

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: P150638

Luminaire Tested: **TLM-E01-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150638
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-8030
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, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1463.3 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 4.23 / 3.52 / 4.33
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

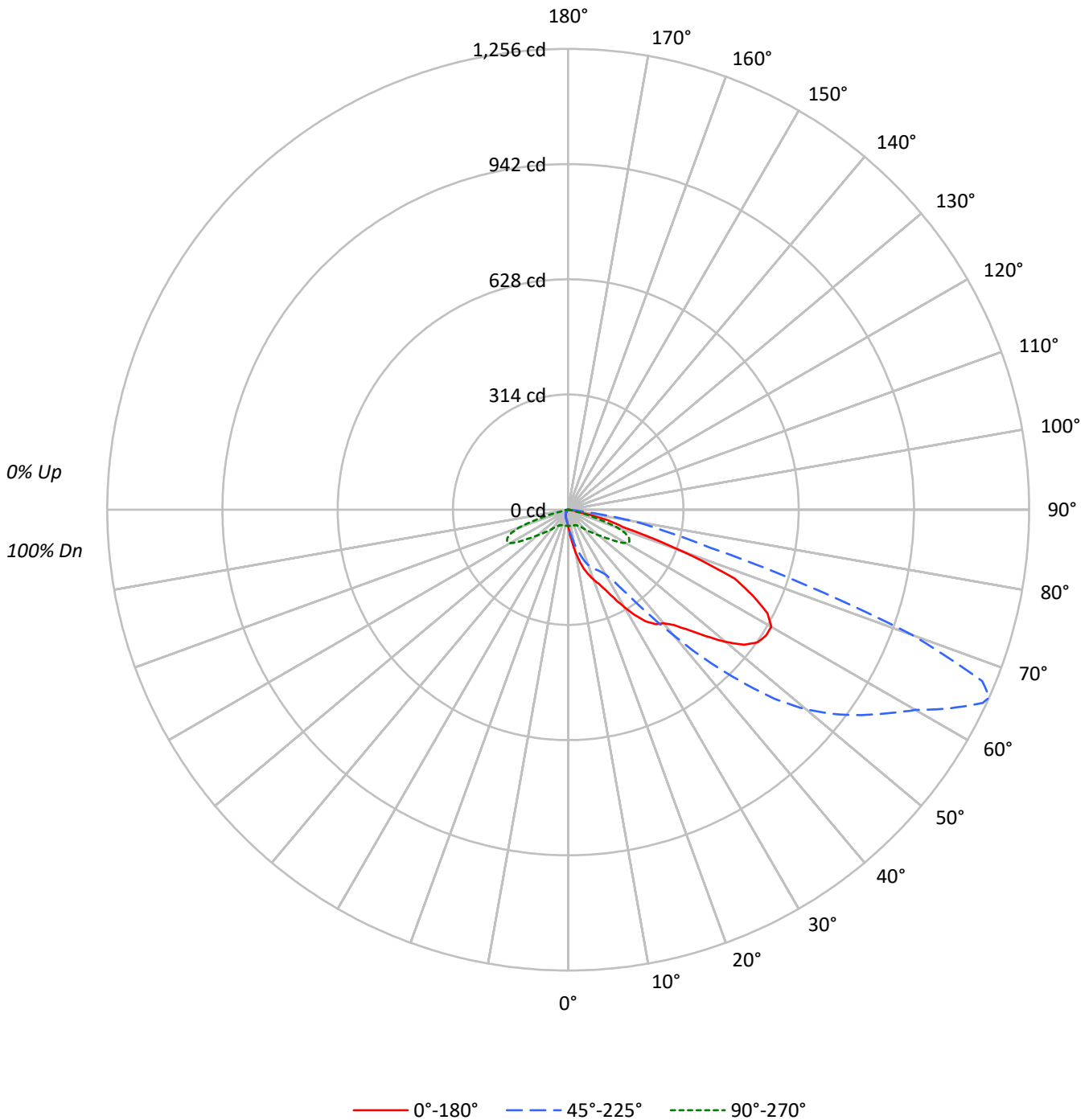
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

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°	2799	2799	2799
5°	4684	2816	2059
10°	7690	2839	1717
15°	10973	2960	1455
20°	13651	3059	1253
25°	16886	3242	1062
30°	22438	3630	907
35°	28793	4294	758
40°	33392	5649	603
45°	41468	7634	457
50°	55231	10643	443
55°	69568	15559	497
60°	80907	23085	532
65°	83166	27417	584
70°	60777	26325	685
75°	27400	11461	905
80°	4922	2881	1349
85°	436	2543	2470



TEST NUMBER: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.3
10°-20°	21.0	1.4
20°-30°	45.2	3.1
30°-40°	96.6	6.6
40°-50°	213.6	14.6
50°-60°	361.9	24.7
60°-70°	482.9	33.0
70°-80°	212.7	14.5
80°-90°	24.5	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°	71.1	4.9
0°-40°	167.7	11.5
0°-60°	743.2	50.8
0°-90°	1463.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	74	62	44	34	32	8
15°	167	128	45	24	22	48
25°	242	180	46	17	15	116
35°	372	279	56	12	10	231
45°	463	657	85	7	5	366
55°	630	976	141	3	4	555
65°	555	1246	183	2	4	530
75°	112	399	47	2	4	124
85°	1	8	4	2	3	3
90°	0	0	0	0	0	



TEST NUMBER: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	55.7	55.4	54.3	54.3	52.6	51.5	50.1	48.7	48.7	48.4	48.1
5°	73.7	72.0	71.7	68.6	66.1	62.5	59.1	54.6	54.0	53.5	53.2
7.5°	93.7	93.4	90.9	87.2	82.1	75.4	68.6	61.3	60.2	59.6	58.5
10°	119.6	118.2	114.8	108.6	101.0	92.0	81.0	69.5	68.1	67.0	66.4
12.5°	144.3	141.8	139.8	131.9	122.4	109.2	95.9	79.3	78.2	76.8	74.6
15°	167.4	165.1	161.8	155.0	144.3	127.7	112.3	92.0	89.2	87.2	85.5
17.5°	185.4	184.0	180.1	172.5	160.9	146.3	127.7	104.9	102.7	100.2	97.1
