

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: P148381

Luminaire Tested: **TLM-E03-LED-E1-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148381
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-E03-LED-E1-5XQ-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

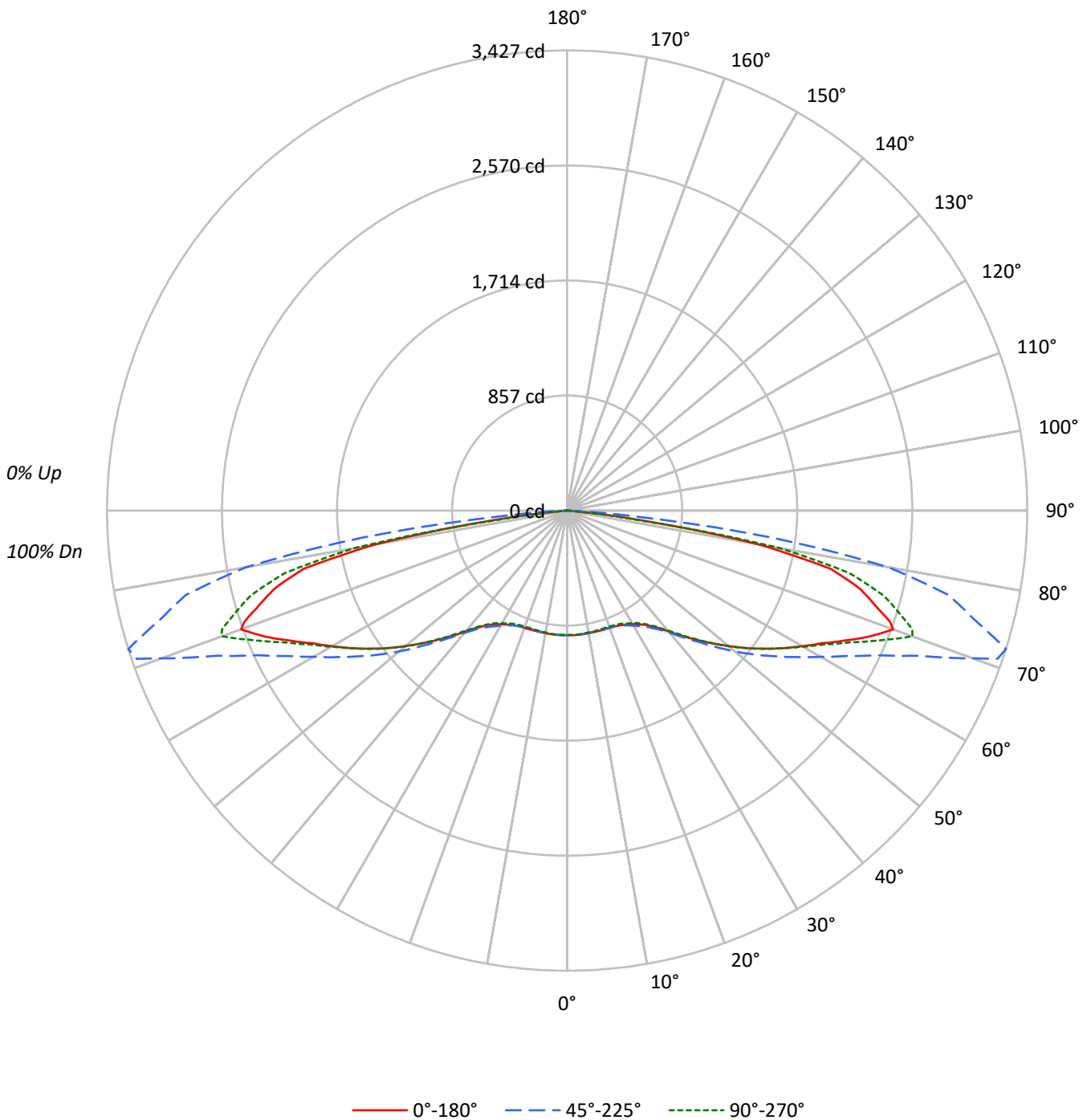
Lumens per Lamp: N/A
Luminaire Lumens: 9790.2 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 75.2
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	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°	19969	19969	19969
5°	20080	20045	20035
10°	20266	20188	20155
15°	20674	20549	20491
20°	21297	21210	21063
25°	22361	22423	22095
30°	24281	24595	24053
35°	27371	27897	27195
40°	33004	33386	32728
45°	41393	42118	41235
50°	52494	54641	52615
55°	67300	70959	67439
60°	86947	93784	87278
65°	116585	129783	118281
70°	162626	202620	172313
75°	188147	261018	202786
80°	179043	300661	198643
85°	14573	121921	9510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	0.9
10°-20°	261.5	2.7
20°-30°	437.9	4.5
30°-40°	667.6	6.8
40°-50°	1066.0	10.9
50°-60°	1639.0	16.7
60°-70°	2386.5	24.4
70°-80°	2688.3	27.5
80°-90°	555.0	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°	787.8	8.0
0°-40°	1455.4	14.9
0°-60°	4160.5	42.5
0°-90°	9790.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9790.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	929	928	928	927	927	89
15°	928	925	922	918	919	263
25°	941	943	944	935	930	439
35°	1042	1049	1062	1043	1035	665
45°	1360	1359	1383	1361	1354	1061
55°	1793	1798	1891	1806	1797	1613
65°	2289	2298	2548	2331	2322	2281
75°	2262	2405	3138	2604	2438	2304
85°	59	156	494	125	38	367
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°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6
2.5°	929.2	929.6	929.4	928.9	929.1	928.9	928.4	928.1	926.3	927.4	928.9
5°	929.2	928.6	928.4	928.1	928.1	928.9	928.1	927.3	927.1	927.6	926.8
7.5°	928.6	927.6	927.1	926.8	927.1	927.4	926.6	925.6	926.3	925.6	924.5
10°	927.1	926.3	926.6	925.6	925.8	925.6	924.5	923.7	924.3	923.5	922.2
12.5°	927.6	926.4	926.0	925.6	925.3	925.0	923.8	922.5	922.7	922.2	921.0
15°	927.6	926.8	926.6	925.6	925.3	924.8	923.2	922.8	922.7	922.0	920.4
17.5°	928.1	927.6	927.6	926.3	925.8	925.6	923.8	923.0	923.8	922.2	921.2
