

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: P155575

Luminaire Tested: **TLM-F01-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155575
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
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-T3
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

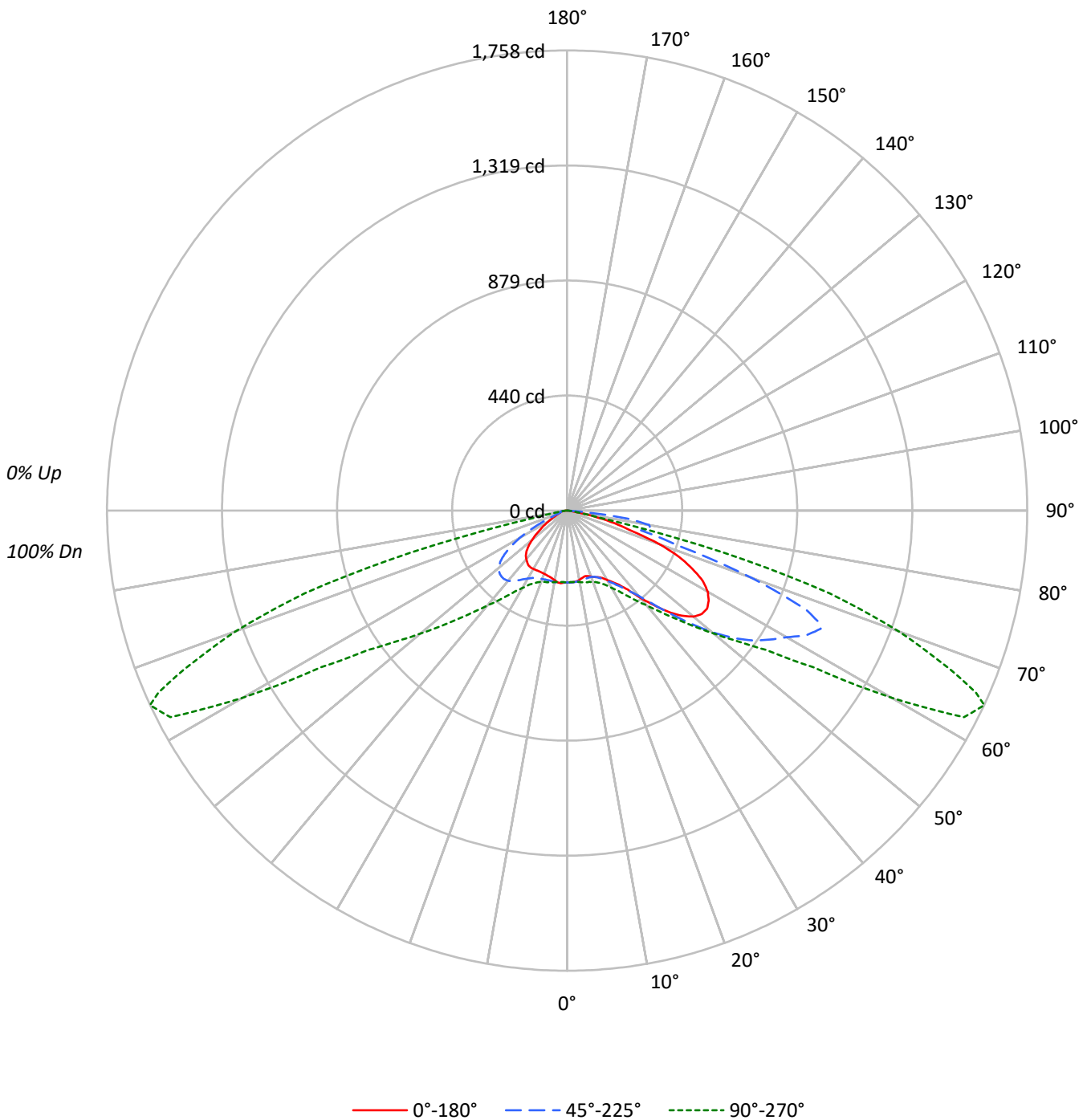
Lumens per Lamp: N/A
Luminaire Lumens: 2545.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): 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	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17368	17368	17368
5°	17434	17422	17701
10°	17282	17816	17392
15°	17030	18597	17135
20°	18078	19527	17297
25°	19610	21413	17843
30°	22350	24909	18848
35°	26799	30547	19826
40°	35889	39096	20060
45°	49034	52061	19637
50°	62048	71888	17268
55°	72085	102343	13733
60°	78539	180998	10422
65°	79285	263445	7881
70°	69478	249514	6572
75°	45919	150991	6728
80°	16773	15351	7912
85°	2833	10171	8790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.0
10°-20°	77.5	3.0
20°-30°	133.3	5.2
30°-40°	216.4	8.5
40°-50°	361.3	14.2
50°-60°	568.9	22.3
60°-70°	775.8	30.5
70°-80°	335.8	13.2
80°-90°	50.5	2.0
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°	237.1	9.3
0°-40°	453.5	17.8
0°-60°	1383.7	54.4
0°-90°	2545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	274	274	274	274	274	
5°	274	275	274	277	278	26
15°	260	270	284	276	261	75
25°	281	282	306	284	255	131
35°	347	354	395	325	256	225
45°	548	555	581	356	219	421
55°	653	865	927	293	124	576
65°	529	1069	1758	103	53	514
75°	188	292	617	28	28	201
85°	4	65	14	19	12	10
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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	275.5	276.6	275.5	275.7	276.0	275.7	275.5	275.5	274.6	275.2	275.7
5°	274.3	275.2	274.9	275.2	275.5	275.2	274.9	275.2	274.6	274.9	275.7
7.5°	273.0	272.7	273.0	273.5	274.1	274.1	274.1	274.3	274.1	274.1	274.9
10°	268.8	269.1	269.7	270.5	270.8	271.6	271.6	272.4	272.7	273.2	274.3
12.5°	263.6	263.9	264.4	265.0	266.4	267.7	267.7	269.7	270.5	271.9	273.8
15°	259.8	260.0	260.6	261.1	262.2	263.6	264.4	266.6	268.0	270.5	273.2
17.5°	262.0	261.7	262.2	262.5	262.5	263.6	263.6	265.3	266.9	269.1	272.7
