665.2	1557.9	1426.9	1318.2	1197.0
42.5°	2681.0	2607.2	2523.6	2391.2	2297.8	2168.2	2041.4	1899.3	1739.1	1599.7	1457.6
45°	3129.7	3041.9	2977.8	2845.5	2747.9	2594.6	2441.4	2290.9	2105.5	1925.8	1761.3
47.5°	3614.7	3542.2	3436.3	3329.0	3230.1	3057.3	2891.5	2708.9	2513.8	2300.6	2087.4
50°	4041.1	3983.9	3911.5	3781.9	3671.8	3526.9	3331.8	3132.5	2885.9	2674.1	2431.6
52.5°	4403.4	4358.8	4257.1	4165.1	4066.1	3929.6	3755.4	3564.5	3298.3	3065.6	2789.7
55°	4831.2	4799.1	4709.9	4652.8	4565.0	4434.0	4271.0	4094.0	3812.5	3558.9	3246.8
57.5°	5532.1	5507.0	5429.0	5405.3	5318.9	5204.6	5004.0	4814.4	4485.6	4170.7	3813.9
60°	6692.8	6642.7	6528.4	6469.9	6287.3	6134.1	5873.5	5612.9	5215.8	4814.4	4385.3
62.5°	7935.8	7795.1	7577.7	7391.0	7131.8	6865.6	6517.3	6118.7	5653.3	5176.7	4683.5
65°	8606.1	8366.4	8091.9	7795.1	7459.3	7067.7	6628.7	6150.8	5650.5	5147.5	4626.3
66°	8682.7	8412.4	8121.1	7790.9	7417.4	7000.8	6554.9	6053.2	5533.5	5043.0	4521.8
67.5°	8586.6	8303.7	7995.7	7629.3	7225.1	6793.2	6325.0	5803.8	5303.6	4806.1	4298.9
70°	7913.5	7632.0	7357.5	6971.5	6541.0	6106.2	5663.1	5080.6	4606.8	4149.8	3698.3
72.5°	6319.4	6128.5	5856.8	5526.5	5107.1	4597.1	4227.8	3706.6	3295.6	2852.4	2502.7
75°	3949.1	3680.2	3344.3	2923.5	2603.0	2189.1	1973.2	1577.4	1343.3	1138.5	940.6
77.5°	2019.1	1817.1	1581.6	1344.7	1117.6	891.8	689.8	487.7	328.9	228.5	170.0
80°	1668.0	1489.6	1294.5	1078.5	877.9	681.4	490.5	334.4	213.2	139.3	108.7
82.5°	1378.1	1227.6	1053.5	852.8	678.6	535.1	372.1	242.5	150.5	97.5	76.6
85°	586.7	532.3	411.1	326.1	245.3	181.2	126.8	85.0	59.9	48.8	44.6
87.5°	25.1	27.9	26.5	20.9	15.3	15.3	13.9	11.1	11.1	11.1	11.1
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8	218.8
2.5°	228.5	227.1	225.7	225.7	224.3	223.0	214.6	207.6	199.3	193.7	188.1
5°	238.3	236.9	234.1	232.7	229.9	228.5	210.4	195.1	182.5	172.8	165.8
7.5°	248.0	246.6	242.5	238.3	236.9	234.1	204.8	185.3	168.6	157.5	150.5
10°	260.6	256.4	252.2	246.6	242.5	238.3	199.3	174.2	156.1	146.3	139.3
12.5°	278.7	271.7	264.8	257.8	252.2	245.3	196.5	164.4	146.3	135.2	128.2
15°	299.6	289.8	281.5	273.1	263.4	256.4	190.9	156.1	138.0	126.8	118.4
17.5°	319.1	308.0	295.4	282.9	273.1	263.4	185.3	147.7	129.6	118.4	110.1
20°	347.0	330.3	314.9	299.6	285.7	273.1	177.0	139.3	122.6	110.1	101.7
22.5°	377.6	358.1	338.6	317.7	299.6	282.9	170.0	132.4	115.7	103.1	93.4
25°	416.6	393.0	366.5	340.0	319.1	296.8	163.0	125.4	108.7	96.1	86.4
27.5°	471.0	437.5	408.3	374.8	342.8	317.7	157.5	119.8	101.7	89.2	79.4
30°	544.8	496.1	450.1	413.9	376.2	340.0	151.9	112.9	96.1	82.2	71.1
32.5°	627.1	569.9	517.0	462.6	415.3	373.5	146.3	107.3	89.2	75.2	65.5
35°	728.8	656.3	585.3	522.6	465.4	409.7	140.7	101.7	83.6	68.3	58.5
37.5°	875.1	784.5	691.2	610.3	536.5	462.6	136.6	96.1	76.6	61.3	51.6
