

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: P150645

Luminaire Tested: **TLM-F01-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150645
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-F01-LED-E1-SL3-HSS
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431.3 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.34
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

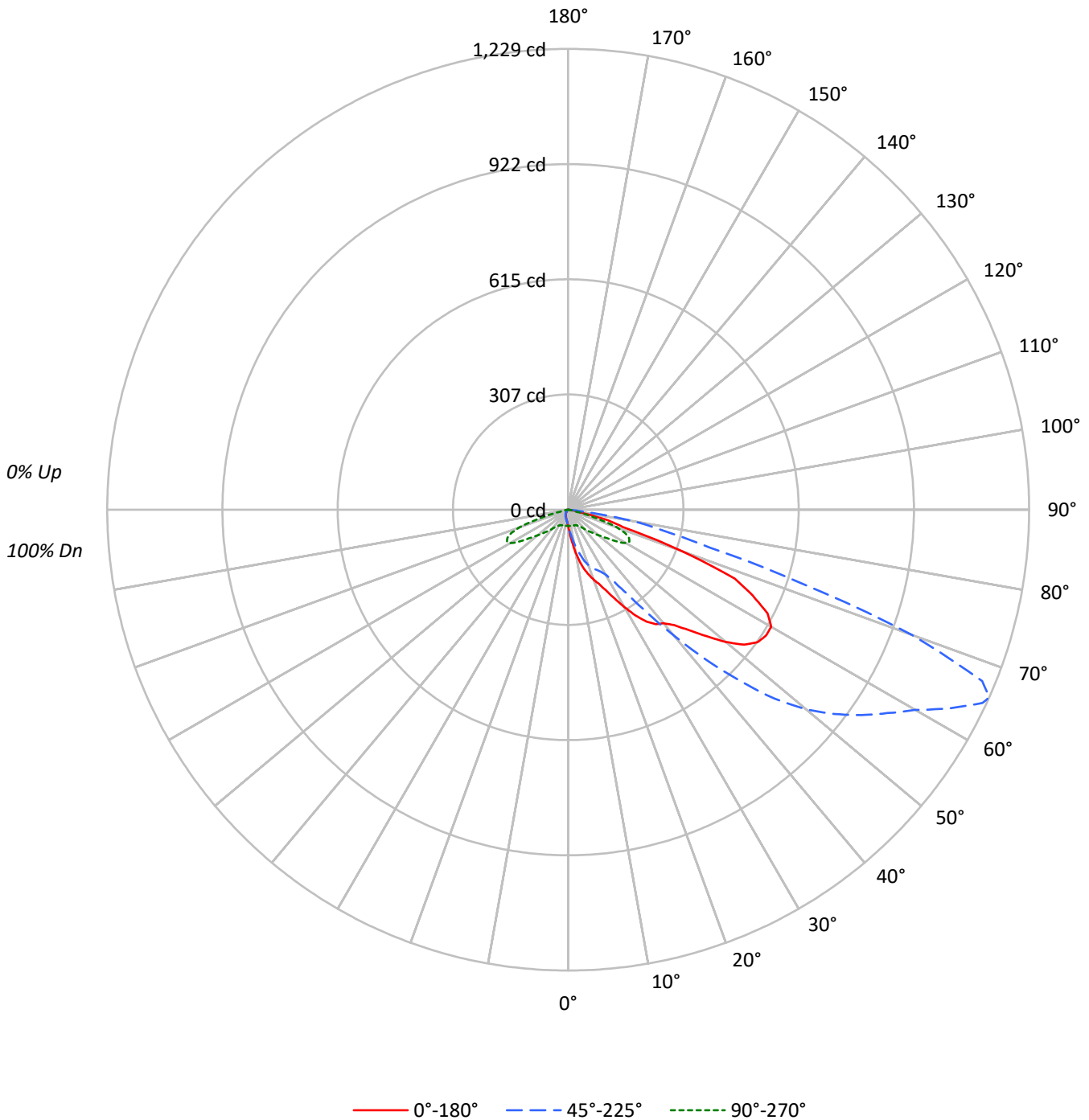
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2735	2735	2735
5°	4583	2755	2008
10°	7516	2781	1678
15°	10731	2894	1422
20°	13348	2992	1226
25°	16516	3172	1041
30°	21948	3550	885
35°	28159	4201	742
40°	32665	5530	595
45°	40554	7468	448
50°	54020	10407	433
55°	68044	15223	486
60°	79134	22579	519
65°	81338	26818	584
70°	59444	25751	666
75°	26788	11204	881
80°	4813	2808	1313
85°	436	2506	2397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.3
10°-20°	20.5	1.4
20°-30°	44.2	3.1
30°-40°	94.5	6.6
40°-50°	208.9	14.6
50°-60°	354.0	24.7
60°-70°	472.4	33.0
70°-80°	208.1	14.5
80°-90°	24.0	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°	69.6	4.9
0°-40°	164.0	11.5
0°-60°	726.9	50.8
0°-90°	1431.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	72	61	43	33	32	8
15°	164	125	44	23	22	47
25°	236	176	45	17	15	113
35°	364	273	54	12	10	226
45°	453	642	83	7	5	358
55°	616	955	138	3	4	543
65°	543	1219	179	2	4	518
75°	110	390	46	2	4	121
85°	1	8	3	2	3	3
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°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	54.5	54.2	53.1	53.1	51.5	50.4	49.0	47.6	47.6	47.3	47.1
5°	72.1	70.4	70.2	67.1	64.7	61.1	57.8	53.4	52.8	52.3	52.0
7.5°	91.6	91.4	88.9	85.3	80.4	73.7	67.1	60.0	58.9	58.3	57.2
10°	116.9	115.6	112.3	106.2	98.8	90.0	79.3	68.0	66.6	65.5	64.9
12.5°	141.2	138.7	136.8	129.1	119.7	106.8	93.8	77.6	76.5	75.1	72.9
15°	163.7	161.5	158.2	151.6	141.2	124.9	109.8	90.0	87.2	85.3	83.7
17.5°	181.3	180.0	176.1	168.7	157.4	143.1	124.9	102.6	100.4	98.0	94.9
20°	198.1	196.2	190.1	180.0	167.9	156.8	142.8	119.2	116.1	113.1	109.8