20°	268.3	268.3	268.8	268.8	268.6	269.1	268.0	268.0	268.3	269.4	271.9
22.5°	274.6	274.3	275.5	276.0	276.3	277.1	276.0	275.7	274.3	273.5	274.3
25°	280.7	280.4	281.8	282.6	284.0	284.8	284.8	284.8	283.7	282.3	281.5
27.5°	290.0	290.0	291.4	292.2	293.3	295.0	295.8	295.8	296.1	294.2	292.8
30°	305.7	306.0	306.3	307.4	308.5	309.0	310.1	310.9	311.8	310.7	308.5
32.5°	324.4	322.8	322.8	324.4	325.8	327.5	328.0	329.1	330.8	329.9	329.7
35°	346.7	346.2	345.6	346.2	347.8	349.7	351.9	353.9	352.8	354.4	353.6
37.5°	379.7	380.3	380.6	380.6	380.3	380.8	381.9	383.9	383.3	383.9	385.0
40°	434.2	432.3	430.4	430.6	427.9	428.4	424.0	426.0	426.2	424.3	425.1
42.5°	488.7	489.8	490.6	492.8	490.9	489.8	485.7	485.7	483.5	481.6	481.0
45°	547.6	549.8	550.1	554.5	552.8	556.4	559.4	558.6	555.0	554.8	550.9
47.5°	594.7	598.2	602.1	607.3	611.4	619.4	628.8	633.5	636.2	638.4	634.0
50°	629.9	631.5	641.4	649.7	658.8	672.0	684.9	701.7	715.2	721.5	727.6
52.5°	648.9	653.0	663.7	676.7	692.6	712.4	733.3	760.0	783.1	798.6	812.3
55°	653.0	657.1	669.2	685.7	707.5	734.2	764.2	800.5	835.2	864.9	893.8
57.5°	641.4	646.1	659.0	678.0	703.6	736.1	773.8	821.4	869.3	917.4	960.1
60°	620.2	626.0	637.9	656.6	684.9	721.5	766.6	826.4	893.5	967.2	1049.0
62.5°	585.3	591.4	602.4	623.0	652.2	692.6	744.9	819.2	914.1	1030.3	1175.3
65°	529.2	531.9	545.4	566.3	592.2	636.8	694.3	784.0	907.5	1069.1	1268.8
66°	503.8	508.5	516.8	533.6	558.3	600.2	657.9	749.0	882.5	1055.6	1266.4
67.5°	464.2	467.8	473.3	484.6	499.7	530.5	585.3	671.4	806.0	987.3	1213.8
70°	375.3	377.0	384.4	388.3	393.5	403.7	423.5	473.0	577.9	748.2	979.6
72.5°	255.9	260.6	268.6	279.6	293.9	307.6	317.0	323.3	345.9	446.3	652.7
75°	187.7	192.6	202.8	217.4	242.4	271.0	300.8	314.5	305.2	292.2	363.5
77.5°	109.0	115.6	124.1	138.1	161.3	199.2	250.1	295.3	325.8	327.7	311.2
80°	46.0	46.8	52.0	59.2	73.5	100.2	139.8	204.7	272.4	318.1	328.8
82.5°	10.5	12.9	16.5	19.5	23.9	33.0	49.0	81.5	147.2	230.9	301.0
85°	3.9	3.9	5.2	7.7	8.8	9.9	12.9	20.6	35.2	64.9	135.4
87.5°	0.0	0.3	0.6	0.6	1.1	1.4	2.2	3.0	2.8	2.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	275.2	274.9	274.3	274.3	274.3	274.3	273.8	274.1	273.5	273.8	273.8
5°	274.9	274.9	274.6	274.1	274.3	274.3	274.6	274.1	274.1	274.3	274.1
