

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: P150639

Luminaire Tested: **TLM-E01-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150639  
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-E01-LED-E1-SL3-HSS-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1583.6 lumens  
Efficiency: N/A  
Efficacy: 64.1 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

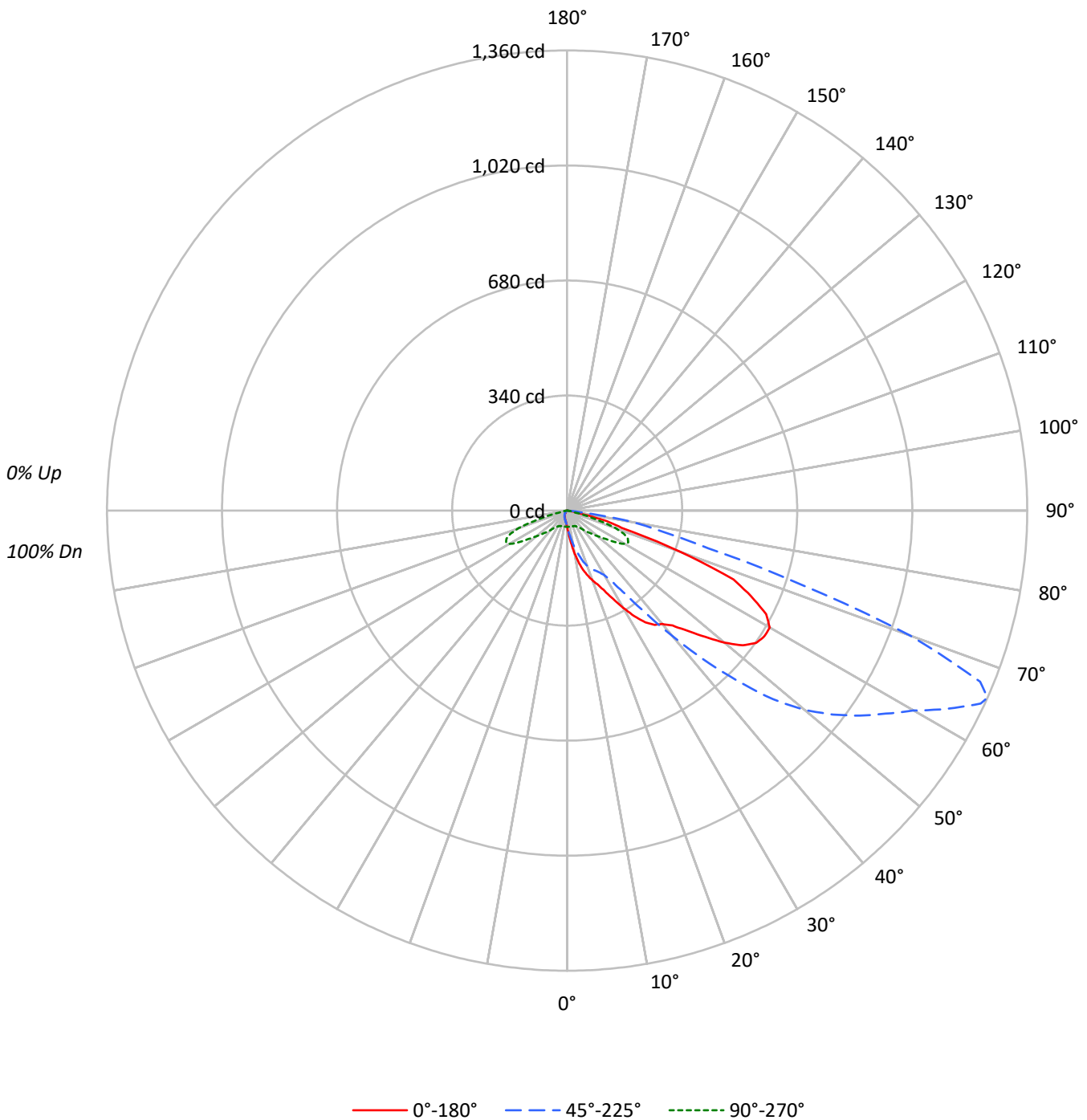
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P150639