22.5°	214.1	212.2	202.3	185.5	172.5	167.9	162.9	137.9	133.2	130.7	127.4
25°	236.4	232.2	216.8	190.1	172.8	176.4	184.9	162.1	157.7	154.1	148.9
27.5°	266.4	260.9	236.7	197.0	173.9	185.7	210.2	191.5	186.8	182.7	176.9
30°	300.2	296.6	267.7	213.5	181.9	199.5	238.6	228.9	223.4	218.5	211.6
32.5°	334.3	329.4	300.8	244.9	203.4	226.2	274.1	272.4	265.3	260.6	253.2
35°	364.3	361.9	340.7	296.4	252.3	273.0	321.4	323.3	317.0	312.0	303.8
37.5°	384.7	384.7	380.6	351.7	330.2	345.6	391.0	391.3	385.0	373.7	369.6
40°	395.2	398.2	413.0	418.5	417.4	437.3	482.4	477.4	472.2	466.4	452.7
42.5°	416.6	419.4	451.0	489.0	513.8	539.9	571.0	569.3	563.0	552.6	539.9
45°	452.9	456.5	494.2	554.5	605.4	642.5	662.3	654.6	648.3	638.4	631.8
47.5°	499.2	506.0	548.7	623.3	684.6	746.0	766.6	746.3	740.8	733.1	722.3
50°	548.4	555.0	600.4	685.7	755.1	828.3	862.7	828.3	820.3	817.8	805.7
52.5°	591.1	596.6	640.3	733.9	809.0	894.9	945.0	899.5	893.8	885.5	876.7
55°	616.4	620.8	661.8	757.0	845.6	954.9	1024.5	984.6	976.0	972.7	960.1
57.5°	624.9	629.3	666.2	760.0	865.4	1009.6	1121.1	1122.4	1112.3	1100.4	1096.6
60°	624.9	629.9	661.0	752.6	884.7	1068.0	1249.8	1364.6	1342.6	1340.4	1326.3
62.5°	599.1	603.7	635.1	729.8	910.6	1146.7	1429.3	1631.8	1625.5	1611.1	1588.0
65°	542.9	545.7	576.5	671.4	900.6	1219.0	1584.7	1809.6	1799.4	1771.3	1741.6
66°	517.6	519.8	548.7	638.1	868.2	1228.9	1612.3	1831.8	1815.1	1791.4	1757.8
67.5°	481.0	484.9	505.2	576.2	790.3	1194.5	1594.9	1816.2	1801.6	1773.0	1739.4
70°	321.1	318.4	390.2	442.2	602.1	973.3	1430.9	1630.7	1631.0	1617.5	1604.0
72.5°	152.4	154.1	175.0	272.1	394.1	650.2	1138.9	1301.6	1320.3	1296.1	1279.3
75°	109.5	112.0	124.7	166.5	235.0	390.2	738.3	910.3	910.8	867.9	829.7
77.5°	31.9	33.3	46.8	102.6	176.1	263.3	424.0	506.0	494.2	463.4	434.5
80°	13.2	13.2	13.8	32.7	70.7	178.9	296.6	389.6	388.3	376.4	359.4
82.5°	5.0	5.2	6.6	13.5	16.8	44.0	197.9	338.2	337.4	320.6	308.5
85°	0.6	0.6	1.7	5.8	6.3	8.3	39.6	149.1	148.3	149.1	130.7
87.5°	0.0	0.0	0.3	0.6	0.8	1.1	1.7	5.8	6.3	6.1	5.5
