

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: P150640

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150640
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1733.8 lumens
Efficiency: N/A
Efficacy: 70.2 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

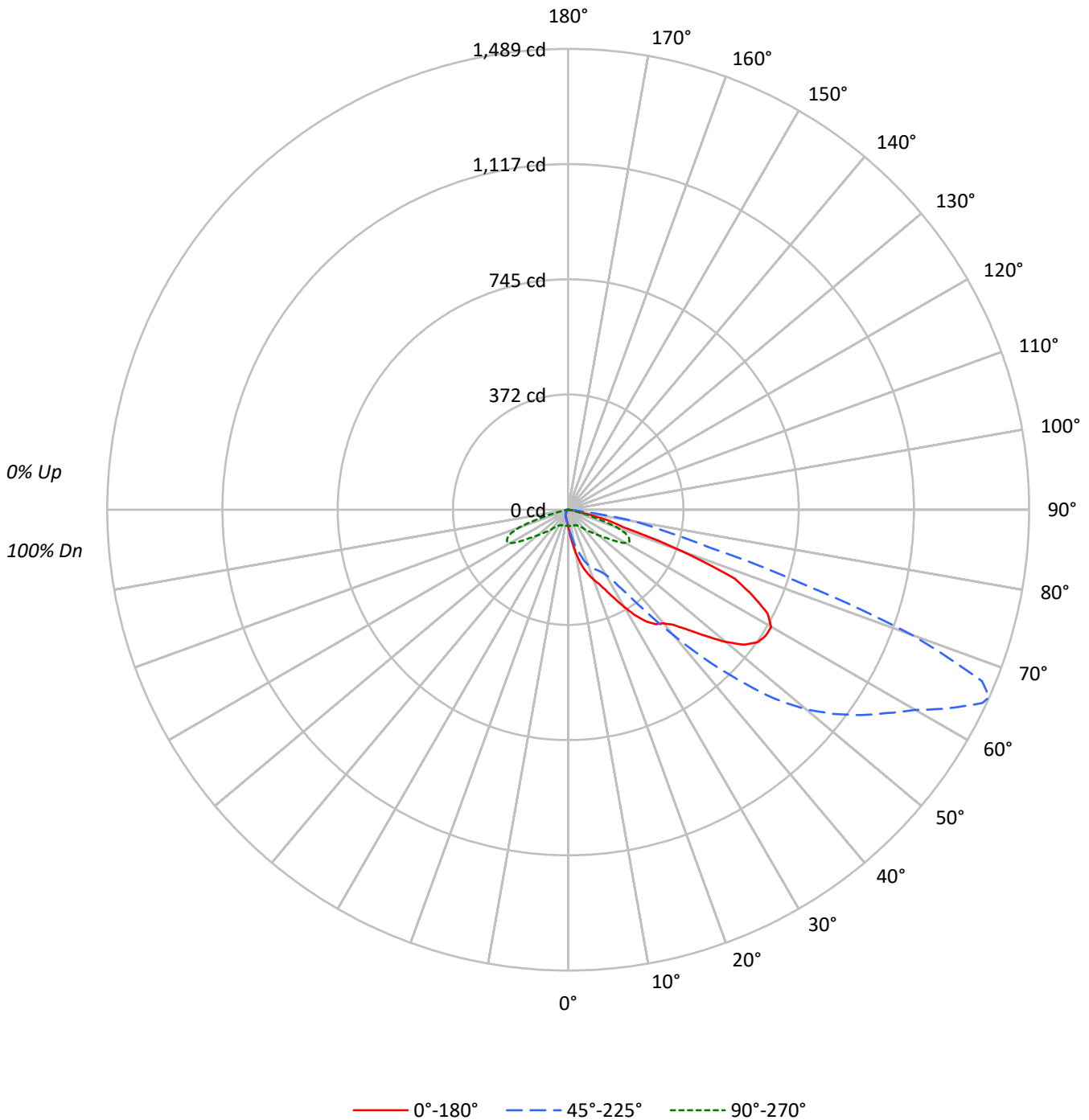
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3311	3311	3311
5°	5549	3337	2434
10°	9110	3366	2038
15°	12999	3507	1724
20°	16171	3625	1482
25°	20002	3842	1258
30°	26591	4299	1075
35°	34111	5090	904
40°	39567	6695	719
45°	49133	9044	537
50°	65436	12609	522
55°	82428	18435	585
60°	95862	27353	633
65°	98537	32489	704
70°	72014	31194	796
75°	32464	13577	1052
80°	5834	3409	1568
85°	509	3051	2906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.3
10°-20°	24.8	1.4
20°-30°	53.6	3.1
30°-40°	114.4	6.6
40°-50°	253.0	14.6
50°-60°	428.8	24.7
60°-70°	572.2	33.0
70°-80°	252.1	14.5
80°-90°	29.0	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°	84.3	4.9
0°-40°	198.7	11.5
0°-60°	880.5	50.8
0°-90°	1733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	87	74	52	40	38	10
15°	198	151	54	28	26	57
25°	286	214	55	21	18	137
35°	441	331	66	14	12	274
45°	549	778	101	8	6	434
55°	747	1157	167	4	5	658
65°	658	1477	217	3	5	628
75°	133	473	56	2	4	146
85°	1	10	4	2	4	4
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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	66.0	65.7	64.3	64.3	62.3	61.0	59.3	57.7	57.7	57.3	57.0
5°	87.3	85.3	85.0	81.3	78.3	74.0	70.0	64.7	64.0	63.3	63.0
7.5°	111.0	110.7	107.7	103.3	97.3	89.3	81.3	72.7	71.3	70.7	69.3
10°	141.7	140.0	136.0	128.7	119.7	109.0	96.0	82.3	80.7	79.3	78.7
12.5°	171.0	168.0	165.7	156.3	145.0	129.3	113.7	94.0	92.7	91.0	88.3
15°	198.3	195.7	191.7	183.7	171.0	151.3	133.0	109.0	105.7	103.3	101.3
17.5°	219.7	218.0	213.3	204.3	190.7	173.3	151.3	124.3	121.7	118.7	115.0
20°	240.0	237.7	230.3	218.0	203.3	190.0	173.0	144.3	140.7	137.0	133.0
22.5°	259.3	257.0	245.0	224.7	209.0	203.3	197.3	167.0	161.3	158.3	154.3
