

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: P154543

Luminaire Tested: **TLM-F02-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154543
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F02-LED-E1-T2-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

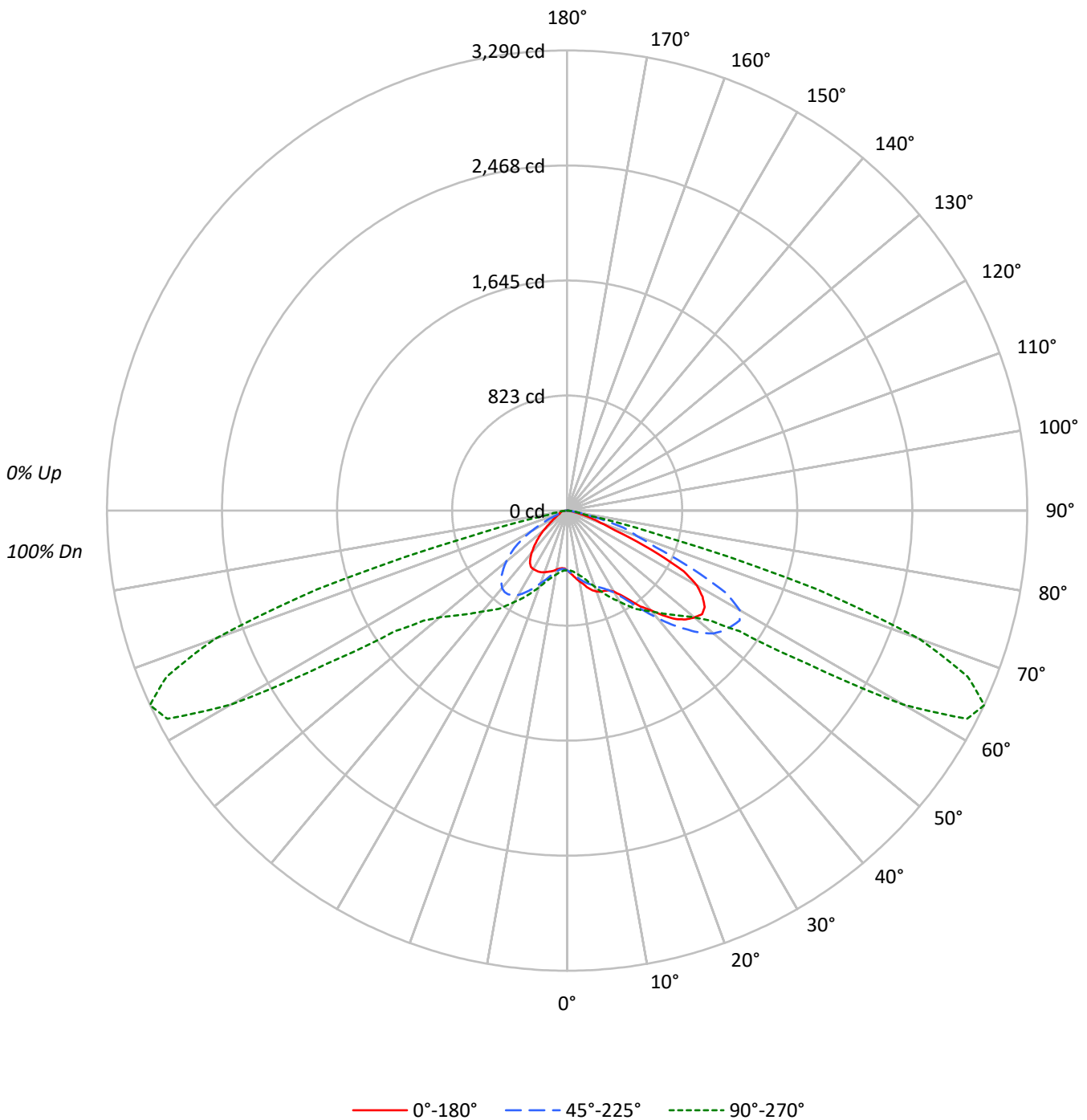
Lumens per Lamp: N/A
Luminaire Lumens: 4269.4 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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	107	101	96	91	104	98	94	90	94	90	87	90	87	84	86	84	81	79					79			
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61					61			
3	84	71	61	53	81	69	60	53	66	58	51	63	56	50	60	54	50	47					47			
4	75	60	50	42	72	59	49	41	56	48	41	54	46	40	51	45	39	37					37			
5	67	52	42	34	65	51	41	33	49	40	33	46	39	33	44	38	32	30					30			
6	61	46	35	28	59	45	35	27	43	34	27	41	33	27	39	32	27	24					24			
7	56	40	30	23	54	40	30	23	38	29	23	36	28	23	35	28	22	20					20			
8	52	36	26	20	50	35	26	20	34	26	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	28	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	19	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13925	13925	13925
5°	15225	14266	13536
10°	17031	15431	14139
15°	19292	17239	15199
20°	21396	20185	16283
25°	22785	23987	17351
30°	25156	28357	18195
35°	31147	34217	18440
40°	39535	40131	16793
45°	50631	48550	14162
50°	60315	60153	11052
55°	68281	85506	7870
60°	69907	180625	6184
65°	51410	253955	5202
70°	24405	255511	5140
75°	13283	94885	6263
80°	6274	15177	8021
85°	2957	9394	9394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.0
10°-20°	146.8	3.4
20°-30°	288.4	6.8
30°-40°	479.3	11.2
40°-50°	704.2	16.5
50°-60°	975.0	22.8
60°-70°	1163.8	27.3
70°-80°	411.6	9.6
80°-90°	57.5	1.3
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°	478.0	11.2
0°-40°	957.3	22.4
0°-60°	2636.5	61.8
0°-90°	4269.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	427	427	427	427	427	
5°	465	456	436	419	413	46
15°	571	536	510	490	450	163
25°	633	614	666	627	482	295
35°	782	809	859	732	463	500
45°	1098	1198	1052	663	307	840
55°	1201	1440	1504	453	138	1052
65°	666	993	3290	140	67	649
75°	105	299	753	56	50	130
85°	8	16	25	43	25	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	445.4	445.9	445.0	444.5	443.1	440.8	438.9	437.1	437.1	437.1	435.7
