

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: P150695

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150695
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8587.9 lumens
Efficiency: N/A
Efficacy: 54.9 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

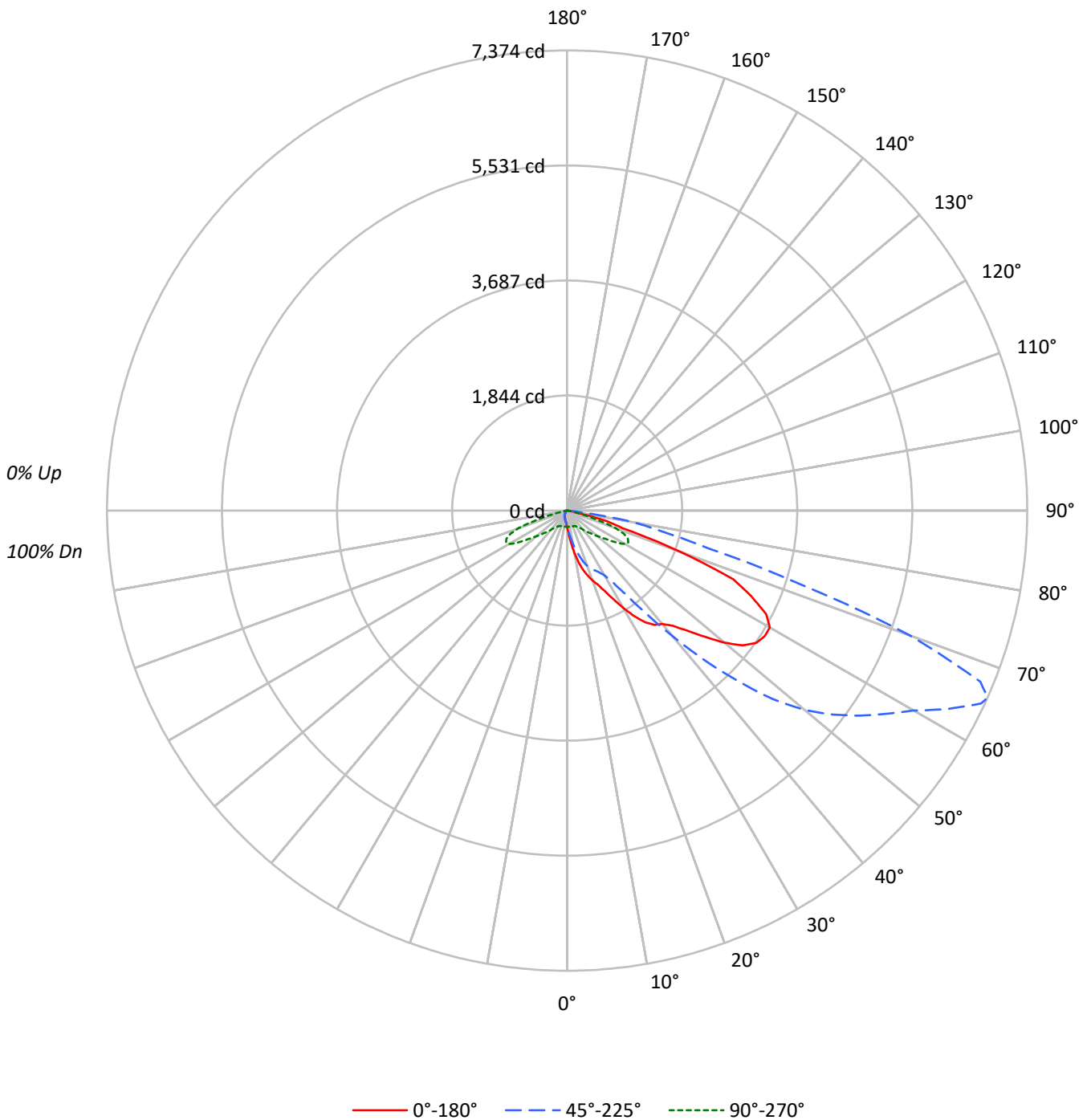
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	98	93	87	102	96	91	86	92	87	83	88	84	81	84	81	78	76
2	91	80	71	63	88	78	69	62	74	67	61	71	64	59	67	62	58	55
3	80	66	55	46	77	64	54	46	61	52	45	58	50	44	55	48	43	40
4	71	55	43	35	68	53	43	34	51	41	34	48	40	33	45	38	32	30
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	23
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14
8	48	31	21	14	46	30	21	14	29	20	14	28	19	13	26	19	13	11
9	44	28	18	12	42	27	18	12	26	17	11	25	17	11	24	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2790	2790	2790
5°	4674	2810	2052
10°	7670	2833	1714
15°	10947	2953	1453
20°	13617	3054	1249
25°	16845	3236	1059
30°	22389	3622	902
35°	28725	4285	760
40°	33314	5637	603
45°	41369	7615	452
50°	55102	10617	442
55°	69405	15523	495
60°	80719	23033	534
65°	82967	27354	588
70°	60639	26266	677
75°	27328	11433	894
80°	4916	2867	1333
85°	408	2550	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.3
10°-20°	123.0	1.4
20°-30°	265.4	3.1
30°-40°	566.7	6.6
40°-50°	1253.3	14.6
50°-60°	2123.9	24.7
60°-70°	2834.2	33.0
70°-80°	1248.5	14.5
80°-90°	143.8	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°	417.4	4.9
0°-40°	984.2	11.5
0°-60°	4361.4	50.8
0°-90°	8587.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8587.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	259	259	259	259	259	
5°	433	366	260	196	190	49
15°	982	750	265	140	130	281
25°	1418	1058	272	102	89	679
35°	2186	1638	326	69	58	1356
45°	2718	3855	500	41	30	2148
55°	3698	5729	827	20	26	3259
65°	3258	7314	1074	15	23	3110
75°	657	2341	275	12	22	725
85°	3	50	21	10	20	20
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°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	326.9	325.3	318.7	318.7	308.7	302.1	293.9	285.6	285.6	284.0	282.3
5°	432.6	422.7	421.0	402.9	388.0	366.5	346.7	320.3	317.0	313.7	312.0
7.5°	549.8	548.1	533.3	511.8	482.1	442.5	402.9	359.9	353.3	350.0	343.4
10°	701.7	693.4	673.6	637.3	592.7	539.9	475.5	407.8	399.6	392.9	389.6