25°	286.3	281.3	262.7	230.3	209.3	213.7	224.0	196.3	191.0	186.7	180.3
27.5°	322.7	316.0	286.7	238.7	210.7	225.0	254.7	232.0	226.3	221.3	214.3
30°	363.7	359.3	324.3	258.7	220.3	241.7	289.0	277.3	270.7	264.7	256.3
32.5°	405.0	399.0	364.3	296.7	246.3	274.0	332.0	330.0	321.3	315.7	306.7
35°	441.3	438.3	412.7	359.0	305.7	330.7	389.3	391.7	384.0	378.0	368.0
37.5°	466.0	466.0	461.0	426.0	400.0	418.7	473.7	474.0	466.3	452.7	447.7
40°	478.7	482.3	500.3	507.0	505.7	529.7	584.3	578.3	572.0	565.0	548.3
42.5°	504.7	508.0	546.3	592.3	622.3	654.0	691.7	689.7	682.0	669.3	654.0
45°	548.7	553.0	598.7	671.7	733.3	778.3	802.3	793.0	785.3	773.3	765.3
47.5°	604.7	613.0	664.7	755.0	829.3	903.7	928.7	904.0	897.3	888.0	875.0
50°	664.3	672.3	727.3	830.7	914.7	1003.3	1045.0	1003.3	993.7	990.7	976.0
52.5°	716.0	722.7	775.7	889.0	980.0	1084.0	1144.7	1089.7	1082.7	1072.7	1062.0
55°	746.7	752.0	801.7	917.0	1024.3	1156.7	1241.0	1192.7	1182.3	1178.3	1163.0
57.5°	757.0	762.3	807.0	920.7	1048.3	1223.0	1358.0	1359.7	1347.3	1333.0	1328.3
60°	757.0	763.0	800.7	911.7	1071.7	1293.7	1514.0	1653.0	1626.3	1623.7	1606.7
62.5°	725.7	731.3	769.3	884.0	1103.0	1389.0	1731.3	1976.7	1969.0	1951.7	1923.7
65°	657.7	661.0	698.3	813.3	1091.0	1476.7	1919.7	2192.0	2179.7	2145.7	2109.7
66°	627.0	629.7	664.7	773.0	1051.7	1488.7	1953.0	2219.0	2198.7	2170.0	2129.3
67.5°	582.7	587.3	612.0	698.0	957.3	1447.0	1932.0	2200.0	2182.3	2147.7	2107.0
70°	389.0	385.7	472.7	535.7	729.3	1179.0	1733.3	1975.3	1975.7	1959.3	1943.0
72.5°	184.7	186.7	212.0	329.7	477.3	787.7	1379.7	1576.7	1599.3	1570.0	1549.7
75°	132.7	135.7	151.0	201.7	284.7	472.7	894.3	1102.7	1103.3	1051.3	1005.0
77.5°	38.7	40.3	56.7	124.3	213.3	319.0	513.7	613.0	598.7	561.3	526.3
80°	16.0	16.0	16.7	39.7	85.7	216.7	359.3	472.0	470.3	456.0	435.3
82.5°	6.0	6.3	8.0	16.3	20.3	53.3	239.7	409.7	408.7	388.3	373.7
85°	0.7	0.7	2.0	7.0	7.7	10.0	48.0	180.7	179.7	180.7	158.3
87.5°	0.0	0.0	0.3	0.7	1.0	1.3	2.0	7.0	7.7	7.3	6.7
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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	57.0	56.3	56.3	56.0	56.0	56.0	55.7	55.3	55.3	55.0	54.7
