

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: P148379

Luminaire Tested: **TLM-E03-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148379  
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-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

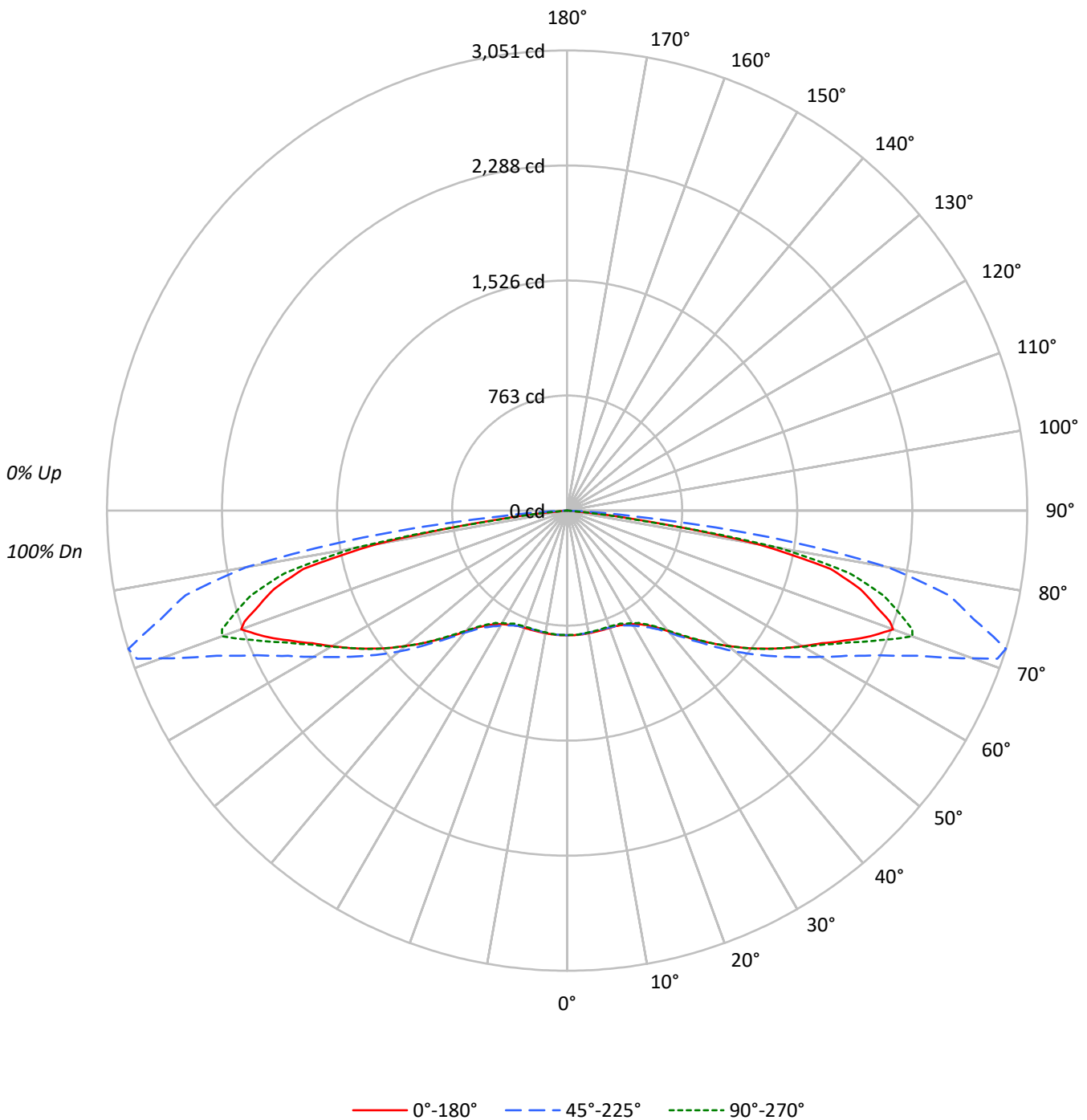
Lumens per Lamp: N/A  
Luminaire Lumens: 8714.4 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
CIE Type: Direct

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°	17776	17776	17776
5°	17872	17843	17833
10°	18039	17969	17938
15°	18403	18289	18240
20°	18958	18877	18749
25°	19905	19958	19668
30°	21614	21893	21410
35°	24362	24833	24210
40°	29378	29716	29131
45°	36844	37490	36704
50°	46727	48636	46834
55°	59906	63160	60026
60°	77388	83476	77690
65°	103773	115520	105291
70°	144763	180357	153380
75°	167469	232330	180503
80°	159381	267622	176811
85°	12968	108509	8448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	0.9
10°-20°	232.8	2.7
20°-30°	389.8	4.5
30°-40°	594.2	6.8
40°-50°	948.9	10.9
50°-60°	1458.9	16.7
60°-70°	2124.2	24.4
70°-80°	2392.9	27.5
80°-90°	494.0	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°	701.2	8.0
0°-40°	1295.5	14.9
0°-60°	3703.3	42.5
0°-90°	8714.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8714.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	827	826	826	825	825	79
15°	826	823	821	817	818	234
25°	838	839	840	832	828	390
35°	927	934	945	928	921	592
45°	1210	1210	1231	1212	1206	944
55°	1596	1601	1683	1608	1599	1436
65°	2037	2045	2268	2075	2067	2030
75°	2013	2141	2793	2318	2170	2051
85°	52	138	439	111	34	327
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°	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7
2.5°	827.0	827.5	827.3	826.8	827.0	826.8	826.3	826.1	824.5	825.4	826.8
5°	827.0	826.6	826.3	826.1	826.1	826.8	826.1	825.4	825.2	825.7	825.0
7.5°	826.6	825.7	825.2	825.0	825.2	825.4	824.8	823.8	824.5	823.8	822.9
10°	825.2	824.5	824.7	823.8	824.1	823.8	822.9	822.2	822.7	822.0	820.9
12.5°	825.7	824.5	824.3	823.8	823.6	823.4	822.2	821.1	821.3	820.9	819.8
15°	825.7	825.0	824.8	823.8	823.6	823.1	821.8	821.3	821.3	820.6	819.3
17.5°	826.2	825.7	825.7	824.5	824.1	823.8	822.2	821.6	822.2	820.9	820.0