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	47.1	46.5	46.5	46.2	46.2	46.2	46.0	45.7	45.7	45.4	45.1
5°	51.5	50.9	50.6	50.1	49.8	49.5	49.0	48.7	48.2	47.9	47.6
7.5°	56.7	55.6	55.3	54.5	53.7	53.1	52.6	51.7	51.2	50.1	49.8
10°	63.3	61.9	60.8	59.7	58.9	57.5	56.7	55.6	54.5	53.7	52.8
12.5°	71.8	69.9	68.2	67.1	65.2	63.6	61.9	61.1	58.9	57.8	56.4
15°	81.2	79.0	77.0	74.8	73.5	70.7	68.5	66.0	64.9	63.0	60.8
17.5°	93.3	89.7	86.7	84.5	81.7	79.0	76.5	74.0	70.7	68.5	65.8
20°	106.2	103.2	99.1	95.2	91.9	88.6	85.0	81.7	78.7	75.1	71.8
22.5°	122.7	118.3	113.4	109.5	105.1	101.5	96.6	92.2	87.2	82.6	78.7
25°	143.6	137.9	133.2	127.7	122.5	116.9	110.9	105.4	99.1	94.7	88.1
27.5°	169.5	164.0	157.7	150.5	145.3	137.0	129.1	122.2	114.7	107.9	100.4
30°	202.5	194.5	187.9	181.1	170.6	162.6	153.3	143.9	133.7	126.9	115.6
32.5°	242.2	233.6	223.7	213.8	204.2	192.9	181.3	169.8	158.5	145.8	134.3
35°	290.6	280.4	269.1	258.4	243.5	231.4	216.8	200.9	188.2	173.6	159.1
37.5°	354.7	337.9	328.0	316.7	296.6	280.1	263.9	247.9	225.6	210.2	189.6
40°	435.1	425.1	408.9	390.7	372.6	350.8	328.8	307.6	281.8	260.3	236.4
42.5°	529.4	514.9	498.3	472.2	453.8	428.2	403.1	375.1	343.4	315.9	287.8
45°	618.0	600.7	588.0	561.9	542.6	512.4	482.1	452.4	415.8	380.3	347.8
47.5°	713.8	699.5	678.6	657.4	637.9	603.7	571.0	534.9	496.4	454.3	412.2
50°	798.0	786.7	772.4	746.8	725.1	696.5	657.9	618.6	569.9	528.1	480.2
52.5°	869.6	860.7	840.7	822.5	803.0	776.0	741.6	703.9	651.3	605.4	550.9
55°	954.0	947.7	930.1	918.8	901.5	875.6	843.4	808.5	752.9	702.8	641.2
57.5°	1092.4	1087.5	1072.1	1067.4	1050.3	1027.8	988.2	950.7	885.8	823.6	753.2
60°	1321.7	1311.8	1289.2	1277.6	1241.6	1211.3	1159.9	1108.4	1030.0	950.7	866.0
62.5°	1567.1	1539.3	1496.4	1459.5	1408.3	1355.8	1287.0	1208.3	1116.4	1022.3	924.9
65°	1699.5	1652.2	1597.9	1539.3	1473.0	1395.7	1309.0	1214.6	1115.8	1016.5	913.6
66°	1714.6	1661.2	1603.7	1538.5	1464.8	1382.5	1294.4	1195.4	1092.7	995.9	892.9
67.5°	1695.6	1639.8	1579.0	1506.6	1426.8	1341.5	1249.0	1146.1	1047.3	949.1	848.9