12.5°	847.0	832.1	820.6	774.3	718.2	640.6	563.0	465.6	459.0	450.7	437.5
15°	982.4	969.2	949.4	909.7	847.0	749.6	658.8	539.9	523.4	511.8	501.9
17.5°	1088.0	1079.8	1056.7	1012.1	944.4	858.5	749.6	615.8	602.6	587.8	569.6
20°	1188.8	1177.2	1140.9	1079.8	1007.1	941.1	856.9	714.9	696.7	678.6	658.8
22.5°	1284.5	1273.0	1213.5	1112.8	1035.2	1007.1	977.4	827.2	799.1	784.2	764.4
25°	1418.3	1393.5	1301.0	1140.9	1036.9	1058.3	1109.5	972.5	946.1	924.6	893.2
27.5°	1598.2	1565.2	1419.9	1182.2	1043.5	1114.5	1261.4	1149.1	1121.1	1096.3	1061.6
30°	1801.3	1779.8	1606.5	1281.2	1091.3	1197.0	1431.5	1373.7	1340.7	1310.9	1269.7
32.5°	2006.0	1976.3	1804.6	1469.4	1220.1	1357.2	1644.4	1634.5	1591.6	1563.5	1519.0
35°	2186.0	2171.1	2044.0	1778.2	1514.0	1637.8	1928.4	1940.0	1902.0	1872.3	1822.8
37.5°	2308.2	2308.2	2283.4	2110.0	1981.3	2073.7	2346.1	2347.8	2309.8	2242.1	2217.4
40°	2370.9	2389.1	2478.2	2511.2	2504.6	2623.5	2894.3	2864.6	2833.2	2798.5	2716.0
42.5°	2499.7	2516.2	2706.1	2933.9	3082.5	3239.4	3425.9	3416.0	3378.0	3315.3	3239.4
45°	2717.6	2739.1	2965.3	3326.9	3632.3	3855.2	3974.1	3927.8	3889.9	3830.4	3790.8
47.5°	2995.0	3036.3	3292.2	3739.6	4107.8	4476.0	4599.8	4477.6	4444.6	4398.4	4334.0
50°	3290.5	3330.2	3602.6	4114.4	4530.5	4969.7	5176.0	4969.7	4921.8	4906.9	4834.3
52.5°	3546.5	3579.5	3842.0	4403.3	4854.1	5369.2	5669.7	5397.3	5362.6	5313.1	5260.2
55°	3698.4	3724.8	3970.8	4542.0	5073.7	5729.1	6146.9	5907.5	5856.3	5836.5	5760.5
57.5°	3749.5	3776.0	3997.2	4560.2	5192.6	6057.7	6726.4	6734.6	6673.5	6602.5	6579.4
60°	3749.5	3779.3	3965.8	4515.6	5308.1	6407.7	7499.1	8187.6	8055.5	8042.3	7958.1
62.5°	3594.3	3622.4	3810.6	4378.6	5463.3	6879.9	8575.6	9790.7	9752.8	9666.9	9528.2
65°	3257.5	3274.0	3458.9	4028.6	5403.9	7314.2	9508.4	10857.3	10796.2	10627.8	10449.5
66°	3105.6	3118.8	3292.2	3828.8	5209.1	7373.6	9673.5	10991.0	10890.3	10748.3	10546.9
67.5°	2886.0	2909.1	3031.3	3457.3	4741.8	7167.2	9569.5	10896.9	10809.4	10637.7	10436.3
70°	1926.8	1910.3	2341.2	2653.2	3612.5	5839.8	8585.5	9784.1	9785.8	9704.9	9624.0
72.5°	914.7	924.6	1050.1	1632.9	2364.3	3901.4	6833.7	7809.5	7921.7	7776.4	7675.7
75°	657.1	672.0	747.9	998.9	1410.0	2341.2	4429.8	5461.7	5465.0	5207.4	4977.9
77.5°	191.5	199.8	280.7	615.8	1056.7	1580.1	2544.3	3036.3	2965.3	2780.4	2607.0
80°	79.3	79.3	82.6	196.5	424.3	1073.2	1779.8	2337.9	2329.6	2258.6	2156.3
