

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: P153533

Luminaire Tested: **TLM-F05-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153533
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-F05-LED-E1-SLR-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

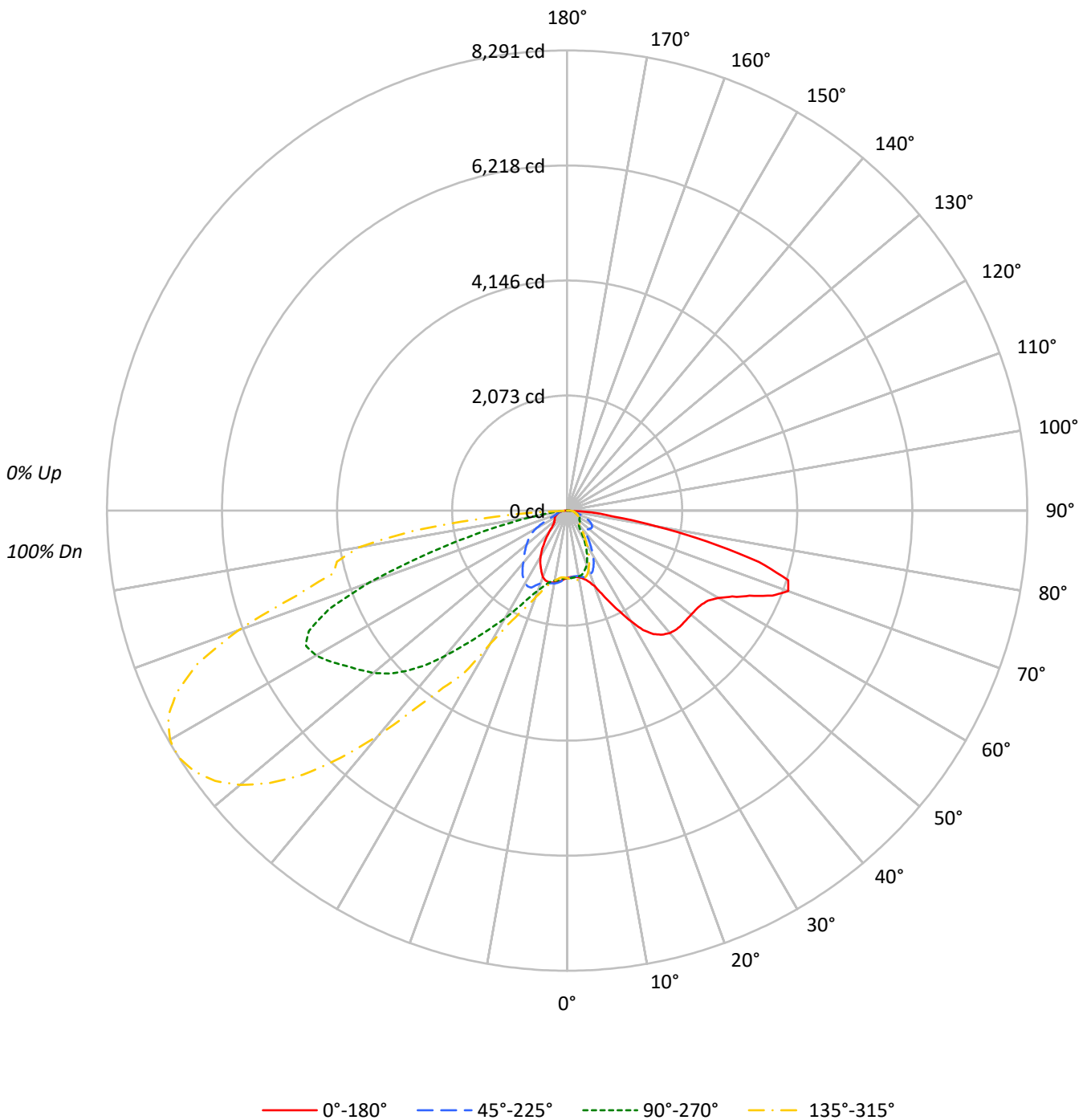
Lumens per Lamp: N/A
Luminaire Lumens: 9693.2 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 133.3
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°	15797	15797	15797	15797
5°	15525	15797	16553	16205
10°	16057	15858	17294	16852
15°	17321	15435	17882	18210
20°	20017	14231	17628	21139
25°	26205	12014	16085	25888
30°	34535	9304	14346	33596
35°	43019	6361	11491	43479
40°	48753	5563	8414	57817
45°	53457	5836	6326	74882
50°	58852	5974	6045	91793
55°	66715	6118	6170	110140
60°	81593	6718	6718	135444
65°	111284	6984	7092	157608
70°	160714	7398	7485	143454
75°	179267	7797	8263	92863
80°	122540	8409	9455	45094
85°	79488	10371	11398	21948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.2
10°-20°	369.3	3.8
20°-30°	656.1	6.8
30°-40°	1033.2	10.7
40°-50°	1520.5	15.7
50°-60°	2019.7	20.8
60°-70°	2224.7	23.0
70°-80°	1395.7	14.4
80°-90°	355.5	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°	1144.0	11.8
0°-40°	2177.1	22.5
0°-60°	5717.3	59.0
0°-90°	9693.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9693.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1193	1214	1272	1245	1193	115
15°	1290	1150	1332	1356	1290	374
25°	1831	840	1124	1809	1831	864
35°	2717	402	726	2746	2717	1684
45°	2915	318	345	4083	2915	2253
55°	2951	271	273	4871	2951	2676
65°	3626	228	231	5136	3626	3651
75°	3578	156	165	1853	3578	3499
85°	534	70	77	148	534	618
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°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1201.9	1205.4	1204.2	1204.2	1206.5	1205.4	1205.4	1206.5	1206.5	1210.0	1214.6
5°	1192.6	1191.4	1189.1	1191.4	1191.4	1191.4	1186.8	1190.3	1191.4	1193.7	1193.7
7.5°	1204.2	1200.7	1196.1	1197.2	1197.2	1194.9	1191.4	1192.6	1191.4	1191.4	1190.3
10°	1219.3	1211.2	1205.4	1205.4	1205.4	1203.0	1197.2	1200.7	1200.7	1199.5	1200.7
12.5°	1246.0	1236.7	1229.7	1227.4	1227.4	1223.9	1219.3	1223.9	1221.6	1221.6	1219.3
15°	1290.1	1279.7	1271.5	1264.6	1265.7	1265.7	1259.9	1256.4	1251.8	1246.0	1234.4
17.5°	1356.3	1344.7	1334.2	1328.4	1329.6	1321.5	1305.2	1289.0	1266.9	1244.8	1220.4
20°	1450.4	1446.9	1433.0	1427.1	1413.2	1393.5	1348.2	1309.9	1266.9	1225.1	1183.3
22.5°	1612.9	1596.7	1582.8	1560.7	1514.2	1459.7	1384.2	1316.8	1249.5	1190.3	1134.5
25°	1831.3	1802.2	1733.7	1666.4	1571.1	1473.6	1371.4	1284.3	1200.7	1122.9	1054.4
