

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: P153515

Luminaire Tested: **TLM-F03-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F03-LED-E1-SLR
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6891.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

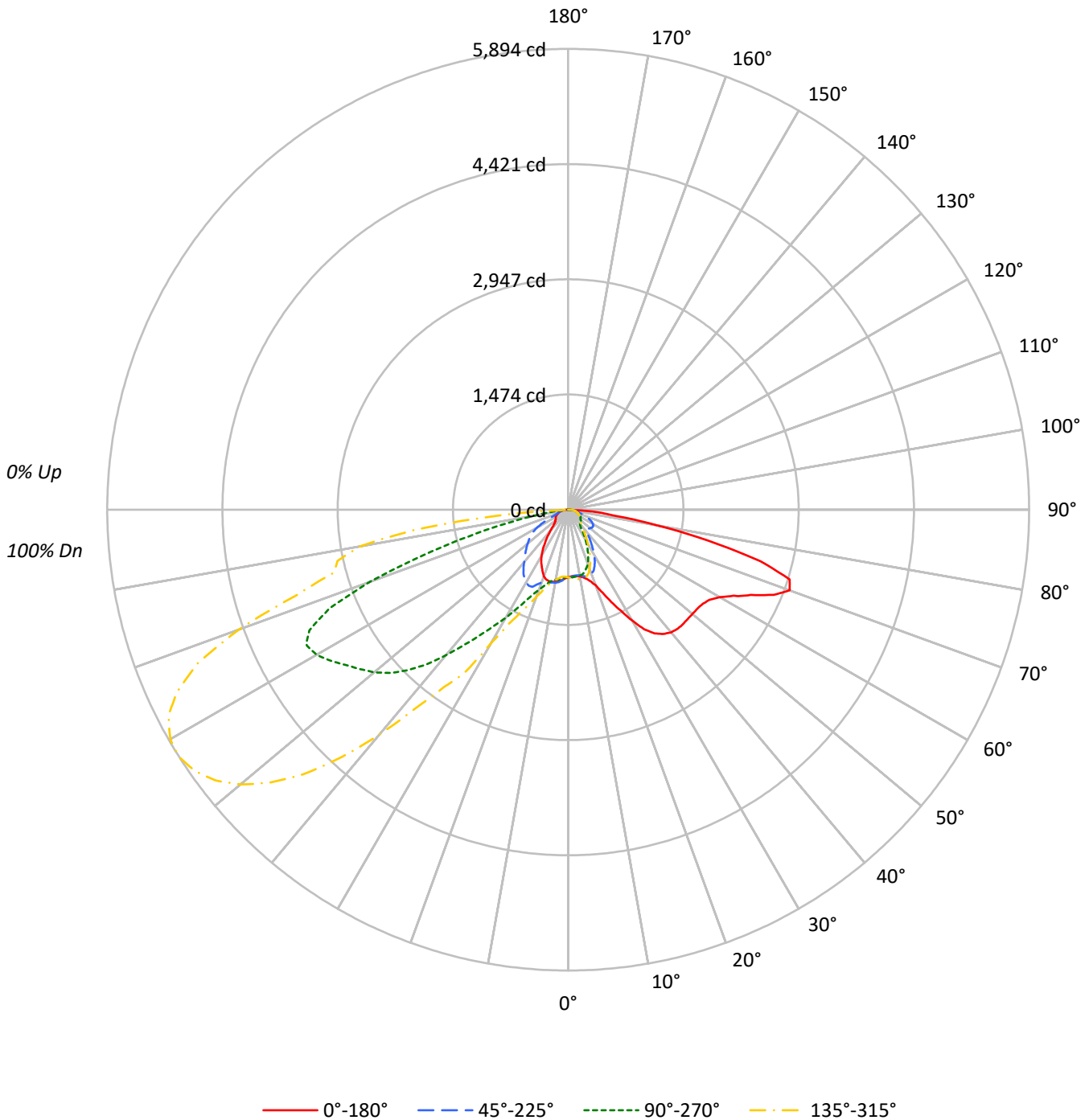
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18643	18643	18643	18643
5°	18321	18643	19533	19125
10°	18948	18714	20411	19886
15°	20442	18215	21104	21489
20°	23622	16795	20804	24946
25°	30924	14178	18981	30552
30°	40755	10980	16931	39646
35°	50766	7506	13561	51310
40°	57534	6565	9929	68230
45°	63085	6887	7465	88366
50°	69451	7050	7134	108324
55°	78732	7218	7281	129979
60°	96285	7927	7927	159840
65°	131326	8242	8369	185994
70°	189660	8730	8831	169292
75°	211553	9199	9748	109586
80°	144615	9930	11158	53222
85°	93787	12227	13462	25886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.2
10°-20°	262.5	3.8
20°-30°	466.4	6.8
30°-40°	734.5	10.7
40°-50°	1080.9	15.7
50°-60°	1435.8	20.8
60°-70°	1581.5	23.0
70°-80°	992.2	14.4
80°-90°	252.7	3.7
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°	813.3	11.8
0°-40°	1547.7	22.5
0°-60°	4064.5	59.0
0°-90°	6891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6891.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	848	863	904	885	848	82
15°	917	817	947	964	917	266
25°	1302	597	799	1286	1302	614
35°	1932	286	516	1952	1932	1197
45°	2072	226	245	2902	2072	1602
55°	2098	192	194	3463	2098	1903
65°	2578	162	164	3651	2578	2596
75°	2543	111	117	1318	2543	2487
85°	380	50	54	105	380	439
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°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	854.4	856.9	856.1	856.1	857.7	856.9	856.9	857.7	857.7	860.2	863.5
5°	847.8	847.0	845.3	847.0	847.0	847.0	843.7	846.2	847.0	848.6	848.6
7.5°	856.1	853.6	850.3	851.1	851.1	849.5	847.0	847.8	847.0	847.0	846.2
10°	866.8	861.0	856.9	856.9	856.9	855.2	851.1	853.6	853.6	852.8	853.6
12.5°	885.8	879.2	874.2	872.6	872.6	870.1	866.8	870.1	868.5	868.5	866.8
15°	917.2	909.7	903.9	899.0	899.8	899.8	895.7	893.2	889.9	885.8	877.5
17.5°	964.2	956.0	948.5	944.4	945.2	939.4	927.9	916.3	900.6	885.0	867.6
20°	1031.1	1028.6	1018.7	1014.6	1004.7	990.6	958.4	931.2	900.6	870.9	841.2
22.5°	1146.7	1135.1	1125.2	1109.5	1076.5	1037.7	984.0	936.1	888.3	846.2	806.5
25°	1301.9	1281.2	1232.5	1184.6	1116.9	1047.6	974.9	913.0	853.6	798.3	749.6
27.5°	1454.6	1391.8	1305.2	1218.5	1119.4	1028.6	937.8	864.3	795.0	734.7	681.1