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-7030

### 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°	3027	3027	3027
5°	5072	3048	2225
10°	8320	3073	1858
15°	11871	3202	1580
20°	14770	3315	1354
25°	18269	3507	1146
30°	24288	3930	980
35°	31158	4645	827
40°	36137	6112	653
45°	44870	8260	492
50°	59772	11515	483
55°	75286	16840	541
60°	87555	24979	583
65°	89998	29672	644
70°	65776	28491	741
75°	29650	12403	979
80°	5324	3099	1459
85°	436	2761	2688



TEST NUMBER: P150639

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-7030

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.4	0.3
10°-20°	22.7	1.4
20°-30°	48.9	3.1
30°-40°	104.5	6.6
40°-50°	231.1	14.6
50°-60°	391.7	24.7
60°-70°	522.6	33.0
70°-80°	230.2	14.5
80°-90°	26.5	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°	77.0	4.9
0°-40°	181.5	11.5
0°-60°	804.2	50.8
0°-90°	1583.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	80	68	48	36	35	9
15°	181	138	49	26	24	52
25°	262	195	50	19	16	125
35°	403	302	60	13	11	250
45°	501	711	92	8	6	396
55°	682	1056	153	4	5	601
65°	601	1349	198	3	4	573
75°	121	432	51	2	4	134
85°	1	9	4	2	4	4
90°	0	0	0	0	0	



TEST NUMBER: P150639

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	60.3	60.0	58.8	58.8	56.9	55.7	54.2	52.7	52.7	52.4	52.1
5°	79.8	77.9	77.6	74.3	71.5	67.6	63.9	59.1	58.5	57.8	57.5
7.5°	101.4	101.1	98.3	94.4	88.9	81.6	74.3	66.4	65.2	64.5	63.3
10°	129.4	127.9	124.2	117.5	109.3	99.6	87.7	75.2	73.7	72.5	71.9
12.5°	156.2	153.4	151.3	142.8	132.4	118.1	103.8	85.9	84.6	83.1	80.7
15°	181.1	178.7	175.1	167.8	156.2	138.2	121.5	99.6	96.5	94.4	92.6
17.5°	200.6	199.1	194.8	186.6	174.1	158.3	138.2	113.6	111.1	108.4	105.0
20°	219.2	217.1	210.4	199.1	185.7	173.5	158.0	131.8	128.5	125.1	121.5
22.5°	236.9	234.7	223.8	205.2	190.9	185.7	180.2	152.5	147.4	144.6	141.0
25°	261.5	257.0	239.9	210.4	191.2	195.2	204.6	179.3	174.4	170.5	164.7
27.5°	294.7	288.6	261.8	218.0	192.4	205.5	232.6	211.9	206.7	202.2	195.8
30°	332.2	328.2	296.2	236.3	201.2	220.7	264.0	253.3	247.2	241.7	234.1
32.5°	369.9	364.4	332.8	271.0	225.0	250.3	303.2	301.4	293.5	288.3	280.1
35°	403.1	400.4	376.9	327.9	279.2	302.0	355.6	357.7	350.7	345.2	336.1
37.5°	425.6	425.6	421.1	389.1	365.3	382.4	432.6	432.9	425.9	413.4	408.9
40°	437.2	440.5	457.0	463.1	461.9	483.8	533.7	528.2	522.4	516.0	500.8
42.5°	460.9	464.0	499.0	541.0	568.4	597.3	631.7	629.9	622.9	611.3	597.3
45°	501.1	505.1	546.8	613.5	669.8	710.9	732.8	724.3	717.3	706.3	699.0
47.5°	552.3	559.9	607.1	689.6	757.5	825.4	848.2	825.7	819.6	811.1	799.2
50°	606.8	614.1	664.3	758.7	835.4	916.4	954.5	916.4	907.6	904.8	891.4
52.5°	654.0	660.0	708.5	812.0	895.1	990.1	1045.5	995.2	988.9	979.7	970.0
55°	682.0	686.8	732.2	837.5	935.6	1056.4	1133.5	1089.3	1079.9	1076.2	1062.2
57.5°	691.4	696.3	737.1	840.9	957.5	1117.0	1240.3	1241.9	1230.6	1217.5	1213.2
60°	691.4	696.9	731.3	832.7	978.8	1181.6	1382.8	1509.8	1485.4	1483.0	1467.4
62.5°	662.8	668.0	702.7	807.4	1007.4	1268.6	1581.3	1805.4	1798.4	1782.6	1757.0
65°	600.7	603.7	637.8	742.9	996.5	1348.7	1753.3	2002.1	1990.8	1959.7	1926.9
66°	572.7	575.1	607.1	706.0	960.5	1359.7	1783.8	2026.7	2008.2	1982.0	1944.8
67.5°	532.2	536.4	559.0	637.5	874.4	1321.6	1764.6	2009.4	1993.2	1961.6	1924.4
70°	355.3	352.2	431.7	489.3	666.1	1076.8	1583.1	1804.2	1804.5	1789.6	1774.6
72.5°	168.7	170.5	193.6	301.1	436.0	719.4	1260.1	1440.0	1460.8	1434.0	1415.4
75°	121.2	123.9	137.9	184.2	260.0	431.7	816.8	1007.1	1007.7	960.2	917.9
77.5°	35.3	36.8	51.8	113.6	194.8	291.4	469.2	559.9	546.8	512.7	480.7
80°	14.6	14.6	15.2	36.2	78.2	197.9	328.2	431.1	429.6	416.5	397.6
82.5°	5.5	5.8	7.3	14.9	18.6	48.7	218.9	374.2	373.3	354.7	341.3
85°	0.6	0.6	1.8	6.4	7.0	9.1	43.8	165.0	164.1	165.0	144.6
87.5°	0.0	0.0	0.3	0.6	0.9	1.2	1.8	6.4	7.0	6.7	6.1
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: P150639