82.5°	29.7	31.4	39.6	80.9	100.7	264.2	1187.1	2029.1	2024.2	1923.5	1850.8
85°	3.3	3.3	9.9	34.7	38.0	49.5	237.8	894.9	889.9	894.9	784.2
87.5°	0.0	0.0	1.7	3.3	5.0	6.6	9.9	34.7	38.0	36.3	33.0
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	282.3	279.0	279.0	277.4	277.4	277.4	275.7	274.1	274.1	272.4	270.8
5°	308.7	305.4	303.8	300.5	298.8	297.2	293.9	292.2	288.9	287.3	285.6
7.5°	340.1	333.5	331.9	326.9	322.0	318.7	315.4	310.4	307.1	300.5	298.8
10°	379.7	371.5	364.9	358.3	353.3	345.1	340.1	333.5	326.9	322.0	317.0
12.5°	430.9	419.4	409.5	402.9	391.3	381.4	371.5	366.5	353.3	346.7	338.5
15°	487.1	473.9	462.3	449.1	440.8	424.3	411.1	396.3	389.6	378.1	364.9
17.5°	559.7	538.2	520.1	506.9	490.4	473.9	459.0	444.1	424.3	411.1	394.6
20°	637.3	619.1	594.4	571.3	551.5	531.6	510.2	490.4	472.2	450.7	430.9
22.5°	736.4	710.0	680.2	657.1	630.7	609.2	579.5	553.1	523.4	495.3	472.2
25°	861.8	827.2	799.1	766.1	734.7	701.7	665.4	632.4	594.4	568.0	528.3
27.5°	1017.0	984.0	946.1	903.1	871.8	822.2	774.3	733.1	688.5	647.2	602.6
30°	1215.2	1167.3	1127.7	1086.4	1023.7	975.8	919.6	863.5	802.4	761.1	693.4
32.5°	1452.9	1401.7	1342.3	1282.9	1225.1	1157.4	1088.0	1018.7	951.0	875.1	805.7
35°	1743.5	1682.4	1614.7	1550.3	1461.2	1388.5	1301.0	1205.3	1129.3	1041.8	954.3
37.5°	2128.2	2027.5	1968.1	1900.4	1779.8	1680.8	1583.4	1487.6	1353.9	1261.4	1137.6
40°	2610.3	2550.9	2453.5	2344.5	2235.5	2105.1	1973.0	1845.9	1690.7	1561.9	1418.3
42.5°	3176.6	3089.1	2990.1	2833.2	2722.6	2569.0	2418.8	2250.4	2060.5	1895.4	1727.0
45°	3708.3	3604.2	3528.3	3371.4	3255.9	3074.3	2892.6	2714.3	2494.7	2281.8	2086.9
47.5°	4282.8	4197.0	4071.5	3944.4	3827.1	3622.4	3425.9	3209.6	2978.5	2725.9	2473.3
50°	4788.0	4720.4	4634.5	4480.9	4350.5	4178.8	3947.7	3711.6	3419.3	3168.4	2881.1
52.5°	5217.3	5164.5	5044.0	4935.0	4817.8	4656.0	4449.6	4223.4	3908.0	3632.3	3305.4
55°	5724.2	5686.2	5580.5	5512.9	5408.8	5253.6	5060.5	4850.8	4517.3	4216.8	3846.9
57.5°	6554.7	6524.9	6432.5	6404.4	6302.1	6166.7	5928.9	5704.4	5314.7	4941.6	4518.9
60°	7930.0	7870.6	7735.2	7665.8	7449.5	7267.9	6959.2	6650.4	6179.9	5704.4	5195.9
62.5°	9402.7	9236.0	8978.4	8757.2	8450.1	8134.7	7722.0	7249.8	6698.3	6133.7	5549.2
65°	10196.9	9912.9	9587.6	9236.0	8838.1	8374.1	7854.0	7287.7	6695.0	6099.0	5481.5
66°	10287.7	9967.4	9622.3	9231.0	8788.5	8294.9	7766.5	7172.2	6556.3	5975.1	5357.7