5°	62.3	61.7	61.3	60.7	60.3	60.0	59.3	59.0	58.3	58.0	57.7
7.5°	68.7	67.3	67.0	66.0	65.0	64.3	63.7	62.7	62.0	60.7	60.3
10°	76.7	75.0	73.7	72.3	71.3	69.7	68.7	67.3	66.0	65.0	64.0
12.5°	87.0	84.7	82.7	81.3	79.0	77.0	75.0	74.0	71.3	70.0	68.3
15°	98.3	95.7	93.3	90.7	89.0	85.7	83.0	80.0	78.7	76.3	73.7
17.5°	113.0	108.7	105.0	102.3	99.0	95.7	92.7	89.7	85.7	83.0	79.7
20°	128.7	125.0	120.0	115.3	111.3	107.3	103.0	99.0	95.3	91.0	87.0
22.5°	148.7	143.3	137.3	132.7	127.3	123.0	117.0	111.7	105.7	100.0	95.3
25°	174.0	167.0	161.3	154.7	148.3	141.7	134.3	127.7	120.0	114.7	106.7
27.5°	205.3	198.7	191.0	182.3	176.0	166.0	156.3	148.0	139.0	130.7	121.7
30°	245.3	235.7	227.7	219.3	206.7	197.0	185.7	174.3	162.0	153.7	140.0
32.5°	293.3	283.0	271.0	259.0	247.3	233.7	219.7	205.7	192.0	176.7	162.7
35°	352.0	339.7	326.0	313.0	295.0	280.3	262.7	243.3	228.0	210.3	192.7
37.5°	429.7	409.3	397.3	383.7	359.3	339.3	319.7	300.3	273.3	254.7	229.7
40°	527.0	515.0	495.3	473.3	451.3	425.0	398.3	372.7	341.3	315.3	286.3
42.5°	641.3	623.7	603.7	572.0	549.7	518.7	488.3	454.3	416.0	382.7	348.7
45°	748.7	727.7	712.3	680.7	657.3	620.7	584.0	548.0	503.7	460.7	421.3
47.5°	864.7	847.3	822.0	796.3	772.7	731.3	691.7	648.0	601.3	550.3	499.3
50°	966.7	953.0	935.7	904.7	878.3	843.7	797.0	749.3	690.3	639.7	581.7
52.5°	1053.3	1042.7	1018.3	996.3	972.7	940.0	898.3	852.7	789.0	733.3	667.3
55°	1155.7	1148.0	1126.7	1113.0	1092.0	1060.7	1021.7	979.3	912.0	851.3	776.7
57.5°	1323.3	1317.3	1298.7	1293.0	1272.3	1245.0	1197.0	1151.7	1073.0	997.7	912.3
60°	1601.0	1589.0	1561.7	1547.7	1504.0	1467.3	1405.0	1342.7	1247.7	1151.7	1049.0
62.5°	1898.3	1864.7	1812.7	1768.0	1706.0	1642.3	1559.0	1463.7	1352.3	1238.3	1120.3
65°	2058.7	2001.3	1935.7	1864.7	1784.3	1690.7	1585.7	1471.3	1351.7	1231.3	1106.7
66°	2077.0	2012.3	1942.7	1863.7	1774.3	1674.7	1568.0	1448.0	1323.7	1206.3	1081.7
67.5°	2054.0	1986.3	1912.7	1825.0	1728.3	1625.0	1513.0	1388.3	1268.7	1149.7	1028.3