27.5°	2046.1	1957.8	1835.9	1714.0	1574.6	1446.9	1319.2	1215.8	1118.3	1033.5	958.0
30°	2306.2	2157.6	1970.6	1777.8	1580.4	1408.6	1255.3	1134.5	1021.9	932.5	853.5
32.5°	2550.1	2335.2	2090.2	1837.1	1593.2	1372.6	1182.1	1045.1	929.0	816.3	738.5
35°	2717.3	2438.6	2141.3	1842.9	1561.8	1304.1	1090.4	929.0	812.9	708.3	616.6
37.5°	2817.1	2483.9	2143.6	1801.1	1488.7	1211.2	974.3	814.0	707.2	607.3	535.3
40°	2879.8	2494.3	2113.4	1740.7	1395.8	1093.9	858.1	714.2	616.6	536.5	480.7
42.5°	2910.0	2478.1	2064.7	1664.0	1301.7	989.4	776.9	641.0	556.2	499.3	457.5
45°	2914.7	2449.0	2012.4	1594.4	1218.1	913.9	721.1	610.8	541.1	493.5	451.7
47.5°	2914.7	2423.5	1970.6	1543.3	1163.5	881.4	716.5	623.6	555.1	501.6	451.7
50°	2917.0	2415.3	1953.2	1517.7	1145.0	898.8	756.0	663.1	585.3	515.6	450.6
52.5°	2927.5	2425.8	1967.1	1537.5	1178.6	968.5	830.3	722.3	624.7	531.8	450.6
55°	2950.7	2460.6	2026.3	1606.0	1269.2	1074.1	919.7	786.1	656.1	538.8	443.6
57.5°	3015.7	2548.9	2134.3	1738.4	1423.7	1196.1	1001.0	831.4	667.7	533.0	429.7
60°	3145.8	2724.2	2319.0	1924.2	1587.4	1300.6	1048.6	838.4	657.3	514.4	407.6
62.5°	3353.6	2925.1	2543.1	2126.2	1732.5	1358.6	1054.4	821.0	629.4	480.7	375.1
63°	3425.6	2975.1	2590.7	2164.5	1751.1	1363.3	1049.7	814.0	622.4	471.5	370.4
65°	3626.5	3185.2	2755.6	2299.2	1803.4	1364.4	1024.2	779.2	589.9	435.5	337.9
67.5°	4001.6	3461.6	2963.4	2404.9	1822.0	1327.3	959.2	714.2	521.4	379.7	297.3
70°	4238.5	3616.1	3043.6	2407.2	1767.4	1221.6	846.5	608.5	434.3	314.7	255.5
72.5°	4176.9	3463.9	2832.2	2190.1	1531.7	1020.7	680.5	478.4	339.1	252.0	212.5
75°	3577.7	2883.3	2310.8	1696.6	1157.7	750.2	498.2	341.4	250.8	197.4	177.7
77.5°	2575.6	2075.1	1657.1	1208.8	780.3	485.4	330.9	243.9	190.4	162.6	146.3
80°	1640.8	1217.0	1013.8	726.9	456.4	300.8	227.6	184.6	156.8	135.9	125.4
82.5°	857.0	600.4	487.7	371.6	253.1	198.6	167.2	151.0	128.9	112.6	106.8
85°	534.2	354.2	262.4	183.5	126.6	113.8	104.5	102.2	91.7	81.3	77.8
87.5°	60.4	54.6	56.9	36.0	26.7	29.0	27.9	37.2	36.0	26.7	27.9
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°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1210.0	1212.3	1212.3	1215.8	1215.8	1218.1	1220.4	1220.4	1222.8	1223.9	1226.3
5°	1196.1	1196.1	1196.1	1200.7	1201.9	1208.8	1211.2	1213.5	1215.8	1223.9	1228.6
7.5°	1192.6	1187.9	1190.3	1190.3	1193.7	1199.5	1205.4	1208.8	1212.3	1222.8	1229.7
10°	1199.5	1196.1	1192.6	1192.6	1193.7	1196.1	1200.7	1204.2	1206.5	1217.0	1222.8
12.5°	1218.1	1210.0	1203.0	1197.2	1192.6	1191.4	1189.1	1190.3	1192.6	1198.4	1206.5
15°	1221.6	1206.5	1191.4	1176.3	1164.7	1157.7	1151.9	1149.6	1149.6	1153.1	1162.4
17.5°	1198.4	1172.8	1150.8	1131.0	1118.3	1105.5	1099.7	1095.0	1092.7	1097.4	1098.5