67.5°	10173.8	9838.6	9473.7	9039.5	8560.7	8048.9	7494.1	6876.6	6283.9	5694.5	5093.5
70°	9376.3	9042.8	8717.5	8260.2	7750.0	7234.9	6709.9	6019.7	5458.4	4916.8	4381.9
72.5°	7487.5	7261.3	6939.4	6548.1	6051.1	5446.8	5009.3	4391.8	3904.7	3379.7	2965.3
75°	4679.1	4360.4	3962.5	3463.9	3084.2	2593.8	2337.9	1869.0	1591.6	1348.9	1114.5
77.5°	2392.4	2153.0	1873.9	1593.3	1324.1	1056.7	817.3	577.9	389.6	270.8	201.4
80°	1976.3	1765.0	1533.8	1277.9	1040.2	807.4	581.2	396.3	252.6	165.1	128.8
82.5°	1632.9	1454.6	1248.2	1010.4	804.1	634.0	440.8	287.3	178.3	115.6	90.8
85°	695.1	630.7	487.1	386.3	290.6	214.6	150.2	100.7	71.0	57.8	52.8
87.5°	29.7	33.0	31.4	24.8	18.2	18.2	16.5	13.2	13.2	13.2	13.2
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°	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2	259.2
2.5°	270.8	269.1	267.5	267.5	265.8	264.2	254.3	246.0	236.1	229.5	222.9
5°	282.3	280.7	277.4	275.7	272.4	270.8	249.3	231.1	216.3	204.7	196.5
7.5°	293.9	292.2	287.3	282.3	280.7	277.4	242.7	219.6	199.8	186.6	178.3
10°	308.7	303.8	298.8	292.2	287.3	282.3	236.1	206.4	184.9	173.4	165.1
12.5°	330.2	322.0	313.7	305.4	298.8	290.6	232.8	194.8	173.4	160.2	151.9
15°	355.0	343.4	333.5	323.6	312.0	303.8	226.2	184.9	163.5	150.2	140.3
17.5°	378.1	364.9	350.0	335.2	323.6	312.0	219.6	175.0	153.5	140.3	130.4
20°	411.1	391.3	373.1	355.0	338.5	323.6	209.7	165.1	145.3	130.4	120.5
22.5°	447.4	424.3	401.2	376.4	355.0	335.2	201.4	156.8	137.0	122.2	110.6
25°	493.7	465.6	434.2	402.9	378.1	351.7	193.2	148.6	128.8	113.9	102.4
27.5°	558.1	518.4	483.8	444.1	406.2	376.4	186.6	142.0	120.5	105.7	94.1
30°	645.6	587.8	533.3	490.4	445.8	402.9	180.0	133.7	113.9	97.4	84.2
32.5°	743.0	675.3	612.5	548.1	492.0	442.5	173.4	127.1	105.7	89.2	77.6
35°	863.5	777.6	693.4	619.1	551.5	485.4	166.8	120.5	99.1	80.9	69.3
37.5°	1036.9	929.5	818.9	723.2	635.7	548.1	161.8	113.9	90.8	72.6	61.1
40°	1274.6	1135.9	1000.5	870.1	756.2	647.2	155.2	107.3	84.2	66.0	54.5
42.5°	1532.2	1363.8	1185.5	1038.5	881.7	744.6	148.6	100.7	77.6	59.4	47.9
45°	1852.5	1642.8	1426.5	1226.7	1035.2	858.5	142.0	94.1	69.3	52.8	41.3
47.5°	2202.5	1935.0	1690.7	1439.7	1211.9	1000.5	133.7	89.2	62.7	46.2	36.3
50°	2562.4	2280.1	1971.4	1685.7	1414.9	1142.5	125.5	80.9	56.1	41.3	29.7
52.5°	2950.4	2616.9	2301.6	1946.6	1631.2	1329.1	117.2	74.3	51.2	36.3	24.8
55°	3444.1	3071.0	2701.1	2303.2	1923.5	1545.4	109.0	66.0	44.6	31.4	19.8