30°	1639.5	1533.8	1400.9	1263.9	1123.5	1001.4	892.4	806.5	726.5	662.9	606.8
32.5°	1812.9	1660.1	1485.9	1306.0	1132.6	975.8	840.4	743.0	660.4	580.3	525.0
35°	1931.7	1733.6	1522.3	1310.1	1110.3	927.1	775.2	660.4	577.9	503.6	438.4
37.5°	2002.7	1765.8	1523.9	1280.4	1058.3	861.0	692.6	578.7	502.7	431.7	380.6
40°	2047.3	1773.2	1502.5	1237.5	992.3	777.6	610.1	507.7	438.4	381.4	341.8
42.5°	2068.8	1761.7	1467.8	1183.0	925.4	703.3	552.3	455.7	395.4	355.0	325.3
45°	2072.1	1741.0	1430.6	1133.4	866.0	649.7	512.7	434.2	384.7	350.8	321.1
47.5°	2072.1	1722.9	1400.9	1097.1	827.2	626.6	509.3	443.3	394.6	356.6	321.1
50°	2073.7	1717.1	1388.5	1079.0	814.0	639.0	537.4	471.4	416.1	366.5	320.3
52.5°	2081.1	1724.5	1398.4	1093.0	837.9	688.5	590.3	513.5	444.1	378.1	320.3
55°	2097.7	1749.3	1440.5	1141.7	902.3	763.6	653.8	558.9	466.4	383.0	315.4
57.5°	2143.9	1812.0	1517.3	1235.8	1012.1	850.3	711.6	591.1	474.7	378.9	305.4
60°	2236.3	1936.7	1648.6	1367.9	1128.5	924.6	745.4	596.0	467.2	365.7	289.8
62.5°	2384.1	2079.5	1807.9	1511.5	1231.7	965.9	749.6	583.6	447.4	341.8	266.6
63°	2435.3	2115.0	1841.7	1538.8	1244.9	969.2	746.3	578.7	442.5	335.2	263.3
65°	2578.1	2264.4	1959.0	1634.5	1282.0	970.0	728.1	553.9	419.4	309.6	240.2
67.5°	2844.8	2460.9	2106.7	1709.7	1295.2	943.6	681.9	507.7	370.7	269.9	211.3
70°	3013.2	2570.7	2163.7	1711.3	1256.4	868.5	601.8	432.6	308.7	223.7	181.6
72.5°	2969.4	2462.5	2013.5	1556.9	1088.9	725.6	483.8	340.1	241.1	179.1	151.1
75°	2543.4	2049.8	1642.8	1206.1	823.0	533.3	354.2	242.7	178.3	140.3	126.3
77.5°	1831.0	1475.2	1178.0	859.4	554.8	345.1	235.3	173.4	135.4	115.6	104.0
80°	1166.5	865.2	720.7	516.8	324.4	213.8	161.8	131.3	111.4	96.6	89.2
82.5°	609.2	426.8	346.7	264.2	180.0	141.2	118.9	107.3	91.6	80.1	75.9
85°	379.7	251.8	186.6	130.4	90.0	80.9	74.3	72.6	65.2	57.8	55.3
87.5°	42.9	38.8	40.5	25.6	19.0	20.6	19.8	26.4	25.6	19.0	19.8
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	860.2	861.8	861.8	864.3	864.3	866.0	867.6	867.6	869.3	870.1	871.8
5°	850.3	850.3	850.3	853.6	854.4	859.4	861.0	862.7	864.3	870.1	873.4
7.5°	847.8	844.5	846.2	846.2	848.6	852.8	856.9	859.4	861.8	869.3	874.2
10°	852.8	850.3	847.8	847.8	848.6	850.3	853.6	856.1	857.7	865.2	869.3
12.5°	866.0	860.2	855.2	851.1	847.8	847.0	845.3	846.2	847.8	851.9	857.7
15°	868.5	857.7	847.0	836.3	828.0	823.0	818.9	817.3	817.3	819.7	826.4
17.5°	851.9	833.8	818.1	804.1	795.0	785.9	781.8	778.5	776.8	780.1	780.9
20°	816.4	795.0	773.5	757.0	740.5	738.0	731.4	733.1	734.7	739.7	742.1
22.5°	767.7	742.1	715.7	698.4	685.2	673.6	666.2	669.5	672.0	676.9	679.4