5°	465.0	465.9	464.0	462.6	458.5	456.1	452.9	450.6	449.6	449.2	447.8
7.5°	489.6	488.2	485.4	484.5	481.2	476.1	470.1	465.4	465.4	465.0	465.4
10°	514.2	510.5	509.1	507.7	502.6	496.1	489.1	484.0	483.5	483.1	481.7
12.5°	538.8	537.4	536.0	530.9	525.8	515.6	507.7	502.6	502.1	502.6	500.7
15°	571.3	568.1	566.7	557.9	546.7	535.6	525.8	521.2	519.8	520.2	518.8
17.5°	596.4	596.4	593.2	583.4	569.0	553.7	543.5	540.7	540.2	540.2	540.7
20°	616.4	615.9	612.7	604.8	587.6	572.3	567.1	566.2	565.7	565.7	567.1
22.5°	627.5	626.6	625.2	616.4	602.9	592.7	593.2	595.9	596.9	597.8	599.7
25°	633.1	631.7	631.2	625.2	615.4	614.1	622.4	629.8	631.7	633.6	635.9
27.5°	642.4	640.1	641.0	638.7	636.4	640.5	657.7	665.6	667.0	669.3	670.7
30°	667.9	667.0	670.7	671.7	673.5	679.5	695.3	702.8	706.0	706.0	712.5
32.5°	716.7	717.2	718.1	727.9	731.1	735.3	743.6	749.7	750.2	750.6	756.7
35°	782.2	785.0	792.9	801.2	809.1	808.7	803.6	806.8	804.5	807.3	807.7
37.5°	864.9	861.2	872.8	891.8	903.9	900.6	877.9	863.0	867.2	865.3	864.0
40°	928.5	932.7	955.0	980.1	989.4	999.6	969.9	944.3	940.6	933.6	929.4
42.5°	1016.3	1016.8	1034.9	1053.5	1080.4	1102.7	1083.7	1047.0	1035.8	1027.5	1009.3
45°	1097.6	1096.2	1111.1	1133.8	1165.9	1197.9	1204.9	1164.9	1160.8	1145.9	1122.2
47.5°	1151.9	1150.1	1160.3	1190.0	1242.0	1294.5	1323.3	1311.3	1303.4	1297.3	1260.2
50°	1188.6	1184.9	1196.5	1228.1	1286.2	1367.0	1442.2	1452.5	1449.2	1449.2	1425.5
52.5°	1216.0	1216.0	1224.4	1249.9	1308.9	1409.7	1544.4	1596.0	1600.2	1604.8	1603.4
55°	1200.7	1203.0	1223.9	1261.1	1323.3	1439.5	1629.0	1741.8	1765.1	1784.6	1806.9
57.5°	1148.2	1156.1	1184.0	1244.8	1327.0	1461.8	1722.8	1946.2	2011.7	2068.4	2156.6
60°	1071.6	1081.8	1122.2	1199.8	1299.6	1425.5	1755.8	2119.0	2223.1	2346.6	2577.0
62.5°	940.1	950.3	989.8	1067.4	1152.9	1286.6	1619.2	2144.6	2310.8	2486.0	2834.3
65°	666.1	649.8	695.3	765.0	863.0	992.6	1308.5	1973.2	2212.4	2449.7	2879.8
67.5°	371.1	369.7	397.6	449.6	543.5	682.8	901.6	1513.3	1733.5	2002.4	2530.5
70°	255.9	258.7	276.4	332.6	410.1	530.4	642.4	950.3	1108.7	1291.3	1810.6
72.5°	179.8	185.8	195.6	229.0	308.4	446.8	656.3	568.1	647.0	771.5	1088.8
75°	105.4	109.6	116.6	132.8	175.6	298.7	679.5	499.3	499.3	528.6	658.6
77.5°	65.0	65.0	69.2	75.7	93.4	146.3	484.0	561.1	545.3	528.6	530.0
80°	33.4	35.8	41.8	45.1	52.0	66.9	217.4	523.5	574.1	608.0	584.3