7.5°	274.9	274.6	274.6	274.6	274.9	274.6	274.9	274.9	274.9	275.2	275.2
10°	274.9	274.9	275.5	275.7	275.7	276.0	276.8	276.8	277.1	277.4	277.9
12.5°	275.2	276.3	277.1	277.9	278.2	278.8	280.1	280.1	280.7	281.5	281.8
15°	275.5	277.1	278.8	279.3	279.9	281.0	282.3	282.9	283.7	284.5	285.1
17.5°	275.2	277.4	279.3	280.1	281.0	282.3	284.0	284.5	285.6	286.7	287.8
20°	274.9	277.9	281.0	282.1	283.2	285.1	287.3	288.7	289.8	291.4	292.5
22.5°	276.6	280.1	284.3	285.9	287.8	290.3	293.3	295.0	296.4	298.0	298.8
25°	281.8	284.5	289.5	292.2	294.7	298.8	303.0	304.9	306.5	307.9	308.2
27.5°	290.6	291.4	297.5	301.0	304.6	311.2	316.2	317.6	320.6	321.7	321.4
30°	304.9	303.5	308.5	314.0	319.2	328.3	334.3	337.9	340.7	340.7	338.5
32.5°	325.5	323.3	324.7	331.0	337.1	350.3	357.5	362.1	364.1	363.5	358.8
35°	352.5	351.1	350.3	355.3	364.9	380.3	389.6	392.1	395.2	394.6	388.5
37.5°	384.4	383.3	383.3	389.1	398.5	421.3	431.5	433.1	432.9	428.4	417.2
40°	422.1	421.6	419.1	422.4	430.4	460.1	473.9	476.1	473.0	465.9	452.7
42.5°	476.3	473.0	465.3	467.2	473.3	502.2	520.1	526.1	523.1	516.0	494.5
45°	547.0	543.5	530.5	528.9	532.2	557.5	580.6	582.0	581.4	572.4	547.0
47.5°	630.2	624.6	610.9	606.5	605.4	628.8	651.1	653.3	651.9	638.4	604.6
50°	720.1	712.2	703.1	700.0	695.6	712.4	735.0	735.3	729.8	711.1	679.4
52.5°	816.2	813.4	811.8	808.7	806.8	821.4	835.2	826.9	818.6	799.1	771.6
55°	913.0	924.3	935.9	937.0	940.3	956.0	955.7	933.1	927.1	916.3	889.1
57.5°	1015.9	1057.8	1094.1	1105.4	1116.4	1145.6	1142.8	1120.5	1112.8	1099.6	1077.0
60°	1156.0	1268.8	1373.7	1398.7	1416.1	1451.0	1447.7	1413.3	1429.3	1428.2	1399.0
62.5°	1352.2	1539.9	1697.0	1735.5	1747.6	1751.5	1730.6	1693.4	1709.1	1726.7	1637.0
65°	1485.1	1705.8	1867.1	1896.8	1898.4	1852.5	1806.0	1762.2	1758.4	1743.2	1615.0
66°	1488.1	1714.1	1875.9	1904.8	1894.6	1831.8	1773.0	1728.9	1709.9	1676.6	1543.7
67.5°	1434.8	1662.6	1836.8	1867.3	1845.0	1756.2	1675.0	1618.3	1581.2	1527.2	1410.0
70°	1205.0	1430.9	1645.5	1702.5	1709.7	1577.0	1464.5	1397.9	1347.8	1273.8	1172.8
72.5°	896.0	1100.1	1289.5	1344.0	1371.7	1265.8	1170.9	1120.2	1051.7	973.8	902.0
75°	561.6	705.8	832.7	870.9	844.8	762.8	705.8	684.6	617.2	570.7	538.0