57.5°	4064.9	3622.4	3168.4	2719.3	2258.6	1829.4	102.4	57.8	38.0	26.4	16.5
60°	4651.0	4134.2	3584.4	3067.7	2547.6	2047.3	92.5	51.2	33.0	21.5	16.5
62.5°	4954.8	4365.4	3772.6	3203.0	2648.3	2124.9	82.6	42.9	28.1	18.2	14.9
65°	4880.5	4279.5	3705.0	3130.4	2587.2	2075.4	72.6	38.0	24.8	16.5	14.9
66°	4773.2	4178.8	3600.9	3054.4	2536.0	2022.5	67.7	36.3	23.1	16.5	13.2
67.5°	4538.7	3964.2	3412.7	2904.2	2395.7	1921.8	61.1	33.0	21.5	14.9	13.2
70°	3876.7	3354.9	2914.1	2461.7	2047.3	1619.7	49.5	28.1	18.2	13.2	13.2
72.5°	2565.7	2210.8	1916.9	1649.4	1378.6	1069.9	41.3	23.1	14.9	13.2	11.6
75°	967.5	875.1	751.2	675.3	589.4	516.8	33.0	14.9	11.6	11.6	11.6
77.5°	171.7	158.5	140.3	128.8	118.9	109.0	26.4	9.9	9.9	11.6	11.6
80°	115.6	107.3	97.4	89.2	82.6	74.3	18.2	8.3	9.9	9.9	11.6
82.5°	82.6	77.6	72.6	66.0	61.1	54.5	11.6	8.3	9.9	9.9	9.9
85°	49.5	46.2	42.9	39.6	34.7	33.0	8.3	8.3	8.3	9.9	9.9
87.5°	13.2	11.6	13.2	13.2	9.9	11.6	6.6	6.6	6.6	8.3	8.3
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: P150695

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

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	259.2	259.2	259.2	259.2	259.2
2.5°	219.6	219.6	216.3	221.2	221.2
5°	189.9	189.9	188.2	189.9	189.9
7.5°	173.4	171.7	171.7	171.7	173.4
10°	158.5	156.8	156.8	156.8	156.8
12.5°	145.3	143.6	142.0	143.6	143.6
15°	133.7	130.4	130.4	130.4	130.4
17.5°	123.8	120.5	118.9	118.9	118.9
20°	113.9	109.0	109.0	109.0	109.0
22.5°	104.0	99.1	99.1	99.1	99.1
25°	94.1	89.2	89.2	89.2	89.2
27.5°	85.9	80.9	80.9	80.9	80.9
30°	75.9	72.6	72.6	74.3	72.6
32.5°	69.3	64.4	64.4	66.0	66.0
35°	61.1	57.8	57.8	57.8	57.8
37.5°	52.8	49.5	49.5	49.5	49.5
40°	46.2	42.9	41.3	42.9	42.9
42.5°	39.6	36.3	34.7	34.7	34.7
45°	34.7	29.7	28.1	29.7	29.7
47.5°	28.1	24.8	24.8	26.4	26.4
50°	21.5	21.5	23.1	26.4	26.4
52.5°	19.8	19.8	23.1	26.4	26.4
55°	18.2	19.8	23.1	24.8	26.4
57.5°	16.5	19.8	23.1	24.8	24.8
60°	16.5	18.2	21.5	24.8	24.8
62.5°	14.9	16.5	19.8	23.1	23.1
65°	14.9	16.5	19.8	23.1	23.1
66°	14.9	16.5	19.8	23.1	23.1
67.5°	14.9	16.5	19.8	23.1	23.1
70°	14.9	16.5	19.8	21.5	21.5
72.5°	13.2	14.9	18.2	21.5	21.5
75°	13.2	14.9	18.2	21.5	21.5
77.5°	13.2	14.9	18.2	21.5	21.5
80°	13.2	14.9	18.2	19.8	21.5
82.5°	11.6	14.9	16.5	19.8	19.8
85°	11.6	13.2	16.5	18.2	19.8
87.5°	9.9	11.6	13.2	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)