20°	1148.5	1118.3	1088.1	1064.8	1041.6	1038.1	1028.8	1031.2	1033.5	1040.5	1043.9
22.5°	1079.9	1043.9	1006.8	982.4	963.8	947.6	937.1	941.8	945.2	952.2	955.7
25°	996.3	944.1	904.6	880.2	860.5	846.5	834.9	839.6	834.9	843.1	855.8
27.5°	897.6	836.1	794.3	766.4	752.5	740.9	729.2	729.2	740.9	740.9	751.3
30°	778.0	732.7	678.2	649.1	631.7	624.7	623.6	621.3	629.4	634.0	645.6
32.5°	665.4	609.6	557.4	529.5	514.4	506.3	507.5	508.6	512.1	519.1	537.6
35°	551.6	502.8	465.7	434.3	419.2	404.1	404.1	401.8	405.3	413.4	435.5
37.5°	478.4	435.5	406.4	382.0	366.9	357.7	349.5	346.0	346.0	349.5	357.7
40°	437.8	406.4	379.7	358.8	344.9	336.8	332.1	328.6	326.3	326.3	327.5
42.5°	419.2	386.7	360.0	341.4	330.9	326.3	325.1	324.0	320.5	319.3	318.2
45°	409.9	372.8	342.6	327.5	319.3	317.0	318.2	318.2	317.0	314.7	310.0
47.5°	402.9	360.0	329.8	315.9	312.4	312.4	312.4	312.4	311.2	310.0	306.6
50°	391.3	340.2	307.7	297.3	295.0	295.0	296.1	296.1	298.4	296.1	293.8
52.5°	378.6	321.7	289.1	279.9	278.7	277.5	277.5	277.5	278.7	278.7	277.5
55°	364.6	307.7	279.9	272.9	274.0	272.9	271.7	270.6	270.6	269.4	267.1
57.5°	350.7	296.1	272.9	268.2	269.4	269.4	267.1	264.8	263.6	260.1	257.8
60°	329.8	279.9	259.0	256.6	260.1	260.1	260.1	259.0	259.0	257.8	252.0
62.5°	301.9	256.6	240.4	241.5	242.7	245.0	245.0	245.0	245.0	242.7	236.9
63°	296.1	252.0	236.9	236.9	240.4	240.4	241.5	240.4	241.5	239.2	232.2
65°	272.9	236.9	225.3	226.4	228.8	228.8	228.8	227.6	227.6	224.1	220.6
67.5°	246.2	218.3	211.3	212.5	213.7	216.0	214.8	214.8	216.0	213.7	210.2
70°	216.0	198.6	193.9	195.1	196.2	196.2	195.1	195.1	196.2	193.9	190.4
72.5°	192.8	185.8	182.3	182.3	180.0	180.0	177.7	176.5	175.3	175.3	171.9
75°	162.6	161.4	162.6	164.9	162.6	160.2	159.1	155.6	153.3	153.3	152.1
77.5°	139.3	139.3	141.7	145.2	146.3	146.3	142.8	137.0	135.9	135.9	135.9
80°	120.8	118.4	118.4	121.9	125.4	124.3	118.4	112.6	112.6	118.4	119.6
82.5°	105.7	105.7	102.2	103.3	102.2	101.0	95.2	91.7	90.6	95.2	99.9
85°	83.6	84.8	83.6	82.4	81.3	77.8	73.2	69.7	68.5	73.2	80.1
87.5°	33.7	32.5	31.4	32.5	31.4	33.7	32.5	30.2	29.0	32.5	39.5
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°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1227.4	1229.7	1232.1	1232.1	1234.4	1233.2	1234.4	1235.5	1235.5	1236.7	1236.7
5°	1234.4	1237.9	1242.5	1247.2	1248.3	1251.8	1255.3	1253.0	1256.4	1261.1	1261.1
7.5°	1236.7	1244.8	1248.3	1255.3	1256.4	1261.1	1269.2	1263.4	1270.4	1273.9	1275.0
10°	1233.2	1241.4	1247.2	1255.3	1258.8	1266.9	1275.0	1272.7	1280.8	1286.6	1287.8
12.5°	1212.3	1220.4	1233.2	1244.8	1254.1	1266.9	1282.0	1277.3	1289.0	1295.9	1299.4
15°	1171.7	1179.8	1193.7	1212.3	1229.7	1249.5	1269.2	1272.7	1284.3	1292.4	1295.9
