

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: P148403

Luminaire Tested: **TLM-F05-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148403  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
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-E1-5XQ-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

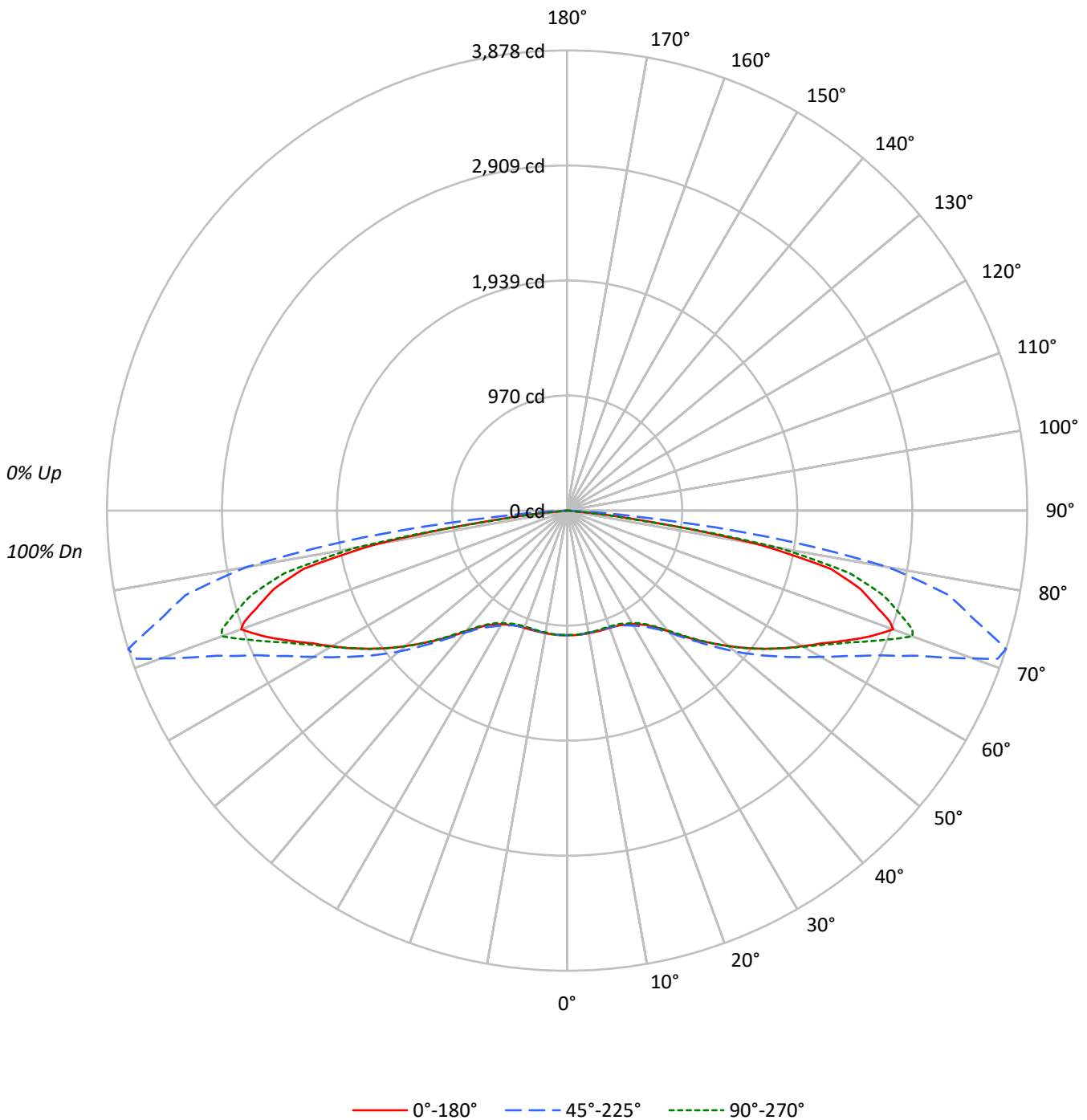
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11079.4 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
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



TEST NUMBER: P148403  
CATALOG NUMBER: TLM-F05-LED-E1-5XQ-8030

### Luminous Intensity Polar Plot





TEST NUMBER: P148403

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-8030

**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	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13613	13613	13613
5°	13689	13666	13657
10°	13817	13763	13740
15°	14095	14009	13970
20°	14520	14459	14360
25°	15245	15287	15062
30°	16555	16767	16397
35°	18659	19019	18541
40°	22499	22760	22313
45°	28218	28714	28112
50°	35787	37252	35868
55°	45880	48374	45973
60°	59274	63935	59500
65°	79480	88478	80637
70°	110871	138134	117472
75°	128273	177949	138244
80°	122062	204968	135423
85°	9940	83118	6473