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	52.1	51.5	51.5	51.1	51.1	51.1	50.8	50.5	50.5	50.2	49.9
5°	56.9	56.3	56.0	55.4	55.1	54.8	54.2	53.9	53.3	53.0	52.7
7.5°	62.7	61.5	61.2	60.3	59.4	58.8	58.1	57.2	56.6	55.4	55.1
10°	70.0	68.5	67.3	66.1	65.2	63.6	62.7	61.5	60.3	59.4	58.5
12.5°	79.5	77.3	75.5	74.3	72.2	70.3	68.5	67.6	65.2	63.9	62.4
15°	89.8	87.4	85.2	82.8	81.3	78.2	75.8	73.1	71.9	69.7	67.3
17.5°	103.2	99.3	95.9	93.5	90.4	87.4	84.6	81.9	78.2	75.8	72.8
20°	117.5	114.2	109.6	105.3	101.7	98.0	94.1	90.4	87.1	83.1	79.5
22.5°	135.8	130.9	125.4	121.2	116.3	112.3	106.9	102.0	96.5	91.3	87.1
25°	158.9	152.5	147.4	141.3	135.5	129.4	122.7	116.6	109.6	104.7	97.4
27.5°	187.5	181.5	174.4	166.5	160.7	151.6	142.8	135.2	127.0	119.3	111.1
30°	224.1	215.2	207.9	200.3	188.8	179.9	169.6	159.2	148.0	140.4	127.9
32.5°	267.9	258.5	247.5	236.6	225.9	213.4	200.6	187.8	175.4	161.4	148.6
35°	321.5	310.2	297.8	285.9	269.4	256.0	239.9	222.2	208.2	192.1	176.0
37.5°	392.4	373.9	362.9	350.4	328.2	309.9	292.0	274.3	249.6	232.6	209.8
40°	481.3	470.4	452.4	432.3	412.2	388.2	363.8	340.4	311.8	288.0	261.5
42.5°	585.8	569.6	551.4	522.4	502.0	473.7	446.0	415.0	380.0	349.5	318.5
45°	683.8	664.6	650.6	621.7	600.4	566.9	533.4	500.5	460.0	420.8	384.8
47.5°	789.7	773.9	750.8	727.3	705.7	668.0	631.7	591.9	549.2	502.6	456.1
50°	882.9	870.4	854.6	826.3	802.2	770.6	727.9	684.4	630.5	584.2	531.3
52.5°	962.1	952.3	930.1	910.0	888.4	858.5	820.5	778.8	720.6	669.8	609.5
55°	1055.5	1048.5	1029.0	1016.6	997.4	968.8	933.1	894.5	833.0	777.6	709.4
57.5°	1208.7	1203.2	1186.1	1181.0	1162.1	1137.1	1093.3	1051.9	980.0	911.2	833.3
60°	1462.3	1451.3	1426.3	1413.6	1373.7	1340.2	1283.3	1226.3	1139.6	1051.9	958.1
62.5°	1733.8	1703.1	1655.6	1614.8	1558.2	1500.0	1423.9	1336.8	1235.2	1131.0	1023.3
65°	1880.3	1827.9	1767.9	1703.1	1629.7	1544.2	1448.3	1343.8	1234.5	1124.6	1010.8
66°	1897.0	1838.0	1774.3	1702.2	1620.6	1529.6	1432.1	1322.5	1209.0	1101.8	987.9
67.5°	1876.0	1814.2	1746.9	1666.9	1578.6	1484.2	1381.9	1268.0	1158.7	1050.0	939.2
70°	1729.0	1667.5	1607.5	1523.2	1429.1	1334.1	1237.3	1110.0	1006.5	906.7	808.0
72.5°	1380.7	1339.0	1279.6	1207.4	1115.8	1004.4	923.7	809.8	720.0	623.2	546.8
75°	862.8	804.1	730.7	638.7	568.7	478.3	431.1	344.6	293.5	248.7	205.5
77.5°	441.1	397.0	345.6	293.8	244.2	194.8	150.7	106.6	71.9	49.9	37.1
80°	364.4	325.5	282.8	235.6	191.8	148.9	107.2	73.1	46.6	30.4	23.7
82.5°	301.1	268.2	230.2	186.3	148.3	116.9	81.3	53.0	32.9	21.3	16.7
85°	128.2	116.3	89.8	71.2	53.6	39.6	27.7	18.6	13.1	10.7	9.7
87.5°	5.5	6.1	5.8	4.6	3.3	3.3	3.0	2.4	2.4	2.4	2.4
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: P150639