20°	827.5	827.0	827.3	826.6	825.7	825.7	824.5	824.0	824.3	824.0	821.6
22.5°	830.2	830.2	830.7	830.4	830.2	830.5	829.6	829.5	829.8	829.8	827.7
25°	838.0	837.8	838.2	838.2	838.4	840.0	839.4	839.1	840.3	840.2	838.2
27.5°	852.6	852.2	852.6	853.1	854.2	856.3	855.8	856.5	858.3	857.9	856.0
30°	869.5	869.0	870.2	871.6	872.5	875.6	874.3	877.7	879.3	880.7	879.3
32.5°	894.2	894.2	896.2	897.1	899.2	902.4	902.8	905.6	907.6	909.9	908.3
35°	927.0	926.6	928.2	929.8	932.3	935.3	936.4	940.1	943.2	944.9	941.9
37.5°	977.3	974.8	977.8	978.6	980.7	981.4	984.6	989.2	992.6	992.2	990.1
40°	1045.4	1044.9	1043.7	1042.4	1045.5	1046.7	1046.7	1052.9	1058.4	1057.4	1057.2
42.5°	1124.8	1122.7	1121.4	1121.4	1123.2	1123.6	1130.7	1135.3	1139.2	1140.1	1139.2
45°	1210.2	1208.2	1208.6	1207.7	1208.4	1211.3	1215.4	1223.9	1231.2	1231.4	1227.5
47.5°	1302.0	1295.6	1300.6	1293.5	1297.9	1300.2	1310.4	1322.8	1335.6	1337.8	1334.4
50°	1395.2	1394.5	1394.0	1392.6	1394.7	1399.7	1412.2	1431.6	1444.0	1452.2	1446.7
52.5°	1497.0	1493.6	1491.9	1489.7	1491.7	1501.6	1519.1	1536.0	1558.2	1567.5	1560.0
55°	1596.1	1595.0	1589.0	1588.8	1593.1	1608.4	1627.6	1648.4	1672.4	1682.8	1680.1
57.5°	1697.9	1691.3	1689.5	1686.7	1695.4	1709.8	1733.3	1770.8	1795.6	1807.5	1800.7
60°	1797.4	1792.4	1788.6	1787.7	1793.6	1813.7	1847.5	1892.5	1923.3	1938.8	1927.9
62.5°	1904.4	1901.2	1896.6	1891.3	1903.9	1929.6	1971.7	2021.5	2066.9	2086.1	2069.4
65°	2037.2	2030.6	2025.6	2019.0	2029.2	2061.7	2114.4	2184.5	2245.5	2267.8	2256.0
67.5°	2177.4	2171.3	2171.7	2167.6	2185.9	2230.8	2298.9	2394.1	2475.9	2514.0	2491.6
70°	2299.9	2303.2	2304.2	2320.8	2352.3	2420.8	2534.1	2683.2	2807.2	2865.4	2841.4
71°	2263.7	2271.3	2282.9	2300.3	2354.6	2435.7	2590.2	2770.8	2918.8	3017.4	2984.4
72.5°	2161.4	2166.0	2171.9	2198.4	2259.8	2367.2	2526.3	2732.8	2923.0	3050.6	3012.2
75°	2013.4	2017.8	2019.9	2038.4	2094.3	2187.9	2333.6	2516.7	2684.6	2793.2	2782.5
77.5°	1790.2	1790.8	1806.8	1835.4	1898.2	2005.3	2158.7	2348.7	2506.4	2591.0	2537.3
80°	1285.6	1276.8	1293.3	1330.1	1407.7	1530.5	1687.6	1904.6	2079.7	2158.7	2075.6
82.5°	489.1	515.6	557.4	618.1	644.4	780.9	927.5	1054.9	1202.4	1367.3	1326.0
85°	52.5	59.1	74.2	92.0	116.2	160.8	222.2	303.2	373.8	439.3	390.0
87.5°	19.6	20.1	22.4	25.8	26.3	27.4	29.2	34.0	31.7	27.4	22.1