17.5°	1107.8	1118.3	1133.4	1153.1	1175.2	1208.8	1234.4	1247.2	1263.4	1268.1	1273.9
20°	1048.6	1059.0	1068.3	1079.9	1096.2	1128.7	1162.4	1187.9	1208.8	1226.3	1230.9
22.5°	969.6	978.9	990.5	999.8	1011.4	1034.7	1062.5	1091.6	1124.1	1134.5	1146.1
25°	874.4	880.2	896.5	902.3	910.4	930.1	952.2	973.1	1004.5	1026.5	1032.3
27.5°	772.2	778.0	793.1	796.6	807.1	825.6	841.9	850.0	879.0	902.3	920.9
30°	653.8	668.9	687.4	689.8	701.4	713.0	728.1	736.2	762.9	787.3	810.5
32.5°	551.6	566.7	581.8	591.1	596.9	606.2	621.3	629.4	654.9	677.0	700.2
35°	447.1	465.7	481.9	494.7	499.3	510.9	522.6	530.7	557.4	577.1	593.4
37.5°	368.1	382.0	399.5	412.2	425.0	433.1	447.1	458.7	474.9	485.4	502.8
40°	329.8	336.8	346.0	356.5	366.9	376.2	386.7	396.0	406.4	420.4	432.0
42.5°	317.0	318.2	318.2	321.7	327.5	332.1	341.4	348.4	355.3	365.8	371.6
45°	307.7	306.6	304.2	301.9	303.1	305.4	311.2	315.9	324.0	328.6	329.8
47.5°	303.1	298.4	293.8	290.3	289.1	290.3	295.0	299.6	304.2	307.7	308.9
50°	288.0	284.5	277.5	272.9	270.6	272.9	278.7	281.0	285.7	289.1	290.3
52.5°	272.9	268.2	263.6	259.0	259.0	260.1	264.8	269.4	274.0	275.2	277.5
55°	263.6	256.6	252.0	248.5	246.2	249.7	253.1	259.0	264.8	265.9	268.2
57.5°	254.3	247.3	242.7	239.2	236.9	240.4	243.9	252.0	259.0	259.0	259.0
60°	248.5	242.7	235.7	232.2	228.8	232.2	236.9	245.0	252.0	250.8	249.7
62.5°	232.2	226.4	223.0	223.0	219.5	225.3	229.9	239.2	240.4	238.1	235.7
63°	227.6	223.0	220.6	220.6	218.3	224.1	228.8	236.9	236.9	234.6	232.2
65°	216.0	212.5	210.2	212.5	212.5	218.3	219.5	225.3	224.1	220.6	219.5
67.5°	206.7	204.4	202.1	202.1	202.1	203.2	204.4	206.7	205.5	204.4	205.5
70°	191.6	190.4	188.1	188.1	187.0	187.0	187.0	188.1	188.1	189.3	190.4
72.5°	173.0	170.7	170.7	171.9	169.5	170.7	171.9	170.7	173.0	173.0	174.2
75°	152.1	151.0	153.3	155.6	154.4	154.4	155.6	155.6	156.8	156.8	157.9
77.5°	135.9	137.0	138.2	140.5	141.7	141.7	141.7	140.5	141.7	141.7	142.8
80°	120.8	123.1	125.4	127.7	128.9	128.9	128.9	127.7	127.7	127.7	127.7
82.5°	109.2	112.6	115.0	116.1	116.1	116.1	116.1	116.1	116.1	113.8	111.5
85°	91.7	98.7	98.7	99.9	96.4	94.1	91.7	92.9	94.1	89.4	88.3
87.5°	46.4	46.4	48.8	51.1	52.3	52.3	59.2	55.7	54.6	53.4	51.1
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: P153533

CATALOG NUMBER: TLM-F05-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1237.9	1236.7	1239.0	1236.7	1237.9	1239.0	1236.7	1240.2	1242.5	1239.0	1235.5
5°	1263.4	1263.4	1269.2	1271.5	1272.7	1279.7	1276.2	1278.5	1280.8	1279.7	1280.8
7.5°	1279.7	1284.3	1290.1	1295.9	1297.1	1302.9	1301.7	1305.2	1307.5	1313.3	1313.3
10°	1293.6	1299.4	1307.5	1313.3	1319.2	1323.8	1326.1	1333.1	1334.2	1338.9	1338.9