25°	708.3	671.2	643.1	625.7	611.7	601.8	593.6	596.9	593.6	599.3	608.4
27.5°	638.1	594.4	564.7	544.8	534.9	526.7	518.4	518.4	526.7	526.7	534.1
30°	553.1	520.9	482.1	461.5	449.1	444.1	443.3	441.7	447.4	450.7	459.0
32.5°	473.0	433.4	396.3	376.4	365.7	359.9	360.8	361.6	364.1	369.0	382.2
35°	392.1	357.5	331.0	308.7	298.0	287.3	287.3	285.6	288.1	293.9	309.6
37.5°	340.1	309.6	288.9	271.6	260.9	254.3	248.5	246.0	246.0	248.5	254.3
40°	311.2	288.9	269.9	255.1	245.2	239.4	236.1	233.6	232.0	232.0	232.8
42.5°	298.0	274.9	255.9	242.7	235.3	232.0	231.1	230.3	227.8	227.0	226.2
45°	291.4	265.0	243.5	232.8	227.0	225.4	226.2	226.2	225.4	223.7	220.4
47.5°	286.5	255.9	234.4	224.5	222.1	222.1	222.1	222.1	221.2	220.4	217.9
50°	278.2	241.9	218.8	211.3	209.7	209.7	210.5	210.5	212.2	210.5	208.9
52.5°	269.1	228.7	205.6	199.0	198.1	197.3	197.3	197.3	198.1	198.1	197.3
55°	259.2	218.8	199.0	194.0	194.8	194.0	193.2	192.3	192.3	191.5	189.9
57.5°	249.3	210.5	194.0	190.7	191.5	191.5	189.9	188.2	187.4	184.9	183.3
60°	234.4	199.0	184.1	182.4	184.9	184.9	184.9	184.1	184.1	183.3	179.1
62.5°	214.6	182.4	170.9	171.7	172.5	174.2	174.2	174.2	174.2	172.5	168.4
63°	210.5	179.1	168.4	168.4	170.9	170.9	171.7	170.9	171.7	170.1	165.1
65°	194.0	168.4	160.2	161.0	162.6	162.6	162.6	161.8	161.8	159.3	156.8
67.5°	175.0	155.2	150.2	151.1	151.9	153.5	152.7	152.7	153.5	151.9	149.4
70°	153.5	141.2	137.9	138.7	139.5	139.5	138.7	138.7	139.5	137.9	135.4
72.5°	137.0	132.1	129.6	129.6	128.0	128.0	126.3	125.5	124.7	124.7	122.2
75°	115.6	114.7	115.6	117.2	115.6	113.9	113.1	110.6	109.0	109.0	108.1
77.5°	99.1	99.1	100.7	103.2	104.0	104.0	101.5	97.4	96.6	96.6	96.6
80°	85.9	84.2	84.2	86.7	89.2	88.3	84.2	80.1	80.1	84.2	85.0
82.5°	75.1	75.1	72.6	73.5	72.6	71.8	67.7	65.2	64.4	67.7	71.0
85°	59.4	60.3	59.4	58.6	57.8	55.3	52.0	49.5	48.7	52.0	57.0
87.5°	23.9	23.1	22.3	23.1	22.3	23.9	23.1	21.5	20.6	23.1	28.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	872.6	874.2	875.9	875.9	877.5	876.7	877.5	878.4	878.4	879.2	879.2
5°	877.5	880.0	883.3	886.6	887.4	889.9	892.4	890.7	893.2	896.5	896.5
7.5°	879.2	885.0	887.4	892.4	893.2	896.5	902.3	898.2	903.1	905.6	906.4
10°	876.7	882.5	886.6	892.4	894.9	900.6	906.4	904.8	910.6	914.7	915.5
12.5°	861.8	867.6	876.7	885.0	891.6	900.6	911.4	908.1	916.3	921.3	923.8
15°	833.0	838.7	848.6	861.8	874.2	888.3	902.3	904.8	913.0	918.8	921.3
17.5°	787.6	795.0	805.7	819.7	835.4	859.4	877.5	886.6	898.2	901.5	905.6
20°	745.4	752.9	759.5	767.7	779.3	802.4	826.4	844.5	859.4	871.8	875.1