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	49.9	49.6	49.3	49.3	49.0	48.7	46.9	45.4	43.5	42.3	41.1
5°	52.1	51.8	51.1	50.8	50.2	49.9	46.0	42.6	39.9	37.8	36.2
7.5°	54.2	53.9	53.0	52.1	51.8	51.1	44.8	40.5	36.8	34.4	32.9
10°	56.9	56.0	55.1	53.9	53.0	52.1	43.5	38.1	34.1	32.0	30.4
12.5°	60.9	59.4	57.8	56.3	55.1	53.6	42.9	35.9	32.0	29.5	28.0
15°	65.5	63.3	61.5	59.7	57.5	56.0	41.7	34.1	30.1	27.7	25.9
17.5°	69.7	67.3	64.5	61.8	59.7	57.5	40.5	32.3	28.3	25.9	24.1
20°	75.8	72.2	68.8	65.5	62.4	59.7	38.7	30.4	26.8	24.1	22.2
22.5°	82.5	78.2	74.0	69.4	65.5	61.8	37.1	28.9	25.3	22.5	20.4
25°	91.0	85.9	80.1	74.3	69.7	64.8	35.6	27.4	23.7	21.0	18.9
27.5°	102.9	95.6	89.2	81.9	74.9	69.4	34.4	26.2	22.2	19.5	17.4
30°	119.0	108.4	98.3	90.4	82.2	74.3	33.2	24.7	21.0	18.0	15.5
32.5°	137.0	124.5	113.0	101.1	90.7	81.6	32.0	23.4	19.5	16.4	14.3
35°	159.2	143.4	127.9	114.2	101.7	89.5	30.7	22.2	18.3	14.9	12.8
37.5°	191.2	171.4	151.0	133.3	117.2	101.1	29.8	21.0	16.7	13.4	11.3
40°	235.0	209.5	184.5	160.4	139.4	119.3	28.6	19.8	15.5	12.2	10.0
42.5°	282.5	251.5	218.6	191.5	162.6	137.3	27.4	18.6	14.3	11.0	8.8
45°	341.6	302.9	263.0	226.2	190.9	158.3	26.2	17.4	12.8	9.7	7.6
47.5°	406.1	356.8	311.8	265.5	223.5	184.5	24.7	16.4	11.6	8.5	6.7
50°	472.5	420.4	363.5	310.8	260.9	210.7	23.1	14.9	10.4	7.6	5.5
52.5°	544.1	482.6	424.4	358.9	300.8	245.1	21.6	13.7	9.4	6.7	4.6
55°	635.1	566.3	498.1	424.7	354.7	285.0	20.1	12.2	8.2	5.8	3.7
57.5°	749.6	668.0	584.2	501.4	416.5	337.3	18.9	10.7	7.0	4.9	3.0
60°	857.6	762.3	661.0	565.7	469.8	377.5	17.0	9.4	6.1	4.0	3.0
62.5°	913.7	805.0	695.7	590.6	488.3	391.8	15.2	7.9	5.2	3.3	2.7
65°	900.0	789.1	683.2	577.2	477.1	382.7	13.4	7.0	4.6	3.0	2.7
66°	880.2	770.6	664.0	563.2	467.6	373.0	12.5	6.7	4.3	3.0	2.4
67.5°	836.9	731.0	629.3	535.5	441.8	354.4	11.3	6.1	4.0	2.7	2.4
70°	714.8	618.6	537.4	453.9	377.5	298.7	9.1	5.2	3.3	2.4	2.4
72.5°	473.1	407.7	353.5	304.1	254.2	197.3	7.6	4.3	2.7	2.4	2.1
75°	178.4	161.4	138.5	124.5	108.7	95.3	6.1	2.7	2.1	2.1	2.1
77.5°	31.7	29.2	25.9	23.7	21.9	20.1	4.9	1.8	1.8	2.1	2.1
80°	21.3	19.8	18.0	16.4	15.2	13.7	3.3	1.5	1.8	1.8	2.1
82.5°	15.2	14.3	13.4	12.2	11.3	10.0	2.1	1.5	1.8	1.8	1.8
85°	9.1	8.5	7.9	7.3	6.4	6.1	1.5	1.5	1.5	1.8	1.8
87.5°	2.4	2.1	2.4	2.4	1.8	2.1	1.2	1.2	1.2	1.5	1.5
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: P150639