12.5°	1306.4	1313.3	1321.5	1330.8	1336.6	1345.9	1347.0	1357.5	1361.0	1362.1	1358.6
15°	1304.1	1312.2	1321.5	1331.9	1342.4	1354.0	1361.0	1371.4	1377.2	1379.5	1373.7
17.5°	1282.0	1289.0	1300.6	1314.5	1327.3	1342.4	1355.2	1370.2	1379.5	1381.9	1380.7
20°	1239.0	1243.7	1258.8	1277.3	1292.4	1315.7	1334.2	1357.5	1372.6	1384.2	1387.7
22.5°	1154.3	1165.9	1181.0	1201.9	1223.9	1253.0	1279.7	1313.3	1345.9	1373.7	1401.6
25°	1052.1	1073.0	1096.2	1124.1	1150.8	1181.0	1211.2	1249.5	1297.1	1355.2	1421.3
27.5°	948.7	984.7	1013.8	1049.7	1081.1	1111.3	1145.0	1186.8	1239.0	1308.7	1393.5
30°	844.2	884.9	916.2	958.0	999.8	1040.5	1074.1	1118.3	1169.4	1240.2	1333.1
32.5°	732.7	773.4	810.5	848.9	895.3	944.1	984.7	1039.3	1093.9	1167.0	1261.1
35°	617.8	653.8	685.1	725.8	776.9	829.1	882.5	945.2	1004.5	1081.1	1181.0
37.5°	517.9	543.5	573.6	609.6	649.1	704.9	765.2	839.6	906.9	990.5	1092.7
40°	435.5	449.4	466.8	497.0	533.0	587.6	646.8	725.8	807.1	898.8	997.5
42.5°	371.6	378.6	383.2	402.9	432.0	485.4	542.3	618.9	708.3	808.2	908.1
45°	329.8	333.3	334.4	344.9	365.8	412.2	471.5	536.5	622.4	720.0	824.5
47.5°	310.0	313.5	315.9	318.2	330.9	366.9	420.4	481.9	560.9	650.3	757.1
50°	293.8	297.3	300.8	299.6	305.4	328.6	373.9	430.8	505.1	587.6	693.3
52.5°	277.5	279.9	279.9	279.9	283.3	298.4	330.9	383.2	451.7	529.5	634.0
55°	268.2	270.6	271.7	272.9	274.0	282.2	306.6	348.4	407.6	479.6	573.6
57.5°	259.0	260.1	262.4	263.6	265.9	270.6	285.7	315.9	365.8	426.2	505.1
60°	250.8	253.1	257.8	259.0	261.3	262.4	269.4	288.0	320.5	366.9	430.8
62.5°	238.1	241.5	246.2	247.3	249.7	250.8	252.0	262.4	277.5	305.4	353.0
63°	234.6	238.1	243.9	245.0	246.2	246.2	247.3	254.3	268.2	292.6	327.5
65°	221.8	226.4	229.9	231.1	232.2	232.2	231.1	233.4	234.6	245.0	265.9
67.5°	207.9	211.3	213.7	214.8	213.7	214.8	213.7	211.3	209.0	211.3	220.6
70°	193.9	196.2	196.2	197.4	198.6	199.7	197.4	195.1	192.8	191.6	197.4
72.5°	177.7	180.0	180.0	181.2	181.2	183.5	183.5	182.3	182.3	183.5	184.6
75°	161.4	163.7	162.6	164.9	164.9	168.4	168.4	169.5	171.9	170.7	169.5
77.5°	146.3	147.5	147.5	148.6	149.8	155.6	159.1	160.2	160.2	157.9	155.6
80°	130.1	130.1	127.7	126.6	127.7	133.5	140.5	141.7	145.2	144.0	145.2
82.5°	109.2	104.5	101.0	101.0	103.3	106.8	109.2	111.5	113.8	113.8	116.1
85°	83.6	79.0	75.5	76.6	80.1	81.3	80.1	80.1	84.8	88.3	84.8
87.5°	49.9	45.3	43.0	39.5	40.6	44.1	43.0	39.5	40.6	32.5	30.2
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: P153533

CATALOG NUMBER: TLM-F05-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1237.9	1236.7	1234.4	1230.9	1229.7	1227.4	1228.6	1225.1	1222.8	1220.4	1217.0
5°	1280.8	1280.8	1273.9	1273.9	1270.4	1269.2	1261.1	1257.6	1250.6	1253.0	1244.8