22.5°	689.3	695.9	704.2	710.8	719.0	735.5	755.4	776.0	799.1	806.5	814.8
25°	621.6	625.7	637.3	641.4	647.2	661.2	676.9	691.8	714.1	729.8	733.9
27.5°	549.0	553.1	563.8	566.3	573.7	586.9	598.5	604.3	624.9	641.4	654.6
30°	464.8	475.5	488.7	490.4	498.6	506.9	517.6	523.4	542.4	559.7	576.2
32.5°	392.1	402.9	413.6	420.2	424.3	430.9	441.7	447.4	465.6	481.3	497.8
35°	317.8	331.0	342.6	351.7	355.0	363.2	371.5	377.3	396.3	410.3	421.8
37.5°	261.7	271.6	284.0	293.1	302.1	307.9	317.8	326.1	337.6	345.1	357.5
40°	234.4	239.4	246.0	253.4	260.9	267.5	274.9	281.5	288.9	298.8	307.1
42.5°	225.4	226.2	226.2	228.7	232.8	236.1	242.7	247.7	252.6	260.0	264.2
45°	218.8	217.9	216.3	214.6	215.5	217.1	221.2	224.5	230.3	233.6	234.4
47.5°	215.5	212.2	208.9	206.4	205.6	206.4	209.7	213.0	216.3	218.8	219.6
50°	204.7	202.3	197.3	194.0	192.3	194.0	198.1	199.8	203.1	205.6	206.4
52.5°	194.0	190.7	187.4	184.1	184.1	184.9	188.2	191.5	194.8	195.6	197.3
55°	187.4	182.4	179.1	176.7	175.0	177.5	180.0	184.1	188.2	189.0	190.7
57.5°	180.8	175.8	172.5	170.1	168.4	170.9	173.4	179.1	184.1	184.1	184.1
60°	176.7	172.5	167.6	165.1	162.6	165.1	168.4	174.2	179.1	178.3	177.5
62.5°	165.1	161.0	158.5	158.5	156.0	160.2	163.5	170.1	170.9	169.2	167.6
63°	161.8	158.5	156.8	156.8	155.2	159.3	162.6	168.4	168.4	166.8	165.1
65°	153.5	151.1	149.4	151.1	151.1	155.2	156.0	160.2	159.3	156.8	156.0
67.5°	146.9	145.3	143.6	143.6	143.6	144.5	145.3	146.9	146.1	145.3	146.1
70°	136.2	135.4	133.7	133.7	132.9	132.9	132.9	133.7	133.7	134.6	135.4
72.5°	123.0	121.4	121.4	122.2	120.5	121.4	122.2	121.4	123.0	123.0	123.8
75°	108.1	107.3	109.0	110.6	109.8	109.8	110.6	110.6	111.4	111.4	112.3
77.5°	96.6	97.4	98.2	99.9	100.7	100.7	100.7	99.9	100.7	100.7	101.5
80°	85.9	87.5	89.2	90.8	91.6	91.6	91.6	90.8	90.8	90.8	90.8
82.5°	77.6	80.1	81.7	82.6	82.6	82.6	82.6	82.6	82.6	80.9	79.3
85°	65.2	70.2	70.2	71.0	68.5	66.9	65.2	66.0	66.9	63.6	62.7
87.5°	33.0	33.0	34.7	36.3	37.1	37.1	42.1	39.6	38.8	38.0	36.3
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: P153515

CATALOG NUMBER: TLM-F03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	880.0	879.2	880.8	879.2	880.0	880.8	879.2	881.7	883.3	880.8	878.4
5°	898.2	898.2	902.3	903.9	904.8	909.7	907.3	908.9	910.6	909.7	910.6
7.5°	909.7	913.0	917.2	921.3	922.1	926.2	925.4	927.9	929.5	933.7	933.7
10°	919.6	923.8	929.5	933.7	937.8	941.1	942.7	947.7	948.5	951.8	951.8
12.5°	928.7	933.7	939.4	946.1	950.2	956.8	957.6	965.0	967.5	968.3	965.9
15°	927.1	932.8	939.4	946.9	954.3	962.6	967.5	974.9	979.1	980.7	976.6