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	47.8	47.8	47.8	47.8	47.8
2.5°	40.5	40.5	39.9	40.8	40.8
5°	35.0	35.0	34.7	35.0	35.0
7.5°	32.0	31.7	31.7	31.7	32.0
10°	29.2	28.9	28.9	28.9	28.9
12.5°	26.8	26.5	26.2	26.5	26.5
15°	24.7	24.1	24.1	24.1	24.1
17.5°	22.8	22.2	21.9	21.9	21.9
20°	21.0	20.1	20.1	20.1	20.1
22.5°	19.2	18.3	18.3	18.3	18.3
25°	17.4	16.4	16.4	16.4	16.4
27.5°	15.8	14.9	14.9	14.9	14.9
30°	14.0	13.4	13.4	13.7	13.4
32.5°	12.8	11.9	11.9	12.2	12.2
35°	11.3	10.7	10.7	10.7	10.7
37.5°	9.7	9.1	9.1	9.1	9.1
40°	8.5	7.9	7.6	7.9	7.9
42.5°	7.3	6.7	6.4	6.4	6.4
45°	6.4	5.5	5.2	5.5	5.5
47.5°	5.2	4.6	4.6	4.9	4.9
50°	4.0	4.0	4.3	4.9	4.9
52.5°	3.7	3.7	4.3	4.9	4.9
55°	3.3	3.7	4.3	4.6	4.9
57.5°	3.0	3.7	4.3	4.6	4.6
60°	3.0	3.3	4.0	4.6	4.6
62.5°	2.7	3.0	3.7	4.3	4.3
65°	2.7	3.0	3.7	4.3	4.3
66°	2.7	3.0	3.7	4.3	4.3
67.5°	2.7	3.0	3.7	4.3	4.3
70°	2.7	3.0	3.7	4.0	4.0
72.5°	2.4	2.7	3.3	4.0	4.0
75°	2.4	2.7	3.3	4.0	4.0
77.5°	2.4	2.7	3.3	4.0	4.0
80°	2.4	2.7	3.3	3.7	4.0
82.5°	2.1	2.7	3.0	3.7	3.7
85°	2.1	2.4	3.0	3.3	3.7
87.5°	1.8	2.1	2.4	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)