7.5°	1311.0	1314.5	1306.4	1305.2	1300.6	1299.4	1289.0	1285.5	1279.7	1277.3	1270.4
10°	1333.1	1333.1	1322.6	1314.5	1308.7	1302.9	1292.4	1287.8	1283.2	1284.3	1279.7
12.5°	1350.5	1342.4	1327.3	1315.7	1307.5	1301.7	1293.6	1290.1	1289.0	1297.1	1298.3
15°	1364.4	1352.8	1334.2	1326.1	1319.2	1318.0	1318.0	1321.5	1329.6	1344.7	1356.3
17.5°	1372.6	1365.6	1356.3	1354.0	1365.6	1372.6	1381.9	1392.3	1403.9	1424.8	1437.6
20°	1387.7	1392.3	1399.3	1408.6	1427.1	1444.6	1456.2	1471.3	1485.2	1510.8	1531.7
22.5°	1427.1	1453.9	1475.9	1494.5	1522.4	1546.8	1561.8	1582.8	1593.2	1610.6	1643.1
25°	1478.2	1532.8	1579.3	1618.7	1661.7	1687.3	1708.2	1734.9	1751.1	1780.2	1809.2
27.5°	1463.1	1540.9	1610.6	1683.8	1743.0	1809.2	1855.6	1899.8	1927.6	1970.6	2008.9
30°	1416.7	1509.6	1603.7	1700.0	1794.1	1889.3	1977.6	2057.7	2119.2	2180.8	2243.5
32.5°	1354.0	1460.8	1575.8	1694.2	1817.3	1949.7	2071.6	2192.4	2294.6	2384.0	2471.1
35°	1282.0	1402.8	1522.4	1668.7	1820.8	1989.2	2158.7	2325.9	2481.5	2639.5	2746.3
37.5°	1196.1	1319.2	1452.7	1621.1	1799.9	2007.8	2223.7	2442.1	2662.7	2875.2	3059.8
40°	1104.3	1229.7	1370.2	1552.6	1754.6	1996.1	2265.6	2559.3	2862.4	3170.1	3415.2
42.5°	1023.0	1151.9	1305.2	1489.9	1709.3	1981.1	2299.2	2660.4	3030.8	3411.7	3771.7
45°	944.1	1085.7	1247.2	1445.7	1689.6	1992.7	2349.2	2754.4	3181.8	3643.9	4082.9
47.5°	873.2	1017.2	1174.0	1391.1	1660.6	1998.5	2397.9	2848.5	3324.6	3825.1	4346.5
50°	809.4	948.7	1103.2	1321.5	1615.3	1995.0	2442.1	2933.3	3447.7	3967.9	4549.7
52.5°	746.7	888.3	1046.3	1254.1	1559.5	1975.2	2463.0	3002.9	3561.5	4111.9	4713.4
55°	685.1	824.5	983.6	1190.3	1486.4	1924.2	2460.6	3048.2	3652.1	4247.8	4871.3
57.5°	613.1	745.5	901.1	1119.4	1408.6	1845.2	2425.8	3069.1	3729.9	4382.5	5060.6
60°	523.7	648.0	797.8	1016.1	1306.4	1744.2	2352.6	3057.5	3775.1	4482.3	5222.0
62.5°	413.4	521.4	658.4	872.1	1178.6	1599.0	2215.6	2951.8	3703.1	4468.4	5297.5
63°	390.2	492.4	625.9	837.2	1124.1	1559.5	2175.0	2910.0	3668.3	4439.4	5287.1
65°	313.5	379.7	486.6	675.8	940.6	1365.6	1972.9	2695.2	3481.4	4235.0	5136.1
67.5°	240.4	274.0	330.9	463.3	665.4	1074.1	1597.8	2284.1	3021.5	3729.9	4649.5
70°	205.5	220.6	245.0	307.7	422.7	678.2	1121.7	1703.5	2342.2	2956.5	3783.3
72.5°	187.0	193.9	206.7	233.4	290.3	406.4	715.3	1109.0	1593.2	2107.6	2746.3
75°	171.9	177.7	188.1	202.1	223.0	270.6	407.6	678.2	1035.8	1384.2	1853.3
77.5°	156.8	160.2	171.9	184.6	198.6	223.0	269.4	390.2	595.7	816.3	1117.1
80°	144.0	141.7	149.8	170.7	184.6	198.6	212.5	253.1	339.1	447.1	603.8
82.5°	115.0	117.3	124.3	145.2	151.0	147.5	149.8	156.8	189.3	206.7	308.9
85°	77.8	72.0	70.8	73.2	73.2	69.7	69.7	68.5	75.5	85.9	147.5