20°	929.6	929.1	929.4	928.6	927.6	927.6	926.3	925.8	926.1	925.8	923.0
22.5°	932.7	932.7	933.2	933.0	932.7	933.0	932.0	932.0	932.2	932.2	929.9
25°	941.4	941.2	941.7	941.7	942.0	943.8	943.0	942.8	944.0	944.0	941.7
27.5°	957.9	957.4	957.8	958.4	959.6	962.0	961.5	962.3	964.3	963.8	961.7
30°	976.8	976.3	977.6	979.2	980.2	983.8	982.2	986.1	987.9	989.4	987.9
32.5°	1004.6	1004.6	1006.9	1007.9	1010.2	1013.8	1014.3	1017.4	1019.7	1022.3	1020.4
35°	1041.5	1041.0	1042.8	1044.6	1047.4	1050.8	1052.0	1056.1	1059.7	1061.5	1058.2
37.5°	1097.9	1095.1	1098.4	1099.5	1101.8	1102.5	1106.1	1111.3	1115.1	1114.6	1112.3
40°	1174.4	1173.8	1172.6	1171.0	1174.6	1175.9	1175.9	1182.9	1189.0	1188.0	1187.7
42.5°	1263.6	1261.4	1259.8	1259.8	1261.8	1262.4	1270.3	1275.4	1279.8	1280.9	1279.8
45°	1359.6	1357.3	1357.8	1356.8	1357.5	1360.9	1365.5	1375.0	1383.2	1383.4	1379.1
47.5°	1462.8	1455.6	1461.2	1453.2	1458.1	1460.6	1472.2	1486.1	1500.4	1503.0	1499.1
50°	1567.4	1566.6	1566.1	1564.6	1566.8	1572.5	1586.6	1608.4	1622.2	1631.5	1625.4
52.5°	1681.8	1678.0	1676.2	1673.6	1675.9	1686.9	1706.7	1725.7	1750.5	1761.1	1752.6
55°	1793.1	1791.8	1785.2	1784.9	1789.8	1807.0	1828.5	1851.8	1878.8	1890.6	1887.5
57.5°	1907.6	1900.1	1898.0	1894.9	1904.7	1920.8	1947.3	1989.4	2017.4	2030.6	2023.0
60°	2019.4	2013.8	2009.4	2008.3	2015.0	2037.6	2075.6	2126.1	2160.7	2178.2	2165.9
62.5°	2139.4	2135.9	2130.7	2124.8	2138.9	2167.9	2215.1	2271.0	2322.1	2343.6	2324.9
65°	2288.7	2281.3	2275.6	2268.2	2279.8	2316.2	2375.4	2454.2	2522.7	2547.8	2534.5
67.5°	2446.2	2439.3	2439.8	2435.2	2455.7	2506.3	2582.7	2689.7	2781.5	2824.4	2799.2
70°	2583.7	2587.6	2588.6	2607.3	2642.8	2719.7	2846.9	3014.4	3153.7	3219.1	3192.2
71°	2543.2	2551.6	2564.8	2584.2	2645.3	2736.4	2910.0	3113.0	3279.2	3390.0	3352.8
72.5°	2428.3	2433.4	2440.0	2469.8	2538.8	2659.4	2838.2	3070.1	3283.8	3427.2	3384.1
75°	2262.0	2266.9	2269.2	2290.0	2352.9	2458.0	2621.7	2827.5	3016.0	3138.1	3126.0
77.5°	2011.2	2012.0	2029.9	2062.0	2132.5	2252.8	2425.2	2638.7	2815.9	2910.8	2850.5
80°	1444.2	1434.5	1453.0	1494.2	1581.5	1719.5	1896.0	2139.7	2336.5	2425.2	2331.8
82.5°	549.5	579.2	626.2	694.4	723.9	877.3	1042.0	1185.2	1350.9	1536.1	1489.6
85°	59.0	66.4	83.4	103.4	130.6	180.6	249.6	340.7	420.0	493.6	438.1