20°	202.6	200.6	194.4	184.0	171.6	160.4	146.0	121.8	118.7	115.6	112.3
22.5°	218.9	216.9	206.8	189.6	176.4	171.6	166.5	140.9	136.2	133.6	130.3
25°	241.7	237.4	221.7	194.4	176.7	180.3	189.1	165.7	161.2	157.5	152.2
27.5°	272.3	266.7	241.9	201.4	177.8	189.9	214.9	195.8	191.0	186.8	180.9
30°	306.9	303.3	273.7	218.3	186.0	204.0	243.9	234.1	228.4	223.4	216.3
32.5°	341.8	336.8	307.5	250.4	207.9	231.3	280.2	278.5	271.2	266.4	258.8
35°	372.5	369.9	348.3	303.0	258.0	279.1	328.6	330.6	324.1	319.0	310.6
37.5°	393.3	393.3	389.1	359.5	337.6	353.4	399.8	400.1	393.6	382.0	377.8
40°	404.0	407.1	422.3	427.9	426.8	447.0	493.2	488.1	482.8	476.9	462.8
42.5°	425.9	428.7	461.1	499.9	525.2	552.0	583.8	582.1	575.6	564.9	552.0
45°	463.1	466.7	505.3	566.9	618.9	656.9	677.2	669.3	662.8	652.7	645.9
47.5°	510.3	517.4	561.0	637.2	699.9	762.7	783.8	763.0	757.3	749.5	738.5
50°	560.7	567.4	613.9	701.1	772.0	846.8	882.0	846.8	838.6	836.1	823.7
52.5°	604.3	609.9	654.7	750.3	827.1	914.9	966.1	919.7	913.8	905.3	896.3
55°	630.2	634.7	676.6	773.9	864.5	976.2	1047.4	1006.6	997.9	994.5	981.6
57.5°	638.9	643.4	681.1	777.0	884.8	1032.2	1146.1	1147.5	1137.1	1125.0	1121.1
60°	638.9	644.0	675.8	769.4	904.5	1091.8	1277.8	1395.1	1372.6	1370.4	1356.0
62.5°	612.5	617.2	649.3	746.1	930.9	1172.3	1461.2	1668.3	1661.8	1647.2	1623.6
65°	555.1	557.9	589.4	686.4	920.8	1246.3	1620.2	1850.0	1839.6	1810.9	1780.5
66°	529.2	531.4	561.0	652.4	887.6	1256.4	1648.3	1872.8	1855.7	1831.5	1797.1
67.5°	491.8	495.7	516.5	589.1	808.0	1221.3	1630.6	1856.8	1841.9	1812.6	1778.3
70°	328.3	325.5	398.9	452.1	615.6	995.1	1462.9	1667.2	1667.4	1653.7	1639.9
72.5°	155.9	157.5	178.9	278.2	402.9	664.8	1164.4	1330.7	1349.8	1325.1	1307.9
75°	112.0	114.5	127.4	170.2	240.3	398.9	754.8	930.6	931.2	887.3	848.2
77.5°	32.6	34.0	47.8	104.9	180.1	269.2	433.5	517.4	505.3	473.8	444.2
80°	13.5	13.5	14.1	33.5	72.3	182.9	303.3	398.4	397.0	384.9	367.4
82.5°	5.1	5.3	6.8	13.8	17.2	45.0	202.3	345.8	344.9	327.7	315.4
85°	0.6	0.6	1.7	5.9	6.5	8.4	40.5	152.5	151.6	152.5	133.6
