

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: P148404

Luminaire Tested: **TLM-F05-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148404
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

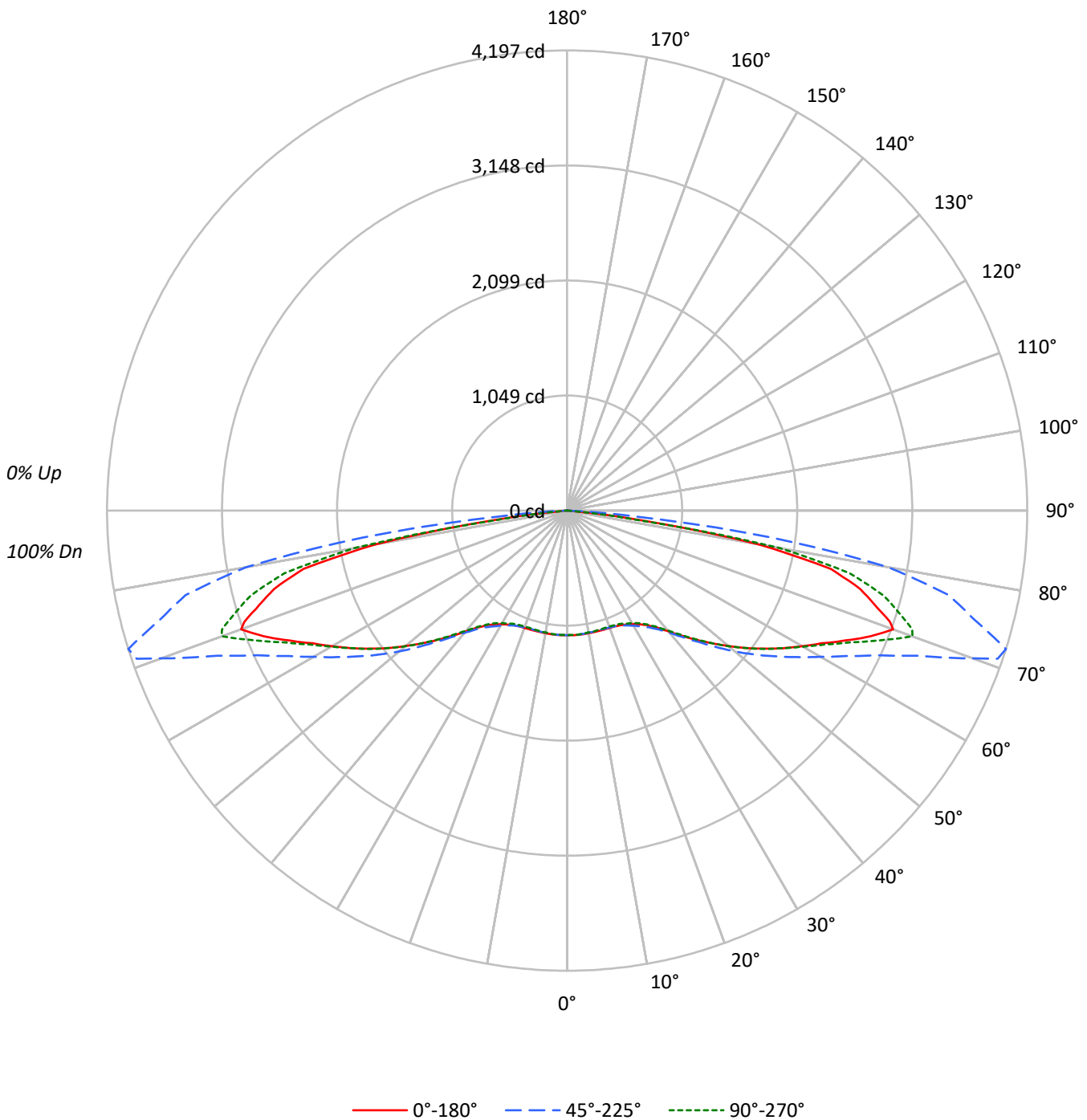
Lumens per Lamp: N/A
Luminaire Lumens: 11989.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

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: P148404
CATALOG NUMBER: TLM-F05-LED-E1-5XQ-7030

Luminous Intensity Polar Plot





TEST NUMBER: P148404

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-7030

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°	14732	14732	14732
5°	14813	14789	14781
10°	14952	14894	14869
15°	15252	15159	15118
20°	15712	15647	15540
25°	16499	16543	16301
30°	17916	18145	17747
35°	20193	20581	20065
40°	24348	24630	24146
45°	30538	31074	30423
50°	38729	40313	38818
55°	49652	52351	49751
60°	64145	69190	64389
65°	86014	95747	87266
70°	119979	149486	127130
75°	138811	192570	149609
80°	132099	221816	146551
85°	10743	89933	7008