17.5°	911.4	916.3	924.6	934.5	943.6	954.3	963.4	974.1	980.7	982.4	981.5
20°	880.8	884.1	894.9	908.1	918.8	935.3	948.5	965.0	975.8	984.0	986.5
22.5°	820.6	828.8	839.6	854.4	870.1	890.7	909.7	933.7	956.8	976.6	996.4
25°	747.9	762.8	779.3	799.1	818.1	839.6	861.0	888.3	922.1	963.4	1010.4
27.5°	674.5	700.0	720.7	746.3	768.6	790.0	814.0	843.7	880.8	930.4	990.6
30°	600.2	629.0	651.3	681.1	710.8	739.7	763.6	795.0	831.3	881.7	947.7
32.5°	520.9	549.8	576.2	603.5	636.5	671.2	700.0	738.8	777.6	829.7	896.5
35°	439.2	464.8	487.1	516.0	552.3	589.4	627.4	672.0	714.1	768.6	839.6
37.5°	368.2	386.3	407.8	433.4	461.5	501.1	544.0	596.9	644.7	704.2	776.8
40°	309.6	319.5	331.9	353.3	378.9	417.7	459.8	516.0	573.7	639.0	709.1
42.5°	264.2	269.1	272.4	286.5	307.1	345.1	385.5	440.0	503.6	574.6	645.6
45°	234.4	236.9	237.8	245.2	260.0	293.1	335.2	381.4	442.5	511.8	586.1
47.5°	220.4	222.9	224.5	226.2	235.3	260.9	298.8	342.6	398.7	462.3	538.2
50°	208.9	211.3	213.8	213.0	217.1	233.6	265.8	306.3	359.1	417.7	492.8
52.5°	197.3	199.0	199.0	199.0	201.4	212.2	235.3	272.4	321.1	376.4	450.7
55°	190.7	192.3	193.2	194.0	194.8	200.6	217.9	247.7	289.8	340.9	407.8
57.5°	184.1	184.9	186.6	187.4	189.0	192.3	203.1	224.5	260.0	303.0	359.1
60°	178.3	180.0	183.3	184.1	185.7	186.6	191.5	204.7	227.8	260.9	306.3
62.5°	169.2	171.7	175.0	175.8	177.5	178.3	179.1	186.6	197.3	217.1	251.0
63°	166.8	169.2	173.4	174.2	175.0	175.0	175.8	180.8	190.7	208.0	232.8
65°	157.7	161.0	163.5	164.3	165.1	165.1	164.3	165.9	166.8	174.2	189.0
67.5°	147.8	150.2	151.9	152.7	151.9	152.7	151.9	150.2	148.6	150.2	156.8
70°	137.9	139.5	139.5	140.3	141.2	142.0	140.3	138.7	137.0	136.2	140.3
72.5°	126.3	128.0	128.0	128.8	128.8	130.4	130.4	129.6	129.6	130.4	131.3
75°	114.7	116.4	115.6	117.2	117.2	119.7	119.7	120.5	122.2	121.4	120.5
77.5°	104.0	104.8	104.8	105.7	106.5	110.6	113.1	113.9	113.9	112.3	110.6
80°	92.5	92.5	90.8	90.0	90.8	94.9	99.9	100.7	103.2	102.4	103.2
82.5°	77.6	74.3	71.8	71.8	73.5	75.9	77.6	79.3	80.9	80.9	82.6
85°	59.4	56.1	53.7	54.5	57.0	57.8	57.0	57.0	60.3	62.7	60.3
87.5°	35.5	32.2	30.5	28.1	28.9	31.4	30.5	28.1	28.9	23.1	21.5
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: P153515

CATALOG NUMBER: TLM-F03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	880.0	879.2	877.5	875.1	874.2	872.6	873.4	870.9	869.3	867.6	865.2
5°	910.6	910.6	905.6	905.6	903.1	902.3	896.5	894.0	889.1	890.7	885.0
7.5°	932.0	934.5	928.7	927.9	924.6	923.8	916.3	913.9	909.7	908.1	903.1
10°	947.7	947.7	940.3	934.5	930.4	926.2	918.8	915.5	912.2	913.0	909.7