87.5°	0.0	0.0	0.3	0.6	0.8	1.1	1.7	5.9	6.5	6.2	5.6
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: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	48.1	47.5	47.5	47.3	47.3	47.3	47.0	46.7	46.7	46.4	46.1
5°	52.6	52.0	51.8	51.2	50.9	50.6	50.1	49.8	49.2	49.0	48.7
7.5°	58.0	56.8	56.5	55.7	54.9	54.3	53.7	52.9	52.3	51.2	50.9
10°	64.7	63.3	62.2	61.0	60.2	58.8	58.0	56.8	55.7	54.9	54.0
12.5°	73.4	71.5	69.8	68.6	66.7	65.0	63.3	62.5	60.2	59.1	57.7
15°	83.0	80.7	78.8	76.5	75.1	72.3	70.1	67.5	66.4	64.4	62.2
17.5°	95.4	91.7	88.6	86.4	83.6	80.7	78.2	75.7	72.3	70.1	67.2
20°	108.6	105.5	101.3	97.3	94.0	90.6	86.9	83.6	80.5	76.8	73.4
22.5°	125.5	121.0	115.9	112.0	107.5	103.8	98.7	94.2	89.2	84.4	80.5
25°	146.9	140.9	136.2	130.5	125.2	119.6	113.4	107.7	101.3	96.8	90.0
27.5°	173.3	167.7	161.2	153.9	148.5	140.1	131.9	124.9	117.3	110.3	102.7
30°	207.1	198.9	192.1	185.1	174.4	166.3	156.7	147.1	136.7	129.7	118.2
32.5°	247.6	238.8	228.7	218.6	208.7	197.2	185.4	173.6	162.0	149.1	137.3
35°	297.1	286.7	275.1	264.2	249.0	236.6	221.7	205.4	192.4	177.5	162.6
37.5°	362.6	345.5	335.3	323.8	303.3	286.4	269.8	253.5	230.7	214.9	193.8
40°	444.8	434.7	418.1	399.5	380.9	358.7	336.2	314.5	288.1	266.1	241.7
42.5°	541.3	526.4	509.5	482.8	463.9	437.7	412.1	383.5	351.1	323.0	294.3
45°	631.9	614.1	601.2	574.5	554.8	523.8	492.9	462.5	425.1	388.8	355.6
47.5°	729.8	715.1	693.8	672.1	652.1	617.2	583.8	546.9	507.5	464.5	421.4
50°	815.9	804.3	789.7	763.5	741.3	712.0	672.7	632.4	582.6	539.9	490.9
52.5°	889.0	880.0	859.5	840.9	820.9	793.4	758.2	719.6	665.9	618.9	563.2
55°	975.4	968.9	950.9	939.4	921.6	895.2	862.3	826.5	769.7	718.5	655.5
57.5°	1116.9	1111.8	1096.1	1091.3	1073.8	1050.8	1010.3	972.0	905.6	842.0	770.0
60°	1351.2	1341.1	1318.0	1306.2	1269.4	1238.4	1185.8	1133.2	1053.0	972.0	885.3
62.5°	1602.2	1573.8	1529.9	1492.2	1439.8	1386.1	1315.8	1235.3	1141.4	1045.1	945.6
65°	1737.5	1689.1	1633.7	1573.8	1506.0	1426.9	1338.3	1241.8	1140.8	1039.2	934.0
66°	1753.0	1698.4	1639.6	1572.9	1497.5	1413.4	1323.4	1222.1	1117.2	1018.1	912.9