77.5°	321.1	366.3	376.4	361.9	331.0	253.4	180.2	133.5	115.8	128.2	141.4
80°	313.4	287.3	228.9	201.4	182.4	125.5	73.7	50.6	42.1	43.2	46.8
82.5°	339.6	364.3	299.9	244.6	205.3	138.7	76.5	40.7	27.5	32.5	36.6
85°	220.7	307.1	276.6	233.1	188.8	118.6	63.0	21.2	14.0	18.4	25.3
87.5°	22.3	24.5	20.9	28.3	21.2	9.9	5.0	3.0	2.8	3.3	5.0
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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	274.1	274.1	274.3	274.6	274.9	275.2	275.2	275.2	275.2	275.7	275.5
5°	274.6	275.2	275.7	276.0	276.6	276.6	277.4	277.1	277.1	277.9	278.2
7.5°	275.7	276.6	277.7	277.4	278.5	278.2	278.8	278.8	277.9	278.2	277.7
10°	278.2	279.3	279.9	279.0	279.3	278.2	277.9	276.6	274.9	274.1	273.0
12.5°	282.3	283.4	283.4	282.1	280.4	277.9	276.0	273.0	270.5	269.1	267.7
15°	285.9	287.0	286.7	284.5	282.1	278.2	275.5	271.9	268.3	266.1	264.7
17.5°	288.7	289.2	288.4	285.4	282.6	279.0	276.3	272.4	268.3	265.5	263.1
20°	292.8	292.2	290.3	286.5	283.4	280.1	277.9	274.6	269.9	266.4	262.8
22.5°	298.8	296.6	293.1	288.9	285.9	282.9	280.7	277.1	272.4	268.0	263.9
25°	306.8	302.4	297.5	293.1	290.3	287.0	284.5	280.7	275.7	270.8	265.8
27.5°	318.4	310.7	304.3	300.5	297.5	293.3	290.3	285.4	280.1	274.3	268.8
30°	331.3	320.9	314.8	311.8	308.5	304.1	299.4	293.1	287.0	280.7	274.1
32.5°	348.1	335.4	329.7	326.6	322.2	316.7	311.2	304.1	295.5	287.3	279.3
35°	370.1	357.2	351.1	346.4	340.4	333.2	325.3	315.6	304.1	293.1	282.9
37.5°	393.8	379.7	374.0	369.0	359.9	350.6	339.3	325.3	309.6	295.0	282.3
40°	423.8	410.8	403.4	394.9	384.1	367.9	350.3	329.9	309.8	292.0	277.1
42.5°	461.7	448.8	437.8	424.3	405.6	380.6	355.5	329.1	304.9	284.5	268.6
45°	512.1	496.4	477.4	453.8	423.5	388.5	355.8	323.9	295.5	273.0	255.9
47.5°	573.7	549.8	518.7	478.8	435.3	390.7	351.4	313.4	281.0	256.5	237.5
50°	646.9	609.2	558.1	499.4	441.4	387.4	340.4	297.7	260.3	234.2	211.6
52.5°	730.6	669.0	593.6	514.3	441.1	376.4	321.7	274.1	233.3	204.2	182.7
55°	828.8	737.2	630.2	525.3	433.4	356.1	293.1	240.8	200.1	173.1	153.3
57.5°	972.7	847.8	694.0	542.4	418.0	324.7	254.3	200.9	165.1	139.5	122.7
60°	1235.8	1032.5	809.0	576.8	394.3	278.8	208.9	158.2	128.2	107.6	96.3
62.5°	1433.9	1175.3	871.2	569.1	346.7	222.1	154.9	115.3	94.4	80.4	73.2