82.5°	15.3	17.2	25.5	27.4	30.2	35.3	74.8	297.7	399.0	525.3	656.3
85°	7.9	7.9	13.5	16.7	18.1	16.3	27.4	120.3	182.1	277.8	434.8
87.5°	1.4	1.4	2.3	2.8	4.2	3.7	4.6	7.0	11.6	12.5	13.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	435.2	435.7	435.2	434.8	433.8	433.8	433.8	433.4	433.4	433.4	432.9
5°	447.8	445.9	446.4	445.4	445.0	444.5	445.0	444.1	443.1	443.6	443.1
7.5°	463.6	462.6	460.8	460.8	460.3	459.4	459.4	458.0	457.5	456.6	456.1
10°	481.2	478.9	479.8	478.9	479.4	477.5	476.6	475.6	474.7	474.7	475.2
12.5°	499.3	498.9	497.5	496.5	496.5	495.1	495.6	495.1	493.8	493.3	491.9
15°	517.9	517.9	516.5	517.0	516.5	515.6	514.7	514.7	513.7	512.8	513.3
17.5°	539.7	539.7	539.7	539.7	540.2	538.8	539.3	538.3	537.4	539.3	539.3
20°	568.1	569.9	569.9	569.5	571.8	570.4	569.9	572.3	569.9	573.2	572.7
22.5°	600.6	602.4	602.4	604.3	604.8	606.2	607.1	606.2	608.0	609.9	609.9
25°	636.8	638.7	640.1	642.9	644.2	643.3	643.8	646.1	647.0	648.9	650.8
27.5°	674.9	675.4	677.2	680.5	682.8	683.7	684.2	687.9	688.4	689.3	691.2
30°	712.1	716.7	715.8	720.0	721.4	722.7	725.5	726.9	730.2	732.0	732.0
32.5°	755.7	754.8	758.5	761.8	764.1	766.4	768.7	770.6	772.4	773.4	778.0
35°	810.1	811.9	811.9	812.4	818.0	818.4	820.3	824.5	825.9	828.7	830.5
37.5°	864.0	860.7	860.2	860.2	858.4	859.8	860.2	860.7	862.6	863.0	864.9
40°	924.3	920.2	916.4	914.1	910.4	905.3	904.4	902.0	903.4	903.0	903.4
42.5°	1007.0	995.4	986.6	980.1	972.6	967.1	962.9	956.9	952.7	947.6	946.6
45°	1112.5	1090.6	1075.8	1065.1	1054.4	1039.1	1030.2	1020.9	1012.6	1004.2	997.3
47.5°	1250.9	1227.6	1204.0	1184.5	1167.7	1143.1	1118.0	1104.1	1087.8	1073.4	1063.2
50°	1413.9	1386.0	1374.9	1347.5	1326.6	1289.4	1258.3	1235.5	1203.0	1181.2	1162.2
52.5°	1580.7	1573.7	1567.7	1544.4	1519.8	1498.4	1471.0	1431.1	1398.1	1373.0	1334.0
55°	1807.8	1811.0	1808.7	1796.2	1787.4	1766.9	1755.8	1720.9	1706.1	1669.8	1629.0
57.5°	2190.1	2216.1	2249.1	2262.1	2279.7	2263.0	2282.5	2306.2	2247.2	2267.6	2230.9
60°	2678.3	2797.6	2868.7	2956.0	3013.1	3093.0	3107.4	3128.3	3122.3	3133.9	3157.6
62.5°	2976.5	3118.1	3254.2	3353.2	3459.1	3517.6	3588.2	3637.4	3688.5	3722.9	3713.1
65°	3064.2	3210.1	3333.6	3441.9	3536.6	3608.2	3673.7	3735.4	3782.3	3815.3	3834.8
67.5°	2741.9	2932.3	3062.4	3189.2	3311.4	3386.6	3441.4	3501.3	3570.1	3627.2	3638.4