TEST NUMBER: P148403

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-8030

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	0.9
10°-20°	295.9	2.7
20°-30°	495.6	4.5
30°-40°	755.5	6.8
40°-50°	1206.4	10.9
50°-60°	1854.9	16.7
60°-70°	2700.7	24.4
70°-80°	3042.3	27.5
80°-90°	628.0	5.7
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°	891.6	8.0
0°-40°	1647.1	14.9
0°-60°	4708.3	42.5
0°-90°	11079.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11079.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1052	1051	1050	1049	1049	100
15°	1050	1047	1043	1039	1040	298
25°	1065	1067	1068	1058	1053	496
35°	1179	1187	1201	1180	1171	753
45°	1539	1538	1566	1540	1533	1200
55°	2029	2035	2140	2044	2033	1826
65°	2590	2601	2883	2638	2628	2581
75°	2560	2722	3551	2947	2759	2607
85°	67	176	559	141	44	415
90°	0	0	0	0	0	



TEST NUMBER: P148403

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7
2.5°	1051.5	1052.1	1051.8	1051.2	1051.5	1051.2	1050.6	1050.3	1048.3	1049.4	1051.2
5°	1051.5	1050.9	1050.6	1050.3	1050.3	1051.2	1050.3	1049.4	1049.2	1049.8	1048.9
7.5°	1050.9	1049.8	1049.2	1048.9	1049.2	1049.4	1048.6	1047.4	1048.3	1047.4	1046.2
10°	1049.2	1048.3	1048.6	1047.4	1047.7	1047.4	1046.3	1045.4	1046.0	1045.1	1043.6
12.5°	1049.8	1048.3	1048.0	1047.4	1047.2	1046.8	1045.4	1044.0	1044.2	1043.6	1042.2
15°	1049.8	1048.9	1048.6	1047.4	1047.2	1046.6	1044.8	1044.2	1044.2	1043.4	1041.6
17.5°	1050.3	1049.8	1049.8	1048.3	1047.7	1047.4	1045.4	1044.6	1045.4	1043.6	1042.5
20°	1052.1	1051.5	1051.8	1050.9	1049.7	1049.8	1048.3	1047.7	1048.0	1047.7	1044.6
22.5°	1055.6	1055.6	1056.1	1055.8	1055.6	1055.9	1054.7	1054.7	1055.0	1055.0	1052.4
25°	1065.4	1065.2	1065.7	1065.7	1066.0	1068.0	1067.2	1066.9	1068.3	1068.3	1065.7
27.5°	1084.0	1083.4	1084.0	1084.6	1086.0	1088.6	1088.1	1088.9	1091.3	1090.7	1088.4
30°	1105.5	1104.9	1106.4	1108.1	1109.2	1113.4	1111.6	1115.9	1118.0	1119.7	1118.0
32.5°	1136.8	1136.8	1139.4	1140.6	1143.2	1147.3	1147.9	1151.4	1154.0	1156.9	1154.8
35°	1178.6	1178.1	1180.1	1182.1	1185.4	1189.1	1190.6	1195.2	1199.2	1201.3	1197.6
37.5°	1242.5	1239.3	1243.1	1244.3	1246.9	1247.8	1251.8	1257.6	1262.0	1261.4	1258.8
40°	1329.0	1328.4	1327.0	1325.2	1329.3	1330.8	1330.8	1338.6	1345.6	1344.4	1344.1
42.5°	1430.1	1427.4	1425.7	1425.7	1428.0	1428.6	1437.6	1443.4	1448.4	1449.5	1448.4
45°	1538.6	1536.0	1536.6	1535.5	1536.3	1540.1	1545.3	1556.0	1565.4	1565.6	1560.7
47.5°	1655.4	1647.2	1653.6	1644.6	1650.1	1653.0	1666.0	1681.8	1698.0	1700.9	1696.6
50°	1773.8	1772.9	1772.3	1770.6	1773.2	1779.6	1795.6	1820.2	1835.9	1846.4	1839.4
52.5°	1903.2	1898.9	1896.8	1894.0	1896.6	1909.0	1931.4	1952.9	1981.1	1993.0	1983.4
55°	2029.2	2027.8	2020.2	2020.0	2025.5	2044.9	2069.3	2095.7	2126.2	2139.5	2136.1
57.5°	2158.8	2150.3	2148.0	2144.5	2155.5	2173.8	2203.7	2251.3	2283.0	2298.1	2289.4
60°	2285.3	2278.9	2274.0	2272.8	2280.4	2305.9	2348.8	2406.0	2445.2	2465.0	2451.1
62.5°	2421.1	2417.1	2411.3	2404.6	2420.6	2453.4	2506.8	2570.1	2627.9	2652.2	2631.0
65°	2590.1	2581.7	2575.3	2566.9	2580.0	2621.2	2688.2	2777.4	2854.9	2883.3	2868.2
67.5°	2768.4	2760.5	2761.1	2755.9	2779.1	2836.3	2922.8	3043.9	3147.8	3196.3	3167.8
70°	2924.0	2928.3	2929.5	2950.7	2990.8	3077.8	3221.8	3411.4	3569.0	3643.0	3612.6
71°	2878.1	2887.7	2902.5	2924.5	2993.7	3096.7	3293.2	3522.9	3711.0	3836.4	3794.3
72.5°	2748.0	2753.8	2761.4	2795.1	2873.1	3009.6	3212.0	3474.4	3716.2	3878.5	3829.7
75°	2560.0	2565.4	2568.0	2591.6	2662.7	2781.7	2966.9	3199.8	3413.2	3551.4	3537.7
77.5°	2276.0	2276.9	2297.2	2333.5	2413.3	2549.4	2744.6	2986.1	3186.7	3294.1	3225.9
80°	1634.4	1623.4	1644.3	1691.0	1789.8	1945.9	2145.7	2421.4	2644.1	2744.5	2638.9
82.5°	621.8	655.5	708.6	785.8	819.2	992.8	1179.2	1341.2	1528.8	1738.4	1685.8
85°	66.8	75.2	94.4	117.0	147.8	204.4	282.4	385.5	475.2	558.6	495.8
87.5°	24.9	25.5	28.5	32.8	33.4	34.8	37.2	43.3	40.3	34.8	28.2
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: P148403