87.5°	22.0	22.6	25.1	29.0	29.5	30.8	32.8	38.2	35.7	30.8	24.9
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°
0°	927.6	927.6	927.6	927.6	927.6	927.6	927.6	927.6
2.5°	927.6	927.8	927.6	927.8	927.8	926.8	927.1	926.6
5°	927.4	926.6	926.8	927.1	926.8	927.4	926.6	927.1
7.5°	926.1	924.5	925.0	925.0	924.5	925.3	924.8	924.5
10°	923.5	921.4	922.4	922.0	921.7	922.0	922.0	922.0
12.5°	921.2	919.9	920.2	919.9	919.6	920.4	920.2	920.4
15°	920.7	918.6	918.4	917.8	918.1	918.6	918.6	919.4
17.5°	920.2	917.6	917.3	916.8	917.1	918.1	918.4	917.8
20°	921.7	919.7	919.1	918.6	918.4	919.7	919.4	919.4
22.5°	928.9	926.3	926.1	924.0	923.2	924.0	923.5	923.5
25°	940.4	937.4	936.3	933.5	931.4	931.4	930.6	930.2
27.5°	961.2	956.6	955.6	953.2	950.4	951.0	949.4	949.2
30°	985.3	981.2	977.6	974.3	971.0	969.6	967.9	967.6
32.5°	1016.8	1012.2	1007.9	1003.8	999.2	997.4	994.3	992.8
35°	1055.6	1049.4	1044.3	1041.5	1036.9	1034.6	1032.5	1034.8
37.5°	1109.8	1102.3	1099.7	1096.4	1093.3	1089.7	1090.5	1089.8
40°	1184.6	1178.0	1175.4	1169.5	1168.8	1164.6	1167.2	1164.6
42.5°	1277.2	1264.9	1263.1	1258.5	1257.0	1254.7	1255.7	1253.9
45°	1378.1	1367.0	1364.9	1357.5	1357.8	1352.4	1354.4	1354.4
47.5°	1491.4	1479.9	1470.4	1465.0	1463.0	1459.6	1461.4	1461.2
50°	1608.4	1592.8	1582.2	1571.8	1567.2	1568.4	1564.8	1571.0
52.5°	1734.1	1710.8	1695.9	1685.9	1677.2	1679.0	1679.5	1681.2
55°	1864.2	1834.4	1812.9	1799.8	1791.8	1792.4	1794.6	1796.8
57.5°	1995.0	1957.8	1928.6	1909.1	1904.0	1906.2	1906.2	1906.0
60°	2130.7	2086.0	2048.4	2026.3	2021.7	2020.4	2030.4	2027.1
62.5°	2276.4	2222.8	2183.8	2155.6	2148.9	2153.6	2162.5	2160.4
65°	2469.6	2395.4	2345.2	2317.2	2305.9	2310.5	2322.6	2322.0
67.5°	2718.7	2615.0	2548.6	2512.7	2504.5	2510.1	2516.8	2523.2
70°	3091.1	2943.1	2848.2	2770.5	2737.1	2730.7	2737.4	2737.6
71°	3222.2	3052.1	2901.0	2806.1	2751.5	2728.4	2730.2	2718.6
72.5°	3216.8	3007.2	2830.5	2731.2	2655.3	2636.8	2627.9	2614.0
75°	3000.1	2811.3	2657.8	2549.6	2476.5	2454.7	2438.8	2438.0
77.5°	2720.7	2581.4	2412.4	2297.7	2208.7	2172.5	2156.4	2155.8
80°	2187.1	1978.6	1855.0	1785.9	1678.4	1647.4	1614.6	1602.3
82.5°	1322.6	1033.6	840.4	746.8	694.9	572.3	513.6	485.8
85°	308.1	218.8	150.8	99.0	71.3	56.7	43.6	38.5
87.5°	20.8	16.4	14.6	11.8	9.0	8.7	5.4	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)