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°	825.7	825.7	825.7	825.7	825.7	825.7	825.7	825.7
2.5°	825.7	825.9	825.7	825.9	825.9	825.0	825.2	824.8
5°	825.4	824.8	825.0	825.2	825.0	825.4	824.8	825.2
7.5°	824.3	822.9	823.4	823.4	822.9	823.6	823.2	823.0
10°	822.0	820.2	821.1	820.6	820.4	820.6	820.6	820.6
12.5°	820.0	818.8	819.0	818.8	818.6	819.3	819.0	819.2
15°	819.5	817.7	817.4	817.0	817.2	817.7	817.7	818.4
17.5°	819.0	816.8	816.6	816.1	816.3	817.2	817.4	817.0
20°	820.4	818.6	818.2	817.7	817.5	818.6	818.4	818.4
22.5°	826.8	824.5	824.3	822.5	821.8	822.4	822.0	822.0
25°	837.1	834.3	833.4	830.9	829.1	829.1	828.4	828.0
27.5°	855.6	851.4	850.6	848.5	846.0	846.4	845.1	844.8
30°	877.0	873.4	870.2	867.2	864.2	863.1	861.5	861.3
32.5°	905.1	901.0	897.2	893.5	889.4	887.8	885.0	883.6
35°	939.6	934.1	929.6	927.0	923.0	920.9	919.1	921.2
37.5°	987.8	981.2	978.9	975.9	973.2	970.0	970.6	970.0
40°	1054.4	1048.5	1046.2	1041.0	1040.3	1036.6	1038.9	1036.6
42.5°	1136.9	1125.9	1124.3	1120.2	1118.9	1116.8	1117.7	1116.1
45°	1226.6	1216.8	1215.0	1208.4	1208.6	1203.8	1205.6	1205.6
47.5°	1327.6	1317.3	1308.8	1304.0	1302.2	1299.2	1300.9	1300.6
50°	1431.7	1417.8	1408.4	1399.0	1394.9	1396.0	1392.8	1398.4
52.5°	1543.6	1522.8	1509.6	1500.6	1492.9	1494.4	1494.9	1496.5
55°	1659.3	1632.8	1613.7	1602.0	1594.9	1595.4	1597.4	1599.3
57.5°	1775.8	1742.6	1716.6	1699.3	1694.7	1696.8	1696.8	1696.6
60°	1896.6	1856.8	1823.3	1803.6	1799.5	1798.4	1807.3	1804.4
62.5°	2026.2	1978.6	1943.8	1918.7	1912.8	1916.9	1924.9	1923.1
65°	2198.2	2132.2	2087.4	2062.6	2052.6	2056.6	2067.4	2067.0
67.5°	2419.9	2327.6	2268.5	2236.6	2229.2	2234.3	2240.2	2245.9
70°	2751.5	2619.7	2535.2	2466.0	2436.4	2430.6	2436.6	2436.8
71°	2868.1	2716.8	2582.3	2497.8	2449.2	2428.6	2430.2	2419.9
72.5°	2863.4	2676.8	2519.5	2431.1	2363.5	2347.1	2339.1	2326.8
75°	2670.4	2502.4	2365.8	2269.5	2204.4	2185.0	2170.8	2170.1
77.5°	2421.8	2297.8	2147.3	2045.2	1966.0	1933.8	1919.4	1919.0
80°	1946.8	1761.2	1651.1	1589.7	1494.0	1466.4	1437.1	1426.2
82.5°	1177.3	920.0	748.0	664.7	618.6	509.4	457.1	432.4
85°	274.2	194.8	134.2	88.1	63.5	50.4	38.8	34.2
87.5°	18.5	14.6	13.0	10.5	8.0	7.7	4.8	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)