70°	1562.7	1507.1	1452.9	1376.7	1291.7	1205.8	1118.3	1003.3	909.7	819.5	730.3
72.5°	1247.9	1210.2	1156.6	1091.3	1008.5	907.8	834.9	732.0	650.8	563.3	494.2
75°	779.8	726.7	660.4	577.3	514.0	432.3	389.6	311.5	265.3	224.8	185.7
77.5°	398.7	358.8	312.3	265.5	220.7	176.1	136.2	96.3	64.9	45.1	33.6
80°	329.4	294.2	255.6	213.0	173.4	134.6	96.9	66.0	42.1	27.5	21.5
82.5°	272.1	242.4	208.0	168.4	134.0	105.7	73.5	47.9	29.7	19.3	15.1
85°	115.8	105.1	81.2	64.4	48.4	35.8	25.0	16.8	11.8	9.6	8.8
87.5°	5.0	5.5	5.2	4.1	3.0	3.0	2.8	2.2	2.2	2.2	2.2
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°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	45.1	44.9	44.6	44.6	44.3	44.0	42.4	41.0	39.4	38.2	37.1
5°	47.1	46.8	46.2	46.0	45.4	45.1	41.6	38.5	36.0	34.1	32.7
7.5°	49.0	48.7	47.9	47.1	46.8	46.2	40.5	36.6	33.3	31.1	29.7
10°	51.5	50.6	49.8	48.7	47.9	47.1	39.4	34.4	30.8	28.9	27.5
12.5°	55.0	53.7	52.3	50.9	49.8	48.4	38.8	32.5	28.9	26.7	25.3
15°	59.2	57.2	55.6	53.9	52.0	50.6	37.7	30.8	27.2	25.0	23.4
17.5°	63.0	60.8	58.3	55.9	53.9	52.0	36.6	29.2	25.6	23.4	21.7
20°	68.5	65.2	62.2	59.2	56.4	53.9	34.9	27.5	24.2	21.7	20.1
22.5°	74.6	70.7	66.9	62.7	59.2	55.9	33.6	26.1	22.8	20.4	18.4
25°	82.3	77.6	72.4	67.1	63.0	58.6	32.2	24.8	21.5	19.0	17.1
27.5°	93.0	86.4	80.6	74.0	67.7	62.7	31.1	23.7	20.1	17.6	15.7
30°	107.6	98.0	88.9	81.7	74.3	67.1	30.0	22.3	19.0	16.2	14.0
32.5°	123.8	112.5	102.1	91.4	82.0	73.7	28.9	21.2	17.6	14.9	12.9
35°	143.9	129.6	115.6	103.2	91.9	80.9	27.8	20.1	16.5	13.5	11.6
37.5°	172.8	154.9	136.5	120.5	105.9	91.4	27.0	19.0	15.1	12.1	10.2
40°	212.4	189.3	166.8	145.0	126.0	107.9	25.9	17.9	14.0	11.0	9.1
42.5°	255.4	227.3	197.6	173.1	146.9	124.1	24.8	16.8	12.9	9.9	8.0
45°	308.7	273.8	237.8	204.5	172.5	143.1	23.7	15.7	11.6	8.8	6.9
47.5°	367.1	322.5	281.8	240.0	202.0	166.8	22.3	14.9	10.5	7.7	6.1
50°	427.1	380.0	328.6	281.0	235.8	190.4	20.9	13.5	9.4	6.9	5.0
52.5°	491.7	436.2	383.6	324.4	271.9	221.5	19.5	12.4	8.5	6.1	4.1
55°	574.0	511.8	450.2	383.9	320.6	257.6	18.2	11.0	7.4	5.2	3.3