87.5°	20.9	10.5	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: P153533

CATALOG NUMBER: TLM-F05-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1214.6	1213.5	1214.6	1208.8	1208.8	1207.7	1206.5	1204.2	1204.2	1199.5	1203.0
5°	1237.9	1235.5	1230.9	1223.9	1220.4	1215.8	1215.8	1211.2	1207.7	1203.0	1204.2
7.5°	1264.6	1265.7	1257.6	1251.8	1249.5	1244.8	1246.0	1239.0	1240.2	1236.7	1234.4
10°	1279.7	1279.7	1282.0	1280.8	1283.2	1283.2	1286.6	1282.0	1279.7	1276.2	1276.2
12.5°	1304.1	1308.7	1318.0	1318.0	1325.0	1327.3	1328.4	1330.8	1326.1	1323.8	1315.7
15°	1364.4	1376.1	1384.2	1395.8	1409.7	1414.4	1414.4	1409.7	1407.4	1403.9	1388.8
17.5°	1464.3	1489.9	1496.8	1515.4	1517.7	1523.5	1539.8	1530.5	1524.7	1500.3	1495.7
20°	1566.5	1599.0	1631.5	1654.7	1666.4	1689.6	1693.1	1688.4	1665.2	1642.0	1631.5
22.5°	1689.6	1738.4	1775.5	1811.5	1828.9	1840.5	1866.1	1860.3	1841.7	1806.9	1792.9
25°	1863.8	1924.2	1963.6	2007.8	2031.0	2042.6	2068.1	2068.1	2048.4	2038.0	2036.8
27.5°	2083.2	2157.6	2222.6	2237.7	2298.1	2312.0	2336.4	2336.4	2317.8	2305.0	2366.6
30°	2327.1	2404.9	2517.5	2593.0	2666.2	2738.2	2737.0	2741.7	2763.7	2775.3	2802.0
32.5°	2571.0	2667.3	2786.9	2950.7	3107.4	3241.0	3414.0	3524.3	3490.6	3396.6	3359.4
35°	2867.1	2973.9	3119.1	3283.9	3570.8	3743.8	3827.4	3886.6	3893.6	3906.4	3933.1
37.5°	3196.9	3375.7	3544.1	3731.0	3890.1	4100.3	4294.2	4449.8	4485.8	4559.0	4517.2
40°	3613.7	3813.5	3990.0	4231.5	4445.2	4698.3	4975.9	5189.5	5275.4	5247.6	5038.6
42.5°	4050.4	4297.7	4504.4	4788.9	5066.4	5400.9	5687.7	5986.1	6039.5	5824.7	5512.3
45°	4452.1	4758.7	5015.3	5311.4	5650.5	6051.1	6434.4	6740.9	6730.5	6362.4	5944.3
47.5°	4813.3	5189.5	5503.0	5888.6	6253.2	6730.5	7170.6	7397.0	7263.5	6828.0	6315.9
50°	5111.7	5580.9	5967.5	6357.7	6821.0	7395.8	7819.7	7947.4	7689.6	7215.9	6677.0
52.5°	5352.1	5940.8	6375.1	6824.5	7409.8	8014.8	8379.4	8331.8	7998.5	7512.0	6975.5
55°	5555.3	6216.0	6733.9	7264.6	7990.4	8547.8	8790.5	8662.7	8197.1	7703.6	7179.9
57.5°	5765.5	6483.1	7063.7	7679.2	8487.4	8965.8	9100.5	8838.1	8291.2	7776.7	7268.1
60°	5975.7	6706.1	7355.2	8041.5	8863.6	9307.2	9270.1	8877.6	8263.3	7723.3	7208.9
62.5°	6117.3	6838.5	7524.7	8264.4	9145.8	9481.4	9253.8	8737.1	8101.9	7513.1	7032.4
63°	6120.8	6843.1	7535.2	8279.5	9177.2	9487.2	9222.5	8687.1	8050.8	7470.2	6980.1
65°	6047.7	6756.0	7442.3	8211.0	9150.5	9353.7	8951.9	8392.2	7759.3	7172.9	6708.4
67.5°	5673.7	6396.0	7002.2	7726.8	8672.0	8730.1	8227.3	7775.6	7206.6	6599.2	6113.9
70°	4920.1	5520.5	6115.0	6720.0	7513.1	7502.7	7030.1	6800.1	6302.0	5609.9	5220.9
72.5°	3913.3	4452.1	4870.2	5275.4	5798.0	5692.3	5388.1	5452.0	5129.1	4612.4	4381.3