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7	1049.7
2.5°	1049.7	1050.0	1049.7	1050.0	1050.0	1048.9	1049.2	1048.6
5°	1049.5	1048.6	1048.9	1049.2	1048.9	1049.5	1048.6	1049.1
7.5°	1048.0	1046.2	1046.8	1046.8	1046.2	1047.2	1046.5	1046.2
10°	1045.1	1042.8	1043.9	1043.4	1043.1	1043.4	1043.4	1043.4
12.5°	1042.5	1041.0	1041.4	1041.0	1040.8	1041.6	1041.4	1041.6
15°	1041.9	1039.6	1039.3	1038.7	1039.0	1039.6	1039.6	1040.5
17.5°	1041.3	1038.4	1038.1	1037.6	1037.8	1039.0	1039.3	1038.7
20°	1043.1	1040.8	1040.1	1039.6	1039.3	1040.8	1040.4	1040.5
22.5°	1051.2	1048.3	1048.0	1045.7	1044.8	1045.7	1045.1	1045.1
25°	1064.2	1060.8	1059.6	1056.4	1054.1	1054.1	1053.2	1052.6
27.5°	1087.8	1082.6	1081.4	1078.8	1075.6	1076.2	1074.4	1074.1
30°	1115.1	1110.4	1106.4	1102.6	1098.8	1097.4	1095.3	1095.0
32.5°	1150.8	1145.6	1140.6	1136.0	1130.8	1128.7	1125.2	1123.5
35°	1194.6	1187.6	1181.8	1178.6	1173.4	1170.8	1168.5	1171.1
37.5°	1255.8	1247.4	1244.6	1240.8	1237.3	1233.2	1234.1	1233.2
40°	1340.6	1333.1	1330.2	1323.5	1322.6	1318.0	1320.9	1318.0
42.5°	1445.4	1431.5	1429.5	1424.2	1422.5	1419.9	1421.0	1419.0
45°	1559.5	1547.0	1544.7	1536.3	1536.6	1530.5	1532.8	1532.8
47.5°	1687.8	1674.8	1664.0	1658.0	1655.6	1651.8	1653.9	1653.6
50°	1820.2	1802.5	1790.6	1778.7	1773.5	1774.9	1770.8	1777.8
52.5°	1962.5	1936.0	1919.2	1907.9	1898.0	1900.0	1900.6	1902.6
55°	2109.7	2076.0	2051.6	2036.8	2027.8	2028.4	2031.0	2033.3
57.5°	2257.8	2215.6	2182.5	2160.5	2154.7	2157.2	2157.3	2157.0
60°	2411.3	2360.8	2318.1	2293.1	2287.9	2286.4	2297.8	2294.0
62.5°	2576.2	2515.5	2471.4	2439.4	2431.9	2437.1	2447.3	2445.0
65°	2794.8	2710.9	2654.0	2622.4	2609.6	2614.8	2628.4	2627.8
67.5°	3076.7	2959.4	2884.2	2843.6	2834.3	2840.6	2848.2	2855.5
70°	3498.2	3330.7	3223.3	3135.3	3097.6	3090.3	3097.9	3098.1
71°	3646.6	3454.1	3283.0	3175.6	3113.8	3087.7	3089.7	3076.7
72.5°	3640.4	3403.3	3203.2	3090.9	3005.0	2984.1	2973.9	2958.2
75°	3395.1	3181.5	3007.9	2885.4	2802.6	2778.0	2760.0	2759.0
77.5°	3079.0	2921.3	2730.1	2600.3	2499.6	2458.6	2440.3	2439.8
80°	2475.2	2239.1	2099.2	2021.1	1899.5	1864.4	1827.2	1813.3
82.5°	1496.8	1169.6	951.0	845.1	786.4	647.7	581.2	549.8
85°	348.7	247.6	170.7	112.1	80.7	64.1	49.3	43.5
87.5°	23.5	18.6	16.6	13.4	10.2	9.9	6.1	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)