

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: P147339

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147339  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
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-E1-5MQ-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

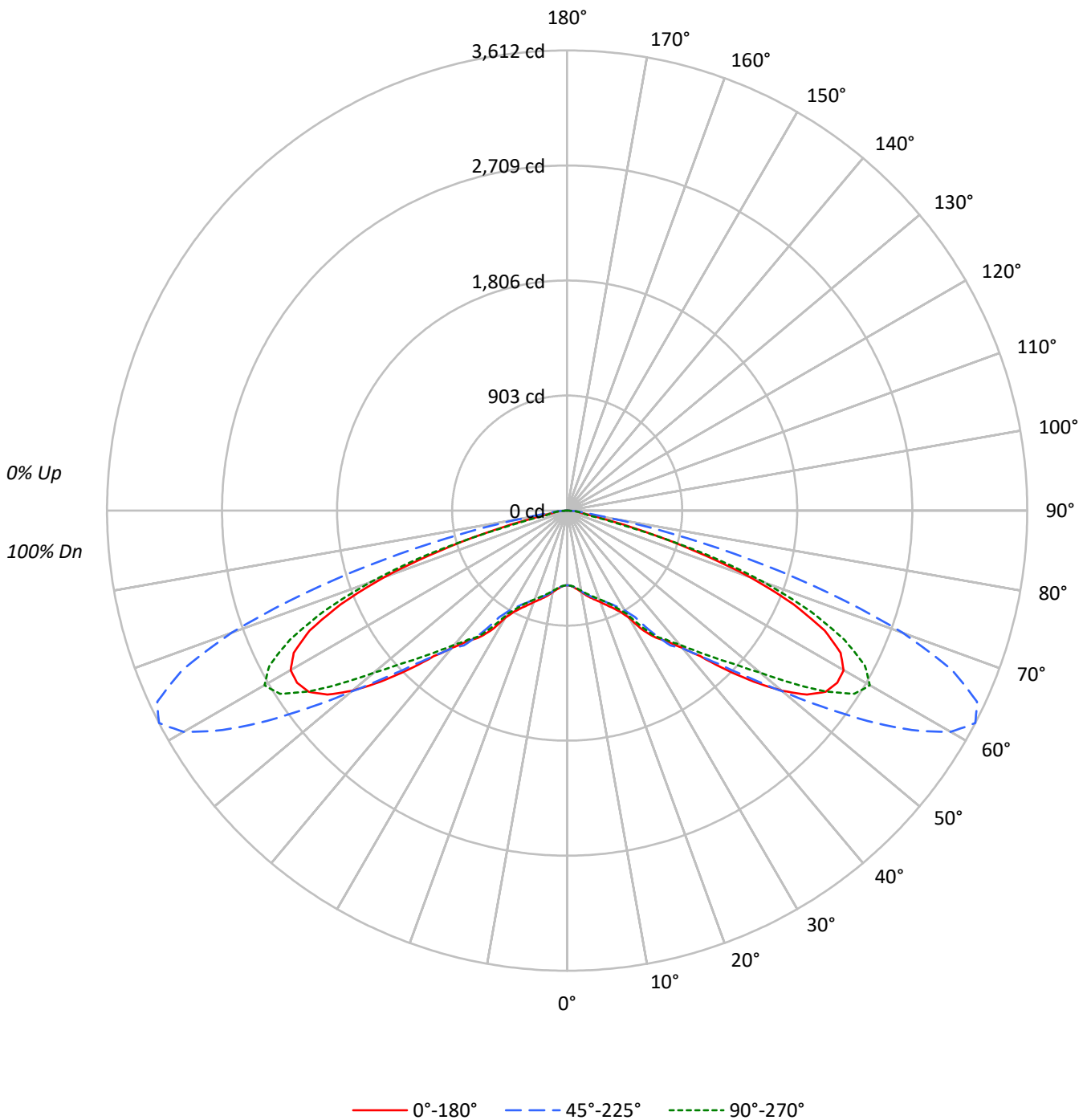
Lumens per Lamp: N/A  
Luminaire Lumens: 8833.3 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
CIE Type: Direct

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	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