67.5°	1733.6	1676.4	1614.3	1540.3	1458.7	1371.5	1277.0	1171.7	1070.7	970.3	867.9
70°	1597.7	1540.8	1485.4	1407.5	1320.6	1232.8	1143.3	1025.7	930.1	837.8	746.7
72.5°	1275.8	1237.3	1182.4	1115.8	1031.1	928.1	853.6	748.3	665.3	575.9	505.3
75°	797.3	743.0	675.2	590.2	525.5	442.0	398.4	318.5	271.2	229.8	189.9
77.5°	407.6	366.9	319.3	271.5	225.6	180.1	139.3	98.5	66.4	46.1	34.3
80°	336.8	300.7	261.4	217.7	177.2	137.6	99.0	67.5	43.0	28.1	21.9
82.5°	278.2	247.9	212.7	172.2	137.0	108.0	75.1	49.0	30.4	19.7	15.5
85°	118.4	107.5	83.0	65.8	49.5	36.6	25.6	17.2	12.1	9.8	9.0
87.5°	5.1	5.6	5.3	4.2	3.1	3.1	2.8	2.3	2.3	2.3	2.3
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: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
2.5°	46.1	45.9	45.6	45.6	45.3	45.0	43.3	41.9	40.2	39.1	38.0
5°	48.1	47.8	47.3	47.0	46.4	46.1	42.5	39.4	36.9	34.9	33.5
7.5°	50.1	49.8	49.0	48.1	47.8	47.3	41.4	37.4	34.0	31.8	30.4
10°	52.6	51.8	50.9	49.8	49.0	48.1	40.2	35.2	31.5	29.5	28.1
12.5°	56.3	54.9	53.5	52.0	50.9	49.5	39.7	33.2	29.5	27.3	25.9
15°	60.5	58.5	56.8	55.1	53.2	51.8	38.5	31.5	27.9	25.6	23.9
17.5°	64.4	62.2	59.6	57.1	55.1	53.2	37.4	29.8	26.2	23.9	22.2
20°	70.1	66.7	63.6	60.5	57.7	55.1	35.7	28.1	24.8	22.2	20.5
22.5°	76.2	72.3	68.4	64.1	60.5	57.1	34.3	26.7	23.4	20.8	18.8
25°	84.1	79.3	74.0	68.6	64.4	59.9	32.9	25.3	21.9	19.4	17.4
27.5°	95.1	88.3	82.4	75.7	69.2	64.1	31.8	24.2	20.5	18.0	16.0
30°	110.0	100.2	90.9	83.6	76.0	68.6	30.7	22.8	19.4	16.6	14.3
32.5°	126.6	115.1	104.4	93.4	83.8	75.4	29.5	21.7	18.0	15.2	13.2
35°	147.1	132.5	118.2	105.5	94.0	82.7	28.4	20.5	16.9	13.8	11.8
37.5°	176.7	158.4	139.5	123.2	108.3	93.4	27.6	19.4	15.5	12.4	10.4
40°	217.2	193.6	170.5	148.3	128.8	110.3	26.4	18.3	14.3	11.3	9.3
42.5°	261.1	232.4	202.0	177.0	150.2	126.9	25.3	17.2	13.2	10.1	8.2
45°	315.7	279.9	243.1	209.0	176.4	146.3	24.2	16.0	11.8	9.0	7.0
47.5°	375.3	329.7	288.1	245.3	206.5	170.5	22.8	15.2	10.7	7.9	6.2
50°	436.6	388.5	335.9	287.2	241.1	194.7	21.4	13.8	9.6	7.0	5.1
52.5°	502.7	445.9	392.2	331.7	278.0	226.5	20.0	12.7	8.7	6.2	4.2