75°	2905.4	3497.6	3702.0	3866.9	4087.5	4088.7	4172.3	4353.4	4348.8	4062.0	3770.5
77.5°	1905.6	2553.5	2622.0	2754.4	3019.2	3379.2	3750.8	4150.2	4250.1	4023.6	3592.8
80°	1062.5	1736.0	1657.1	1770.9	2056.5	2545.4	3093.5	3534.8	3794.9	3668.3	3212.0
82.5°	543.5	1001.0	956.9	1114.8	1345.9	1770.9	2133.2	2472.2	2778.8	2761.4	2588.4
85°	282.2	548.1	623.6	706.0	822.1	974.3	1111.3	1210.0	1337.7	1563.0	1639.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	83.6	60.4	166.1	236.9
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: P153533

CATALOG NUMBER: TLM-F05-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1204.2	1205.4	1203.0	1203.0	1204.2	1204.2	1201.9
5°	1201.9	1201.9	1199.5	1197.2	1194.9	1194.9	1192.6
7.5°	1228.6	1228.6	1220.4	1217.0	1211.2	1206.5	1204.2
10°	1268.1	1261.1	1251.8	1244.8	1235.5	1225.1	1219.3
12.5°	1307.5	1297.1	1285.5	1275.0	1263.4	1251.8	1246.0
15°	1372.6	1358.6	1343.5	1330.8	1314.5	1297.1	1290.1
17.5°	1472.4	1450.4	1430.6	1412.1	1383.0	1370.2	1356.3
20°	1604.8	1572.3	1546.8	1515.4	1479.4	1467.8	1450.4
22.5°	1765.1	1737.2	1686.1	1662.9	1626.9	1609.5	1612.9
25°	2008.9	1972.9	1913.7	1891.6	1888.2	1849.8	1831.3
27.5°	2327.1	2329.4	2274.8	2215.6	2183.1	2122.7	2046.1
30°	2780.0	2748.6	2684.8	2624.4	2547.7	2433.9	2306.2
32.5°	3328.1	3258.4	3152.7	3040.1	2904.2	2728.9	2550.1
35°	3863.4	3741.5	3573.1	3385.0	3188.7	2970.4	2717.3
37.5°	4333.7	4144.4	3892.4	3676.4	3398.9	3126.0	2817.1
40°	4763.3	4528.8	4203.6	3923.8	3596.3	3245.6	2879.8
42.5°	5179.1	4881.8	4483.5	4104.9	3734.5	3325.8	2910.0
45°	5575.0	5191.8	4719.2	4268.7	3835.5	3378.0	2914.7
47.5°	5879.3	5461.2	4930.6	4387.1	3905.2	3417.5	2914.7
50°	6161.5	5688.8	5092.0	4480.0	3970.2	3444.2	2917.0
52.5°	6380.9	5849.1	5196.5	4546.2	4021.3	3463.9	2927.5
55°	6540.0	5953.6	5266.2	4586.8	4058.5	3491.8	2950.7
57.5°	6651.5	6022.1	5304.5	4622.8	4103.8	3540.6	3015.7
60°	6704.9	6148.7	5368.3	4694.8	4181.6	3643.9	3145.8
62.5°	6664.3	6344.9	5550.7	4816.8	4289.6	3805.3	3353.6
63°	6646.9	6380.9	5600.6	4843.5	4314.0	3840.2	3425.6
65°	6511.0	6416.9	5806.1	4978.2	4430.1	3994.6	3626.5
67.5°	6089.5	6275.3	5979.2	5205.8	4679.7	4369.7	4001.6
70°	5543.7	6065.1	5947.8	5234.8	4838.8	4677.4	4238.5
72.5°	4889.9	5429.9	5320.7	4848.1	4663.5	4680.9	4176.9
75°	3848.3	4253.6	4181.6	4015.5	4052.7	4180.4	3577.7
77.5°	3083.1	3028.5	2862.4	2874.0	3088.9	3238.7	2575.6
80°	2518.7	2039.1	1823.1	1828.9	2204.0	2359.6	1640.8
82.5°	2396.8	1928.8	1571.1	1372.6	1603.7	1544.4	857.0
85°	1707.0	1710.5	1419.0	1153.1	1117.1	949.9	534.2
87.5°	404.1	324.0	231.1	171.9	181.2	119.6	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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