65°	1405.6	1131.0	804.9	490.1	271.9	156.6	102.9	78.4	64.9	58.3	54.2
66°	1341.5	1073.2	747.4	441.1	235.0	130.2	84.8	65.8	55.9	51.2	48.4
67.5°	1219.9	965.9	644.5	361.6	180.5	94.4	63.8	52.0	45.4	43.5	41.6
70°	1014.0	770.2	452.4	210.5	92.2	52.6	40.5	36.3	34.7	34.4	33.8
72.5°	777.1	545.1	266.4	99.6	47.9	34.9	31.4	30.0	29.4	29.4	29.7
75°	476.3	306.3	117.8	48.7	33.6	29.4	27.8	27.2	27.0	27.2	27.0
77.5°	159.1	97.4	50.4	36.9	30.5	27.2	26.1	25.6	25.6	25.6	25.6
80°	48.7	42.4	38.5	34.1	28.9	25.9	24.2	23.9	24.2	24.5	23.7
82.5°	36.6	34.7	32.5	30.3	26.1	23.1	22.6	22.6	22.6	21.7	20.6
85°	27.0	26.7	22.0	20.6	19.3	19.3	19.3	19.3	18.4	17.1	16.0
87.5°	5.0	4.7	5.0	5.2	7.7	8.3	8.3	8.8	9.6	9.1	9.1
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: P155575

CATALOG NUMBER: TLM-F01-LED-E1-T3

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	274.3	274.3	274.3	274.3	274.3
2.5°	275.5	275.2	276.0	275.5	275.7
5°	277.9	277.7	278.2	277.7	278.5
7.5°	277.1	276.6	276.3	276.6	276.8
10°	271.3	270.8	270.5	270.2	270.5
12.5°	266.4	265.3	265.3	264.7	265.0
15°	262.8	262.0	261.7	261.1	261.4
17.5°	261.1	259.8	259.2	258.7	258.7
20°	260.0	258.4	257.6	257.0	256.7
22.5°	260.0	257.6	256.5	255.9	255.6
25°	261.1	258.1	256.5	255.6	255.4
27.5°	263.3	259.5	257.6	256.5	256.5
30°	267.2	262.2	259.5	258.1	257.8
32.5°	271.0	264.4	260.6	258.9	258.4
35°	273.0	264.4	259.8	257.0	256.5
37.5°	270.8	260.9	255.1	251.0	250.1
40°	263.9	253.4	247.1	243.3	242.7
42.5°	254.8	244.6	237.2	234.4	233.6
45°	242.4	230.3	222.9	219.0	219.3
47.5°	221.2	208.9	202.3	198.7	199.2
50°	196.2	184.1	178.3	174.5	175.3
52.5°	168.7	157.7	152.2	150.2	149.7
55°	139.8	131.3	127.4	125.2	124.4
57.5°	113.4	107.3	104.6	101.8	102.1
60°	89.4	86.4	85.6	82.6	82.3
62.5°	70.4	68.5	67.7	65.5	65.8
65°	53.4	52.8	53.4	52.0	52.6
66°	48.2	48.4	48.4	47.6	48.2
67.5°	41.6	42.1	42.9	42.1	42.7
70°	34.4	34.9	35.5	35.5	35.5
72.5°	30.0	30.5	30.8	30.8	30.8
75°	27.5	27.8	28.1	27.5	27.5
77.5°	25.9	25.9	25.3	25.0	24.8
80°	23.4	23.1	22.3	21.7	21.7
82.5°	19.5	19.0	18.4	17.6	17.6
85°	14.9	14.3	13.8	12.7	12.1
87.5°	7.7	8.0	7.7	6.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

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