55°	586.9	523.3	460.3	392.5	327.7	263.3	18.6	11.3	7.6	5.3	3.4
57.5°	692.6	617.2	539.9	463.4	384.9	311.7	17.4	9.8	6.5	4.5	2.8
60°	792.5	704.5	610.8	522.7	434.1	348.8	15.8	8.7	5.6	3.7	2.8
62.5°	844.3	743.8	642.8	545.8	451.3	362.1	14.1	7.3	4.8	3.1	2.5
65°	831.6	729.2	631.3	533.4	440.8	353.6	12.4	6.5	4.2	2.8	2.5
66°	813.3	712.0	613.6	520.5	432.1	344.6	11.5	6.2	3.9	2.8	2.3
67.5°	773.4	675.5	581.5	494.9	408.2	327.5	10.4	5.6	3.7	2.5	2.3
70°	660.6	571.7	496.5	419.5	348.8	276.0	8.4	4.8	3.1	2.3	2.3
72.5°	437.2	376.7	326.6	281.0	234.9	182.3	7.0	3.9	2.5	2.3	2.0
75°	164.9	149.1	128.0	115.1	100.4	88.1	5.6	2.5	2.0	2.0	2.0
77.5°	29.3	27.0	23.9	21.9	20.3	18.6	4.5	1.7	1.7	2.0	2.0
80°	19.7	18.3	16.6	15.2	14.1	12.7	3.1	1.4	1.7	1.7	2.0
82.5°	14.1	13.2	12.4	11.3	10.4	9.3	2.0	1.4	1.7	1.7	1.7
85°	8.4	7.9	7.3	6.8	5.9	5.6	1.4	1.4	1.4	1.7	1.7
87.5°	2.3	2.0	2.3	2.3	1.7	2.0	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: P150638

CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	44.2	44.2	44.2	44.2	44.2
2.5°	37.4	37.4	36.9	37.7	37.7
5°	32.4	32.4	32.1	32.4	32.4
7.5°	29.5	29.3	29.3	29.3	29.5
10°	27.0	26.7	26.7	26.7	26.7
12.5°	24.8	24.5	24.2	24.5	24.5
15°	22.8	22.2	22.2	22.2	22.2
17.5°	21.1	20.5	20.3	20.3	20.3
20°	19.4	18.6	18.6	18.6	18.6
22.5°	17.7	16.9	16.9	16.9	16.9
25°	16.0	15.2	15.2	15.2	15.2
27.5°	14.6	13.8	13.8	13.8	13.8
30°	12.9	12.4	12.4	12.7	12.4
32.5°	11.8	11.0	11.0	11.3	11.3
35°	10.4	9.8	9.8	9.8	9.8
37.5°	9.0	8.4	8.4	8.4	8.4
40°	7.9	7.3	7.0	7.3	7.3
42.5°	6.8	6.2	5.9	5.9	5.9
45°	5.9	5.1	4.8	5.1	5.1
47.5°	4.8	4.2	4.2	4.5	4.5
50°	3.7	3.7	3.9	4.5	4.5
52.5°	3.4	3.4	3.9	4.5	4.5
55°	3.1	3.4	3.9	4.2	4.5
57.5°	2.8	3.4	3.9	4.2	4.2
60°	2.8	3.1	3.7	4.2	4.2
62.5°	2.5	2.8	3.4	3.9	3.9
65°	2.5	2.8	3.4	3.9	3.9
66°	2.5	2.8	3.4	3.9	3.9
67.5°	2.5	2.8	3.4	3.9	3.9
70°	2.5	2.8	3.4	3.7	3.7
72.5°	2.3	2.5	3.1	3.7	3.7
75°	2.3	2.5	3.1	3.7	3.7
77.5°	2.3	2.5	3.1	3.7	3.7
80°	2.3	2.5	3.1	3.4	3.7
82.5°	2.0	2.5	2.8	3.4	3.4
85°	2.0	2.3	2.8	3.1	3.4
87.5°	1.7	2.0	2.3	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)