12.5°	960.1	954.3	943.6	935.3	929.5	925.4	919.6	917.2	916.3	922.1	922.9
15°	970.0	961.7	948.5	942.7	937.8	937.0	937.0	939.4	945.2	956.0	964.2
17.5°	975.8	970.8	964.2	962.6	970.8	975.8	982.4	989.8	998.1	1012.9	1022.0
20°	986.5	989.8	994.8	1001.4	1014.6	1027.0	1035.2	1045.9	1055.8	1074.0	1088.9
22.5°	1014.6	1033.6	1049.2	1062.5	1082.3	1099.6	1110.3	1125.2	1132.6	1145.0	1168.1
25°	1050.9	1089.7	1122.7	1150.8	1181.3	1199.5	1214.3	1233.3	1244.9	1265.5	1286.2
27.5°	1040.2	1095.5	1145.0	1197.0	1239.1	1286.2	1319.2	1350.6	1370.4	1400.9	1428.2
30°	1007.1	1073.2	1140.0	1208.6	1275.4	1343.1	1405.9	1462.8	1506.6	1550.3	1594.9
32.5°	962.6	1038.5	1120.2	1204.4	1291.9	1386.1	1472.7	1558.6	1631.2	1694.8	1756.7
35°	911.4	997.2	1082.3	1186.3	1294.4	1414.1	1534.7	1653.5	1764.1	1876.4	1952.4
37.5°	850.3	937.8	1032.7	1152.4	1279.6	1427.3	1580.9	1736.1	1892.9	2044.0	2175.3
40°	785.1	874.2	974.1	1103.7	1247.4	1419.1	1610.6	1819.5	2034.9	2253.7	2427.9
42.5°	727.3	818.9	927.9	1059.1	1215.2	1408.3	1634.5	1891.3	2154.6	2425.4	2681.3
45°	671.2	771.9	886.6	1027.8	1201.1	1416.6	1670.0	1958.1	2261.9	2590.5	2902.5
47.5°	620.8	723.2	834.6	989.0	1180.5	1420.7	1704.7	2025.0	2363.5	2719.3	3089.9
50°	575.4	674.5	784.2	939.4	1148.3	1418.3	1736.1	2085.3	2451.0	2820.8	3234.4
52.5°	530.8	631.5	743.8	891.6	1108.7	1404.2	1750.9	2134.8	2531.9	2923.2	3350.8
55°	487.1	586.1	699.2	846.2	1056.7	1367.9	1749.3	2167.0	2596.3	3019.8	3463.1
57.5°	435.9	530.0	640.6	795.8	1001.4	1311.8	1724.5	2181.9	2651.6	3115.5	3597.6
60°	372.3	460.6	567.1	722.3	928.7	1239.9	1672.5	2173.6	2683.8	3186.5	3712.4
62.5°	293.9	370.7	468.1	620.0	837.9	1136.7	1575.1	2098.5	2632.6	3176.6	3766.0
63°	277.4	350.0	445.0	595.2	799.1	1108.7	1546.2	2068.8	2607.8	3156.0	3758.6
65°	222.9	269.9	345.9	480.5	668.7	970.8	1402.6	1916.0	2474.9	3010.7	3651.3
67.5°	170.9	194.8	235.3	329.4	473.0	763.6	1135.9	1623.8	2148.0	2651.6	3305.4
70°	146.1	156.8	174.2	218.8	300.5	482.1	797.5	1211.0	1665.1	2101.8	2689.6
72.5°	132.9	137.9	146.9	165.9	206.4	288.9	508.5	788.4	1132.6	1498.3	1952.4
75°	122.2	126.3	133.7	143.6	158.5	192.3	289.8	482.1	736.4	984.0	1317.5
77.5°	111.4	113.9	122.2	131.3	141.2	158.5	191.5	277.4	423.5	580.3	794.2
80°	102.4	100.7	106.5	121.4	131.3	141.2	151.1	180.0	241.1	317.8	429.3
82.5°	81.7	83.4	88.3	103.2	107.3	104.8	106.5	111.4	134.6	146.9	219.6
85°	55.3	51.2	50.4	52.0	52.0	49.5	49.5	48.7	53.7	61.1	104.8
87.5°	14.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P153515