70°	2063.3	2348.9	2533.3	2685.2	2828.7	2930.0	3006.6	3062.4	3115.8	3156.7	3201.3
72.5°	1290.4	1540.3	1751.1	1948.1	2100.4	2239.8	2304.3	2427.9	2411.6	2442.8	2476.2
75°	773.4	895.1	1011.2	1150.1	1230.0	1346.1	1367.0	1387.4	1376.7	1341.9	1367.9
77.5°	537.4	557.4	556.5	548.6	540.2	519.8	493.3	478.9	469.1	455.2	460.8
80°	540.7	497.5	431.5	362.8	299.6	257.8	241.1	241.1	258.3	282.9	307.5
82.5°	646.1	600.1	535.1	447.8	354.9	288.9	244.8	227.1	230.4	255.5	287.1
85°	435.7	445.9	391.1	357.7	283.3	220.6	184.9	150.0	132.8	137.0	155.1
87.5°	15.8	19.0	7.0	9.3	6.5	5.6	5.6	6.0	4.2	5.1	4.6
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	432.4	432.0	432.0	431.0	431.0	430.6	430.6	430.1	429.7	429.7	429.2
5°	442.7	442.2	441.3	440.8	439.9	439.9	439.4	438.5	438.5	437.5	437.1
7.5°	457.1	456.1	455.2	454.7	454.3	452.9	452.9	451.9	451.9	451.0	450.6
10°	474.2	473.3	472.4	472.9	471.5	471.0	470.1	470.1	468.7	468.2	468.2
12.5°	492.8	492.4	492.4	491.0	490.5	490.0	488.2	488.2	488.2	487.3	487.7
15°	512.8	513.3	511.9	513.3	512.8	511.4	511.4	511.4	509.5	511.9	510.0
17.5°	539.7	541.1	540.2	540.7	539.7	539.7	540.2	539.7	540.7	540.7	543.5
20°	573.2	573.6	576.0	575.0	575.0	574.6	575.5	576.0	577.8	576.9	578.8
22.5°	609.9	612.2	612.7	614.5	614.5	614.1	615.0	616.8	617.8	619.2	618.7
25°	651.7	653.1	654.9	652.6	656.3	656.3	657.3	659.6	660.0	660.0	663.3
27.5°	690.7	694.4	694.9	697.2	695.8	696.7	700.0	701.4	703.2	703.2	704.2
30°	734.8	736.2	737.1	739.9	739.5	739.9	740.4	742.7	742.7	745.0	747.4
32.5°	780.3	781.3	782.2	785.0	785.9	787.8	786.8	788.7	791.0	791.5	792.9
35°	834.7	835.6	836.5	840.7	841.2	844.4	845.4	844.4	848.2	845.8	848.2
37.5°	866.3	870.5	871.4	874.2	873.2	875.6	877.0	878.8	879.7	881.6	885.3
40°	904.8	906.2	909.0	910.4	912.3	912.7	914.6	916.0	917.4	921.5	925.7
42.5°	944.3	946.2	947.6	949.4	951.7	953.6	955.0	959.2	960.1	962.9	970.8
45°	992.2	991.2	991.7	992.2	993.1	995.4	999.6	1003.8	1006.6	1013.1	1019.6
47.5°	1051.6	1045.6	1043.2	1039.5	1040.5	1045.6	1046.5	1053.5	1059.0	1065.1	1073.0
50°	1141.7	1125.5	1115.7	1106.0	1105.0	1107.8	1111.5	1119.0	1125.5	1133.4	1144.5
52.5°	1293.1	1262.0	1242.5	1215.6	1208.1	1206.7	1204.0	1208.1	1210.0	1220.7	1241.6
55°	1599.7	1542.1	1504.9	1463.1	1424.1	1412.5	1390.2	1394.9	1390.2	1396.7	1427.8