70°	1893.0	1825.7	1760.0	1667.7	1564.7	1460.7	1354.7	1215.3	1102.0	992.7	884.7
72.5°	1511.7	1466.0	1401.0	1322.0	1221.7	1099.7	1011.3	886.7	788.3	682.3	598.7
75°	944.7	880.3	800.0	699.3	622.7	523.7	472.0	377.3	321.3	272.3	225.0
77.5°	483.0	434.7	378.3	321.7	267.3	213.3	165.0	116.7	78.7	54.7	40.7
80°	399.0	356.3	309.7	258.0	210.0	163.0	117.3	80.0	51.0	33.3	26.0
82.5°	329.7	293.7	252.0	204.0	162.3	128.0	89.0	58.0	36.0	23.3	18.3
85°	140.3	127.3	98.3	78.0	58.7	43.3	30.3	20.3	14.3	11.7	10.7
87.5°	6.0	6.7	6.3	5.0	3.7	3.7	3.3	2.7	2.7	2.7	2.7
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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	54.7	54.3	54.0	54.0	53.7	53.3	51.3	49.7	47.7	46.3	45.0
5°	57.0	56.7	56.0	55.7	55.0	54.7	50.3	46.7	43.7	41.3	39.7
7.5°	59.3	59.0	58.0	57.0	56.7	56.0	49.0	44.3	40.3	37.7	36.0
10°	62.3	61.3	60.3	59.0	58.0	57.0	47.7	41.7	37.3	35.0	33.3
12.5°	66.7	65.0	63.3	61.7	60.3	58.7	47.0	39.3	35.0	32.3	30.7
15°	71.7	69.3	67.3	65.3	63.0	61.3	45.7	37.3	33.0	30.3	28.3
17.5°	76.3	73.7	70.7	67.7	65.3	63.0	44.3	35.3	31.0	28.3	26.3
20°	83.0	79.0	75.3	71.7	68.3	65.3	42.3	33.3	29.3	26.3	24.3
22.5°	90.3	85.7	81.0	76.0	71.7	67.7	40.7	31.7	27.7	24.7	22.3
25°	99.7	94.0	87.7	81.3	76.3	71.0	39.0	30.0	26.0	23.0	20.7
27.5°	112.7	104.7	97.7	89.7	82.0	76.0	37.7	28.7	24.3	21.3	19.0
30°	130.3	118.7	107.7	99.0	90.0	81.3	36.3	27.0	23.0	19.7	17.0
32.5°	150.0	136.3	123.7	110.7	99.3	89.3	35.0	25.7	21.3	18.0	15.7
35°	174.3	157.0	140.0	125.0	111.3	98.0	33.7	24.3	20.0	16.3	14.0
37.5°	209.3	187.7	165.3	146.0	128.3	110.7	32.7	23.0	18.3	14.7	12.3
40°	257.3	229.3	202.0	175.7	152.7	130.7	31.3	21.7	17.0	13.3	11.0
42.5°	309.3	275.3	239.3	209.7	178.0	150.3	30.0	20.3	15.7	12.0	9.7
45°	374.0	331.7	288.0	247.7	209.0	173.3	28.7	19.0	14.0	10.7	8.3
47.5°	444.7	390.7	341.3	290.7	244.7	202.0	27.0	18.0	12.7	9.3	7.3
50°	517.3	460.3	398.0	340.3	285.7	230.7	25.3	16.3	11.3	8.3	6.0
52.5°	595.7	528.3	464.7	393.0	329.3	268.3	23.7	15.0	10.3	7.3	5.0
55°	695.3	620.0	545.3	465.0	388.3	312.0	22.0	13.3	9.0	6.3	4.0
57.5°	820.7	731.3	639.7	549.0	456.0	369.3	20.7	11.7	7.7	5.3	3.3