CATALOG NUMBER: TLM-F03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	863.5	862.7	863.5	859.4	859.4	858.5	857.7	856.1	856.1	852.8	855.2
5°	880.0	878.4	875.1	870.1	867.6	864.3	864.3	861.0	858.5	855.2	856.1
7.5°	899.0	899.8	894.0	889.9	888.3	885.0	885.8	880.8	881.7	879.2	877.5
10°	909.7	909.7	911.4	910.6	912.2	912.2	914.7	911.4	909.7	907.3	907.3
12.5°	927.1	930.4	937.0	937.0	941.9	943.6	944.4	946.1	942.7	941.1	935.3
15°	970.0	978.2	984.0	992.3	1002.2	1005.5	1005.5	1002.2	1000.5	998.1	987.3
17.5°	1041.0	1059.1	1064.1	1077.3	1079.0	1083.1	1094.6	1088.0	1083.9	1066.6	1063.3
20°	1113.6	1136.7	1159.9	1176.4	1184.6	1201.1	1203.6	1200.3	1183.8	1167.3	1159.9
22.5°	1201.1	1235.8	1262.2	1287.8	1300.2	1308.5	1326.6	1322.5	1309.3	1284.5	1274.6
25°	1325.0	1367.9	1396.0	1427.3	1443.8	1452.1	1470.3	1470.3	1456.2	1448.8	1448.0
27.5°	1481.0	1533.8	1580.1	1590.8	1633.7	1643.6	1661.0	1661.0	1647.7	1638.7	1682.4
30°	1654.4	1709.7	1789.7	1843.4	1895.4	1946.6	1945.8	1949.1	1964.7	1973.0	1992.0
32.5°	1827.7	1896.2	1981.3	2097.7	2209.1	2304.0	2427.0	2505.5	2481.5	2414.7	2388.2
35°	2038.2	2114.2	2217.4	2334.6	2538.5	2661.5	2720.9	2763.0	2768.0	2777.1	2796.1
37.5°	2272.7	2399.8	2519.5	2652.4	2765.5	2914.9	3052.8	3163.4	3189.0	3241.0	3211.3
40°	2569.0	2711.0	2836.5	3008.2	3160.1	3340.1	3537.4	3689.3	3750.4	3730.5	3582.0
42.5°	2879.4	3055.3	3202.2	3404.5	3601.8	3839.5	4043.4	4255.6	4293.6	4140.8	3918.8
45°	3165.1	3383.0	3565.4	3776.0	4017.0	4301.8	4574.2	4792.2	4784.7	4523.1	4225.9
47.5°	3421.8	3689.3	3912.2	4186.2	4445.5	4784.7	5097.6	5258.6	5163.7	4854.1	4490.0
50°	3634.0	3967.5	4242.4	4519.7	4849.1	5257.8	5559.1	5649.9	5466.6	5129.8	4746.8
52.5°	3804.8	4223.4	4532.1	4851.6	5267.7	5697.8	5957.0	5923.1	5686.2	5340.3	4958.9
55°	3949.3	4419.0	4787.2	5164.5	5680.4	6076.7	6249.2	6158.4	5827.4	5476.5	5104.2
57.5°	4098.7	4608.9	5021.7	5459.2	6033.8	6373.9	6469.6	6283.1	5894.2	5528.5	5167.0
60°	4248.2	4767.4	5228.9	5716.8	6301.2	6616.6	6590.2	6311.1	5874.4	5490.6	5124.9
62.5°	4348.9	4861.5	5349.4	5875.3	6501.8	6740.4	6578.6	6211.2	5759.7	5341.1	4999.4
63°	4351.3	4864.8	5356.8	5886.0	6524.1	6744.5	6556.3	6175.8	5723.4	5310.6	4962.2
65°	4299.3	4802.9	5290.8	5837.3	6505.1	6649.6	6364.0	5966.1	5516.2	5099.3	4769.1
67.5°	4033.5	4547.0	4977.9	5493.0	6165.0	6206.3	5848.8	5527.7	5123.2	4691.5	4346.4
70°	3497.7	3924.5	4347.2	4777.3	5341.1	5333.7	4997.7	4834.3	4480.1	3988.1	3711.6
72.5°	2782.0	3165.1	3462.3	3750.4	4121.8	4046.7	3830.4	3875.8	3646.3	3279.0	3114.7
75°	2065.5	2486.5	2631.8	2749.0	2905.8	2906.7	2966.1	3094.9	3091.6	2887.7	2680.5