57.5°	677.5	603.7	528.1	453.2	376.4	304.9	17.1	9.6	6.3	4.4	2.8
60°	775.2	689.0	597.4	511.3	424.6	341.2	15.4	8.5	5.5	3.6	2.8
62.5°	825.8	727.6	628.8	533.8	441.4	354.2	13.8	7.2	4.7	3.0	2.5
65°	813.4	713.3	617.5	521.7	431.2	345.9	12.1	6.3	4.1	2.8	2.5
66°	795.5	696.5	600.2	509.1	422.7	337.1	11.3	6.1	3.9	2.8	2.2
67.5°	756.5	660.7	568.8	484.0	399.3	320.3	10.2	5.5	3.6	2.5	2.2
70°	646.1	559.2	485.7	410.3	341.2	269.9	8.3	4.7	3.0	2.2	2.2
72.5°	427.6	368.5	319.5	274.9	229.8	178.3	6.9	3.9	2.5	2.2	1.9
75°	161.3	145.8	125.2	112.5	98.2	86.1	5.5	2.5	1.9	1.9	1.9
77.5°	28.6	26.4	23.4	21.5	19.8	18.2	4.4	1.7	1.7	1.9	1.9
80°	19.3	17.9	16.2	14.9	13.8	12.4	3.0	1.4	1.7	1.7	1.9
82.5°	13.8	12.9	12.1	11.0	10.2	9.1	1.9	1.4	1.7	1.7	1.7
85°	8.3	7.7	7.2	6.6	5.8	5.5	1.4	1.4	1.4	1.7	1.7
87.5°	2.2	1.9	2.2	2.2	1.7	1.9	1.1	1.1	1.1	1.4	1.4
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: P150645

CATALOG NUMBER: TLM-F01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	43.2	43.2	43.2	43.2	43.2
2.5°	36.6	36.6	36.0	36.9	36.9
5°	31.6	31.6	31.4	31.6	31.6
7.5°	28.9	28.6	28.6	28.6	28.9
10°	26.4	26.1	26.1	26.1	26.1
12.5°	24.2	23.9	23.7	23.9	23.9
15°	22.3	21.7	21.7	21.7	21.7
17.5°	20.6	20.1	19.8	19.8	19.8
20°	19.0	18.2	18.2	18.2	18.2
22.5°	17.3	16.5	16.5	16.5	16.5
25°	15.7	14.9	14.9	14.9	14.9
27.5°	14.3	13.5	13.5	13.5	13.5
30°	12.7	12.1	12.1	12.4	12.1
32.5°	11.6	10.7	10.7	11.0	11.0
35°	10.2	9.6	9.6	9.6	9.6
37.5°	8.8	8.3	8.3	8.3	8.3
40°	7.7	7.2	6.9	7.2	7.2
42.5°	6.6	6.1	5.8	5.8	5.8
45°	5.8	5.0	4.7	5.0	5.0
47.5°	4.7	4.1	4.1	4.4	4.4
50°	3.6	3.6	3.9	4.4	4.4
52.5°	3.3	3.3	3.9	4.4	4.4
55°	3.0	3.3	3.9	4.1	4.4
57.5°	2.8	3.3	3.9	4.1	4.1
60°	2.8	3.0	3.6	4.1	4.1
62.5°	2.5	2.8	3.3	3.9	3.9
65°	2.5	2.8	3.3	3.9	3.9
66°	2.5	2.8	3.3	3.9	3.9
67.5°	2.5	2.8	3.3	3.9	3.9
70°	2.5	2.8	3.3	3.6	3.6
72.5°	2.2	2.5	3.0	3.6	3.6
75°	2.2	2.5	3.0	3.6	3.6
77.5°	2.2	2.5	3.0	3.6	3.6
80°	2.2	2.5	3.0	3.3	3.6
82.5°	1.9	2.5	2.8	3.3	3.3
85°	1.9	2.2	2.8	3.0	3.3
87.5°	1.7	1.9	2.2	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)