57.5°	2239.8	2193.8	2157.6	2104.1	2037.3	1966.2	1948.5	1875.6	1890.0	1931.8	1904.9
60°	3169.2	3152.5	3126.5	3100.9	3009.4	2957.9	2873.8	2864.5	2805.5	2806.0	2767.4
62.5°	3689.4	3710.8	3695.0	3687.6	3682.5	3666.2	3624.4	3574.3	3499.0	3444.7	3364.8
65°	3838.1	3820.0	3802.8	3800.5	3799.1	3825.5	3831.6	3796.3	3728.0	3643.5	3551.5
67.5°	3664.8	3654.6	3655.5	3636.0	3648.1	3694.1	3726.1	3716.4	3653.7	3551.5	3434.4
70°	3252.4	3232.4	3252.8	3278.4	3296.5	3323.0	3355.0	3362.9	3305.8	3200.8	3081.4
72.5°	2435.3	2438.6	2458.1	2465.1	2538.0	2530.5	2559.3	2465.5	2424.2	2324.3	2263.0
75°	1281.5	1260.6	1315.0	1199.8	1152.4	1185.4	1092.9	1004.2	1022.8	1038.1	927.6
77.5°	452.9	423.6	373.9	353.9	294.5	249.4	203.9	183.9	173.3	167.7	160.7
80°	325.1	334.4	324.2	300.1	255.0	204.4	161.2	127.3	109.2	99.4	92.9
82.5°	328.9	365.6	381.8	374.8	334.0	252.7	166.8	106.4	79.0	66.0	61.3
85°	176.5	193.2	185.8	156.5	140.7	84.1	57.6	38.6	32.5	29.7	27.4
87.5°	7.0	5.6	4.6	4.6	5.1	5.6	4.6	5.1	4.6	4.6	4.6
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: P154543

CATALOG NUMBER: TLM-F02-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	428.3	428.3	428.3	427.8	426.9	424.5	422.2	420.4	419.0	417.6	415.7
5°	436.6	435.7	435.7	435.7	432.0	428.3	425.0	421.8	419.0	416.6	414.8
7.5°	450.6	450.1	448.2	447.8	445.0	438.9	435.2	429.7	426.4	423.2	422.2
10°	467.3	466.8	466.3	465.9	462.2	456.1	451.5	446.4	441.7	437.1	432.4
12.5°	486.8	486.3	485.9	484.5	483.1	479.8	474.7	469.1	463.6	453.8	448.7
15°	510.9	511.9	510.9	510.5	509.5	510.0	506.8	498.9	490.0	477.5	466.8
17.5°	543.0	542.1	541.6	543.5	543.0	545.3	544.4	534.2	520.7	500.7	482.1
20°	578.3	578.3	580.1	581.5	585.7	591.8	589.0	576.4	551.8	523.9	499.8
22.5°	620.6	621.5	623.3	622.4	628.9	638.7	639.6	622.0	589.9	551.4	517.4
25°	664.7	665.6	663.8	666.5	677.2	691.2	693.9	668.9	626.6	576.4	532.3
27.5°	706.5	707.4	707.4	711.1	721.4	745.0	747.8	720.0	663.8	598.3	543.0
30°	747.4	751.1	752.0	752.9	768.3	801.2	807.3	766.9	696.3	614.5	550.4
32.5°	798.9	800.3	802.2	804.5	822.1	862.6	862.6	807.3	717.2	624.7	551.8
35°	854.2	854.7	858.8	859.3	884.4	924.8	916.9	840.7	732.0	622.4	541.6
37.5°	887.6	889.5	893.7	899.3	925.7	982.9	964.7	869.5	734.8	607.1	518.4
40°	929.0	932.7	936.9	942.5	981.9	1041.9	1005.2	887.6	723.2	576.9	483.5
42.5°	973.6	978.7	985.2	995.4	1042.3	1093.9	1035.8	890.4	696.7	543.0	442.2