TEST NUMBER: P148404

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-7030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	0.9
10°-20°	320.3	2.7
20°-30°	536.3	4.5
30°-40°	817.6	6.8
40°-50°	1305.5	10.9
50°-60°	2007.3	16.7
60°-70°	2922.7	24.4
70°-80°	3292.4	27.5
80°-90°	679.7	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°	964.8	8.0
0°-40°	1782.4	14.9
0°-60°	5095.2	42.5
0°-90°	11989.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11989.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1138	1137	1136	1135	1135	109
15°	1136	1133	1129	1124	1126	322
25°	1153	1155	1156	1145	1139	537
35°	1276	1285	1300	1277	1267	814
45°	1665	1665	1694	1667	1659	1299
55°	2196	2202	2315	2212	2200	1976
65°	2803	2814	3120	2855	2844	2793
75°	2770	2946	3843	3189	2986	2822
85°	72	191	604	153	47	450
90°	0	0	0	0	0	



TEST NUMBER: P148404

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0
2.5°	1137.9	1138.6	1138.2	1137.6	1137.9	1137.6	1137.0	1136.6	1134.4	1135.7	1137.6
5°	1137.9	1137.3	1137.0	1136.6	1136.6	1137.6	1136.7	1135.7	1135.4	1136.0	1135.1
7.5°	1137.3	1136.0	1135.4	1135.1	1135.4	1135.7	1134.8	1133.5	1134.5	1133.5	1132.2
10°	1135.4	1134.4	1134.8	1133.5	1133.8	1133.5	1132.2	1131.3	1131.9	1131.0	1129.4
12.5°	1136.0	1134.5	1134.2	1133.5	1133.2	1132.9	1131.3	1129.8	1130.0	1129.4	1127.8
15°	1136.0	1135.1	1134.8	1133.5	1133.2	1132.6	1130.7	1130.0	1130.0	1129.1	1127.2
17.5°	1136.6	1136.0	1136.0	1134.5	1133.8	1133.5	1131.3	1130.4	1131.3	1129.4	1128.2
20°	1138.5	1137.9	1138.2	1137.3	1136.0	1136.0	1134.4	1133.8	1134.1	1133.8	1130.4
22.5°	1142.3	1142.3	1142.9	1142.6	1142.3	1142.6	1141.4	1141.4	1141.7	1141.7	1138.9
25°	1153.0	1152.6	1153.3	1153.3	1153.6	1155.8	1154.9	1154.6	1156.2	1156.1	1153.3
27.5°	1173.1	1172.5	1173.1	1173.7	1175.3	1178.1	1177.5	1178.4	1180.9	1180.3	1177.8
30°	1196.4	1195.7	1197.3	1199.2	1200.4	1204.8	1202.9	1207.6	1209.8	1211.7	1209.8
32.5°	1230.2	1230.2	1233.1	1234.4	1237.2	1241.6	1242.2	1246.0	1248.8	1251.9	1249.7
35°	1275.5	1274.8	1277.1	1279.3	1282.7	1286.8	1288.4	1293.4	1297.8	1300.0	1295.9
37.5°	1344.6	1341.2	1345.3	1346.5	1349.3	1350.3	1354.7	1360.9	1365.7	1365.0	1362.2
40°	1438.2	1437.6	1436.1	1434.2	1438.6	1440.1	1440.1	1448.6	1456.2	1454.9	1454.6
42.5°	1547.6	1544.7	1542.9	1542.9	1545.4	1546.0	1555.8	1562.0	1567.4	1568.6	1567.4
45°	1665.1	1662.2	1662.9	1661.6	1662.6	1666.6	1672.3	1683.9	1694.0	1694.3	1689.0
47.5°	1791.4	1782.6	1789.5	1779.7	1785.7	1788.8	1803.0	1820.0	1837.6	1840.7	1836.0
50°	1919.6	1918.6	1918.0	1916.1	1918.9	1925.8	1943.1	1969.8	1986.8	1998.1	1990.6
52.5°	2059.6	2055.0	2052.7	2049.6	2052.4	2066.0	2090.1	2113.4	2143.8	2156.7	2146.4
55°	2196.0	2194.4	2186.2	2186.0	2191.9	2213.0	2239.4	2268.0	2301.0	2315.4	2311.6
57.5°	2336.1	2327.0	2324.5	2320.7	2332.7	2352.4	2384.8	2436.3	2470.6	2486.9	2477.5
60°	2473.1	2466.2	2460.8	2459.6	2467.8	2495.4	2541.9	2603.8	2646.2	2667.6	2652.5
62.5°	2620.1	2615.7	2609.5	2602.2	2619.5	2655.0	2712.8	2781.3	2843.8	2870.2	2847.3
65°	2803.0	2793.8	2787.0	2777.8	2792.0	2836.6	2909.2	3005.6	3089.5	3120.2	3104.0
67.5°	2995.8	2987.4	2988.0	2982.4	3007.5	3069.4	3163.0	3294.0	3406.5	3459.0	3428.2
70°	3164.2	3169.0	3170.2	3193.2	3236.5	3330.8	3486.6	3691.8	3862.3	3942.4	3909.4
71°	3114.6	3125.0	3141.0	3164.9	3239.6	3351.2	3563.9	3812.4	4016.0	4151.7	4106.1
72.5°	2973.9	2980.1	2988.4	3024.8	3109.3	3257.0	3475.9	3759.9	4021.6	4197.2	4144.5
75°	2770.3	2776.2	2779.1	2804.5	2881.5	3010.3	3210.8	3462.7	3693.6	3843.2	3828.4
77.5°	2463.0	2464.0	2486.0	2525.3	2611.6	2759.0	2970.1	3231.5	3448.6	3564.8	3491.0
80°	1768.8	1756.8	1779.4	1830.0	1936.8	2105.8	2322.0	2620.4	2861.4	2970.1	2855.7
82.5°	672.9	709.4	766.9	850.4	886.6	1074.4	1276.1	1451.4	1654.4	1881.2	1824.4
85°	72.2	81.4	102.1	126.6	159.9	221.2	305.7	417.2	514.3	604.4	536.6
87.5°	27.0	27.6	30.8	35.5	36.2	37.7	40.2	46.8	43.7	37.7	30.5
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: P148404