40°	1075.8	958.7	844.4	734.4	638.2	546.2	131.0	90.6	71.1	55.7	46.0
42.5°	1293.1	1151.0	1000.5	876.5	744.1	628.5	125.4	85.0	65.5	50.2	40.4
45°	1563.5	1386.5	1204.0	1035.3	873.7	724.6	119.8	79.4	58.5	44.6	34.8
47.5°	1858.9	1633.1	1426.9	1215.1	1022.8	844.4	112.9	75.2	53.0	39.0	30.7
50°	2162.7	1924.4	1663.8	1422.7	1194.2	964.3	105.9	68.3	47.4	34.8	25.1
52.5°	2490.1	2208.7	1942.5	1642.9	1376.7	1121.7	98.9	62.7	43.2	30.7	20.9
55°	2906.8	2591.9	2279.7	1943.9	1623.4	1304.3	92.0	55.7	37.6	26.5	16.7
57.5°	3430.7	3057.3	2674.1	2295.0	1906.3	1544.0	86.4	48.8	32.0	22.3	13.9
60°	3925.4	3489.3	3025.2	2589.1	2150.1	1727.9	78.0	43.2	27.9	18.1	13.9
62.5°	4181.8	3684.3	3184.1	2703.3	2235.1	1793.4	69.7	36.2	23.7	15.3	12.5
65°	4119.1	3611.9	3126.9	2642.0	2183.6	1751.6	61.3	32.0	20.9	13.9	12.5
66°	4028.5	3526.9	3039.2	2577.9	2140.4	1707.0	57.1	30.7	19.5	13.9	11.1
67.5°	3830.7	3345.7	2880.3	2451.1	2021.9	1622.0	51.6	27.9	18.1	12.5	11.1
70°	3271.9	2831.5	2459.5	2077.7	1727.9	1367.0	41.8	23.7	15.3	11.1	11.1
72.5°	2165.5	1865.9	1617.8	1392.1	1163.5	903.0	34.8	19.5	12.5	11.1	9.8
75°	816.6	738.5	634.0	569.9	497.5	436.2	27.9	12.5	9.8	9.8	9.8
77.5°	144.9	133.8	118.4	108.7	100.3	92.0	22.3	8.4	8.4	9.8	9.8
80°	97.5	90.6	82.2	75.2	69.7	62.7	15.3	7.0	8.4	8.4	9.8
82.5°	69.7	65.5	61.3	55.7	51.6	46.0	9.8	7.0	8.4	8.4	8.4
85°	41.8	39.0	36.2	33.4	29.3	27.9	7.0	7.0	7.0	8.4	8.4
87.5°	11.1	9.8	11.1	11.1	8.4	9.8	5.6	5.6	5.6	7.0	7.0
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: P150693

CATALOG NUMBER: TLM-F06-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	218.8	218.8	218.8	218.8	218.8
2.5°	185.3	185.3	182.5	186.7	186.7
5°	160.2	160.2	158.9	160.2	160.2
7.5°	146.3	144.9	144.9	144.9	146.3
10°	133.8	132.4	132.4	132.4	132.4
12.5°	122.6	121.2	119.8	121.2	121.2
15°	112.9	110.1	110.1	110.1	110.1
17.5°	104.5	101.7	100.3	100.3	100.3
20°	96.1	92.0	92.0	92.0	92.0
22.5°	87.8	83.6	83.6	83.6	83.6
25°	79.4	75.2	75.2	75.2	75.2
27.5°	72.5	68.3	68.3	68.3	68.3
30°	64.1	61.3	61.3	62.7	61.3
32.5°	58.5	54.3	54.3	55.7	55.7
35°	51.6	48.8	48.8	48.8	48.8
37.5°	44.6	41.8	41.8	41.8	41.8
40°	39.0	36.2	34.8	36.2	36.2
42.5°	33.4	30.7	29.3	29.3	29.3
45°	29.3	25.1	23.7	25.1	25.1
47.5°	23.7	20.9	20.9	22.3	22.3
50°	18.1	18.1	19.5	22.3	22.3
52.5°	16.7	16.7	19.5	22.3	22.3
55°	15.3	16.7	19.5	20.9	22.3
57.5°	13.9	16.7	19.5	20.9	20.9
60°	13.9	15.3	18.1	20.9	20.9
62.5°	12.5	13.9	16.7	19.5	19.5
65°	12.5	13.9	16.7	19.5	19.5
66°	12.5	13.9	16.7	19.5	19.5
67.5°	12.5	13.9	16.7	19.5	19.5
70°	12.5	13.9	16.7	18.1	18.1
72.5°	11.1	12.5	15.3	18.1	18.1
75°	11.1	12.5	15.3	18.1	18.1
77.5°	11.1	12.5	15.3	18.1	18.1
80°	11.1	12.5	15.3	16.7	18.1
82.5°	9.8	12.5	13.9	16.7	16.7
85°	9.8	11.1	13.9	15.3	16.7
87.5°	8.4	9.8	11.1	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)