45°	1023.7	1033.0	1040.5	1052.5	1105.5	1138.9	1054.4	874.2	663.3	498.4	398.1
47.5°	1081.8	1089.2	1102.2	1115.2	1168.2	1169.6	1056.3	842.6	617.8	453.8	351.2
50°	1153.3	1158.0	1177.5	1185.4	1235.1	1201.6	1042.8	799.9	569.9	403.6	299.1
52.5°	1248.6	1255.1	1280.1	1292.2	1327.5	1245.3	1023.7	753.4	515.1	347.4	245.7
55°	1436.7	1465.0	1482.7	1503.6	1526.3	1344.2	1015.4	703.7	453.3	282.4	194.6
57.5°	1964.8	1955.5	1994.5	2041.9	2041.4	1570.4	1065.5	661.0	380.4	216.0	149.6
60°	2751.6	2760.5	2740.5	2768.8	2678.7	1851.0	1134.3	615.9	298.2	160.7	114.3
62.5°	3336.4	3285.3	3257.0	3223.6	3025.2	1881.7	1084.1	523.5	216.9	112.9	87.8
65°	3474.9	3414.9	3354.1	3290.4	2991.3	1696.3	889.5	384.1	140.3	77.6	69.7
67.5°	3338.3	3242.1	3164.6	3099.1	2741.0	1406.0	650.3	236.0	80.4	62.7	59.5
70°	2984.4	2878.0	2752.6	2679.2	2308.1	1036.3	416.6	127.3	61.8	55.7	54.3
72.5°	2184.5	2097.2	1960.1	1876.1	1657.3	629.8	232.7	71.5	57.6	53.4	51.6
75°	850.9	805.4	748.3	752.9	672.1	278.7	105.4	61.8	56.2	52.5	50.6
77.5°	146.3	142.6	131.9	131.9	150.0	101.7	70.1	62.2	55.7	51.6	48.3
80°	87.8	85.9	81.8	80.8	78.0	71.5	67.4	63.2	54.8	48.8	44.6
82.5°	57.6	55.3	53.9	53.4	58.1	62.7	63.2	62.7	52.0	42.3	36.2
85°	24.6	24.6	24.6	25.1	33.4	50.6	52.0	55.7	42.7	33.0	26.0
87.5°	4.2	5.1	5.1	5.6	6.0	11.1	13.9	18.1	14.4	13.9	12.5
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: P154543

CATALOG NUMBER: TLM-F02-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	426.9	426.9	426.9
2.5°	415.3	414.3	414.3
5°	413.9	412.9	413.4
7.5°	419.4	417.6	418.0
10°	429.7	427.8	426.9
12.5°	442.7	440.3	440.3
15°	456.1	450.6	450.1
17.5°	467.3	460.3	459.4
20°	479.8	470.5	469.1
22.5°	491.4	478.9	477.0
25°	499.8	484.5	482.1
27.5°	503.5	485.4	483.5
30°	506.3	485.9	483.1
32.5°	503.5	481.7	479.4
35°	488.2	464.5	463.1
37.5°	461.7	435.2	433.4
40°	426.9	399.0	394.4
42.5°	382.3	356.3	351.2
45°	339.1	309.4	307.0
47.5°	292.6	264.3	265.7
50°	243.9	218.3	217.8
52.5°	197.4	175.1	173.7
55°	155.6	139.8	138.4
57.5°	123.1	114.7	113.3
60°	100.3	96.1	94.8
62.5°	80.8	79.4	79.0
65°	67.4	67.4	67.4
67.5°	58.5	59.0	59.0
70°	53.9	54.3	53.9
72.5°	52.0	53.4	53.4
75°	50.6	51.6	49.7
77.5°	49.7	50.2	46.9
80°	49.2	48.8	42.7
82.5°	42.7	41.3	36.2
85°	39.0	29.7	25.1
87.5°	20.0	13.9	10.7
90°	0.0	0.0	0.0

(END OF REPORT)