CATALOG NUMBER: TLM-F05-LED-E1-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0	1136.0
2.5°	1136.0	1136.3	1136.0	1136.3	1136.3	1135.1	1135.4	1134.8
5°	1135.7	1134.8	1135.1	1135.4	1135.1	1135.7	1134.8	1135.4
7.5°	1134.2	1132.2	1132.9	1132.9	1132.2	1133.2	1132.6	1132.2
10°	1131.0	1128.5	1129.8	1129.1	1128.8	1129.1	1129.1	1129.1
12.5°	1128.2	1126.6	1126.9	1126.6	1126.3	1127.2	1126.9	1127.2
15°	1127.5	1125.0	1124.7	1124.1	1124.4	1125.0	1125.0	1126.0
17.5°	1126.9	1123.8	1123.4	1122.8	1123.2	1124.4	1124.7	1124.1
20°	1128.8	1126.3	1125.6	1125.0	1124.7	1126.3	1126.0	1126.0
22.5°	1137.6	1134.4	1134.2	1131.6	1130.7	1131.6	1131.0	1131.0
25°	1151.7	1148.0	1146.7	1143.2	1140.7	1140.8	1139.8	1139.2
27.5°	1177.2	1171.5	1170.2	1167.4	1164.0	1164.6	1162.8	1162.4
30°	1206.7	1201.6	1197.3	1193.2	1189.1	1187.6	1185.4	1185.1
32.5°	1245.4	1239.7	1234.4	1229.4	1223.7	1221.5	1217.7	1215.8
35°	1292.8	1285.2	1279.0	1275.5	1269.8	1267.0	1264.5	1267.4
37.5°	1359.1	1349.9	1346.8	1342.7	1339.0	1334.6	1335.5	1334.6
40°	1450.8	1442.6	1439.5	1432.3	1431.3	1426.3	1429.4	1426.3
42.5°	1564.2	1549.2	1547.0	1541.3	1539.4	1536.6	1537.8	1535.6
45°	1687.7	1674.2	1671.7	1662.6	1662.8	1656.3	1658.8	1658.8
47.5°	1826.6	1812.4	1800.8	1794.2	1791.7	1787.6	1789.8	1789.4
50°	1969.8	1950.7	1937.8	1924.9	1919.2	1920.8	1916.4	1924.0
52.5°	2123.7	2095.2	2077.0	2064.7	2054.0	2056.2	2056.8	2059.0
55°	2283.0	2246.6	2220.2	2204.2	2194.5	2195.0	2197.9	2200.4
57.5°	2443.2	2397.7	2361.9	2338.0	2331.8	2334.6	2334.6	2334.2
60°	2609.5	2554.8	2508.6	2481.6	2475.9	2474.4	2486.6	2482.5
62.5°	2787.9	2722.2	2674.5	2639.9	2631.8	2637.4	2648.4	2645.9
65°	3024.5	2933.6	2872.1	2837.8	2824.0	2829.7	2844.4	2843.8
67.5°	3329.5	3202.6	3121.2	3077.2	3067.2	3074.1	3082.3	3090.1
70°	3785.7	3604.4	3488.2	3393.0	3352.1	3344.3	3352.4	3352.8
71°	3946.2	3737.9	3552.9	3436.6	3369.7	3341.5	3343.7	3329.5
72.5°	3939.6	3683.0	3466.5	3344.9	3251.9	3229.3	3218.3	3201.3
75°	3674.2	3442.9	3255.0	3122.5	3032.9	3006.2	2986.8	2985.8
77.5°	3332.0	3161.4	2954.4	2814.0	2705.0	2660.6	2640.9	2640.2
80°	2678.5	2423.1	2271.7	2187.2	2055.6	2017.6	1977.4	1962.3
82.5°	1619.8	1265.8	1029.2	914.6	851.1	700.9	629.0	595.0
85°	377.3	268.0	184.8	121.3	87.4	69.4	53.4	47.1
87.5°	25.4	20.1	17.9	14.4	11.0	10.7	6.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)