60°	939.0	834.7	723.7	619.3	514.3	413.3	18.7	10.3	6.7	4.3	3.3
62.5°	1000.3	881.3	761.7	646.7	534.7	429.0	16.7	8.7	5.7	3.7	3.0
65°	985.3	864.0	748.0	632.0	522.3	419.0	14.7	7.7	5.0	3.3	3.0
66°	963.7	843.7	727.0	616.7	512.0	408.3	13.7	7.3	4.7	3.3	2.7
67.5°	916.3	800.3	689.0	586.3	483.7	388.0	12.3	6.7	4.3	3.0	2.7
70°	782.7	677.3	588.3	497.0	413.3	327.0	10.0	5.7	3.7	2.7	2.7
72.5°	518.0	446.3	387.0	333.0	278.3	216.0	8.3	4.7	3.0	2.7	2.3
75°	195.3	176.7	151.7	136.3	119.0	104.3	6.7	3.0	2.3	2.3	2.3
77.5°	34.7	32.0	28.3	26.0	24.0	22.0	5.3	2.0	2.0	2.3	2.3
80°	23.3	21.7	19.7	18.0	16.7	15.0	3.7	1.7	2.0	2.0	2.3
82.5°	16.7	15.7	14.7	13.3	12.3	11.0	2.3	1.7	2.0	2.0	2.0
85°	10.0	9.3	8.7	8.0	7.0	6.7	1.7	1.7	1.7	2.0	2.0
87.5°	2.7	2.3	2.7	2.7	2.0	2.3	1.3	1.3	1.3	1.7	1.7
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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CATALOG NUMBER: TLM-E01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	52.3	52.3	52.3	52.3	52.3
2.5°	44.3	44.3	43.7	44.7	44.7
5°	38.3	38.3	38.0	38.3	38.3
7.5°	35.0	34.7	34.7	34.7	35.0
10°	32.0	31.7	31.7	31.7	31.7
12.5°	29.3	29.0	28.7	29.0	29.0
15°	27.0	26.3	26.3	26.3	26.3
17.5°	25.0	24.3	24.0	24.0	24.0
20°	23.0	22.0	22.0	22.0	22.0
22.5°	21.0	20.0	20.0	20.0	20.0
25°	19.0	18.0	18.0	18.0	18.0
27.5°	17.3	16.3	16.3	16.3	16.3
30°	15.3	14.7	14.7	15.0	14.7
32.5°	14.0	13.0	13.0	13.3	13.3
35°	12.3	11.7	11.7	11.7	11.7
37.5°	10.7	10.0	10.0	10.0	10.0
40°	9.3	8.7	8.3	8.7	8.7
42.5°	8.0	7.3	7.0	7.0	7.0
45°	7.0	6.0	5.7	6.0	6.0
47.5°	5.7	5.0	5.0	5.3	5.3
50°	4.3	4.3	4.7	5.3	5.3
52.5°	4.0	4.0	4.7	5.3	5.3
55°	3.7	4.0	4.7	5.0	5.3
57.5°	3.3	4.0	4.7	5.0	5.0
60°	3.3	3.7	4.3	5.0	5.0
62.5°	3.0	3.3	4.0	4.7	4.7
65°	3.0	3.3	4.0	4.7	4.7
66°	3.0	3.3	4.0	4.7	4.7
67.5°	3.0	3.3	4.0	4.7	4.7
70°	3.0	3.3	4.0	4.3	4.3
72.5°	2.7	3.0	3.7	4.3	4.3
75°	2.7	3.0	3.7	4.3	4.3
77.5°	2.7	3.0	3.7	4.3	4.3
80°	2.7	3.0	3.7	4.0	4.3
82.5°	2.3	3.0	3.3	4.0	4.0
85°	2.3	2.7	3.3	3.7	4.0
87.5°	2.0	2.3	2.7	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)