77.5°	1354.7	1815.3	1864.0	1958.1	2146.4	2402.3	2666.4	2950.4	3021.4	2860.4	2554.2
80°	755.4	1234.2	1178.0	1258.9	1462.0	1809.6	2199.2	2512.9	2697.8	2607.8	2283.4
82.5°	386.3	711.6	680.2	792.5	956.8	1258.9	1516.5	1757.5	1975.5	1963.1	1840.1
85°	200.6	389.6	443.3	501.9	584.5	692.6	790.0	860.2	951.0	1111.2	1165.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	59.4	42.9	118.1	168.4
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: P153515

CATALOG NUMBER: TLM-F03-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.0	866.0	866.0	866.0	866.0	866.0	866.0
2.5°	856.1	856.9	855.2	855.2	856.1	856.1	854.4
5°	854.4	854.4	852.8	851.1	849.5	849.5	847.8
7.5°	873.4	873.4	867.6	865.2	861.0	857.7	856.1
10°	901.5	896.5	889.9	885.0	878.4	870.9	866.8
12.5°	929.5	922.1	913.9	906.4	898.2	889.9	885.8
15°	975.8	965.9	955.1	946.1	934.5	922.1	917.2
17.5°	1046.8	1031.1	1017.0	1003.8	983.2	974.1	964.2
20°	1140.9	1117.8	1099.6	1077.3	1051.7	1043.5	1031.1
22.5°	1254.8	1235.0	1198.7	1182.2	1156.6	1144.2	1146.7
25°	1428.2	1402.6	1360.5	1344.8	1342.3	1315.1	1301.9
27.5°	1654.4	1656.0	1617.2	1575.1	1552.0	1509.1	1454.6
30°	1976.3	1954.0	1908.6	1865.7	1811.2	1730.3	1639.5
32.5°	2366.0	2316.4	2241.3	2161.2	2064.6	1940.0	1812.9
35°	2746.5	2659.8	2540.1	2406.4	2266.9	2111.7	1931.7
37.5°	3080.9	2946.3	2767.2	2613.6	2416.3	2222.3	2002.7
40°	3386.3	3219.5	2988.4	2789.4	2556.7	2307.3	2047.3
42.5°	3681.8	3470.5	3187.4	2918.2	2654.9	2364.3	2068.8
45°	3963.3	3690.9	3354.9	3034.6	2726.7	2401.5	2072.1
47.5°	4179.6	3882.4	3505.2	3118.8	2776.2	2429.5	2072.1
50°	4380.2	4044.2	3619.9	3184.9	2822.5	2448.5	2073.7
52.5°	4536.3	4158.2	3694.2	3231.9	2858.8	2462.5	2081.1
55°	4649.4	4232.5	3743.8	3260.8	2885.2	2482.4	2097.7
57.5°	4728.6	4281.2	3771.0	3286.4	2917.4	2517.0	2143.9
60°	4766.6	4371.2	3816.4	3337.6	2972.7	2590.5	2236.3
62.5°	4737.7	4510.7	3946.0	3424.3	3049.5	2705.2	2384.1
63°	4725.3	4536.3	3981.5	3443.3	3066.8	2730.0	2435.3
65°	4628.7	4561.9	4127.6	3539.0	3149.4	2839.8	2578.1
67.5°	4329.1	4461.1	4250.6	3700.8	3326.9	3106.5	2844.8
70°	3941.1	4311.7	4228.3	3721.5	3440.0	3325.2	3013.2
72.5°	3476.3	3860.2	3782.6	3446.6	3315.3	3327.7	2969.4
75°	2735.8	3023.9	2972.7	2854.7	2881.1	2971.9	2543.4
77.5°	2191.8	2153.0	2034.9	2043.2	2195.9	2302.4	1831.0
80°	1790.6	1449.6	1296.1	1300.2	1566.8	1677.5	1166.5
82.5°	1703.9	1371.2	1116.9	975.8	1140.0	1097.9	609.2
85°	1213.5	1216.0	1008.8	819.7	794.2	675.3	379.7
87.5°	287.3	230.3	164.3	122.2	128.8	85.0	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)