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

	0°	45°	90°
0°	12624	12624	12624
5°	13046	12977	12949
10°	14196	14047	13975
15°	15757	15461	15307
20°	17512	17095	16948
25°	19991	19178	19330
30°	24147	22522	23295
35°	32057	30880	31660
40°	39529	39642	38630
45°	53848	52317	49692
50°	73644	74026	66350
55°	93021	108071	92901
60°	107889	149593	118093
65°	113615	180844	122361
70°	96379	176291	103598
75°	48883	123759	42470
80°	15522	42969	15621
85°	16796	22329	17142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	0.7
10°-20°	198.6	2.2
20°-30°	384.1	4.3
30°-40°	743.6	8.4
40°-50°	1342.7	15.2
50°-60°	2334.7	26.4
60°-70°	2650.5	30.0
70°-80°	1027.6	11.6
80°-90°	92.7	1.0
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°	641.5	7.3
0°-40°	1385.1	15.7
0°-60°	5062.5	57.3
0°-90°	8833.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8833.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	604	603	600	600	599	59
15°	707	702	694	689	687	202
25°	842	824	807	808	814	396
35°	1220	1196	1175	1196	1205	762
45°	1769	1728	1718	1651	1632	1385
55°	2478	2598	2879	2563	2475	2182
65°	2230	2561	3550	2756	2402	2126
75°	588	822	1488	778	511	712
85°	68	97	90	98	69	67
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°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	590.0	591.8	591.3	590.4	590.4	590.5	590.0	588.7	588.2	589.1	590.0
5°	603.7	603.7	603.7	603.7	602.8	602.8	601.9	601.0	601.4	600.5	600.0
7.5°	624.8	623.4	623.3	622.9	622.9	622.0	620.6	618.8	619.2	618.8	618.4
10°	649.4	649.8	648.5	649.8	647.6	647.1	645.2	644.4	643.9	642.6	642.6
12.5°	679.0	677.7	677.7	676.8	675.8	675.0	672.2	671.8	670.0	669.0	667.6
15°	707.0	706.4	704.7	702.8	702.3	701.4	698.2	696.4	696.0	693.7	691.9
17.5°	734.8	733.9	731.6	730.7	728.9	727.5	724.8	722.0	720.7	719.7	717.4
20°	764.4	763.6	761.2	759.4	757.2	755.3	751.2	749.0	747.6	746.2	744.4
22.5°	801.4	799.6	796.0	792.8	787.8	786.0	780.4	777.2	775.0	773.2	772.2
25°	841.6	842.2	837.1	833.0	827.0	822.0	815.2	811.5	809.2	807.4	807.0
27.5°	891.8	892.3	887.8	881.8	872.8	867.2	858.1	853.6	852.2	850.3	849.9
30°	971.4	967.2	959.4	949.9	941.6	929.8	916.6	912.0	907.4	906.0	906.0
32.5°	1117.4	1115.2	1108.8	1085.0	1074.1	1049.4	1026.2	1012.9	997.8	990.6	986.0
35°	1219.8	1218.9	1213.8	1205.6	1198.8	1193.8	1180.0	1177.8	1175.0	1175.0	1178.7
37.5°	1295.2	1289.6	1288.8	1290.1	1288.2	1289.2	1300.2	1315.2	1328.0	1334.4	1333.5
40°	1406.6	1398.8	1403.4	1400.2	1396.0	1395.2	1398.8	1404.7	1410.6	1410.6	1409.3
42.5°	1552.2	1555.9	1557.7	1544.5	1535.8	1533.6	1542.2	1540.4	1546.3	1544.1	1538.0
45°	1768.7	1766.4	1763.2	1747.2	1733.6	1722.6	1724.8	1721.7	1722.1	1718.4	1714.0
47.5°	1987.0	1994.8	1981.6	1973.8	1958.2	1950.4	1956.8	1951.4	1961.8	1942.7	1933.6
50°	2198.9	2204.4	2199.8	2188.9	2188.9	2199.8	2207.6	2217.6	2232.2	2210.3	2177.4
52.5°	2372.4	2377.0	2383.8	2393.0	2415.4	2438.6	2471.6	2506.7	2534.6	2530.4	2493.0
55°	2478.4	2483.9	2495.2	2526.8	2567.0	2628.2	2702.6	2784.4	2848.3	2879.4	2852.0
57.5°	2514.0	2518.1	2549.2	2587.0	2649.6	2740.5	2865.2	3006.2	3129.1	3207.2	3194.9
60°	2505.8	2505.8	2537.3	2589.4	2677.0	2797.6	2973.8	3169.3	3357.5	3474.4	3457.0
62.5°	2419.4	2424.0	2469.2	2531.8	2637.8	2782.1	2992.2	3242.0	3467.1	3612.3	3598.2
65°	2230.4	2233.6	2282.4	2356.9	2475.2	2646.0	2875.7	3152.5	3410.4	3550.2	3523.7
67.5°	1924.9	1928.0	1967.8	2051.8	2177.0	2355.6	2603.5	2908.1	3160.6	3271.2	3191.7
70°	1531.2	1540.4	1565.9	1655.0	1750.0	1924.9	2153.2	2457.8	2696.2	2800.8	2713.1
72.5°	1043.5	1066.8	1097.8	1176.8	1267.8	1413.0	1594.7	1851.4	2042.8	2163.8	2085.6
75°	587.7	620.6	630.2	690.0	764.9	879.6	1012.4	1196.5	1389.7	1487.9	1393.8
77.5°	253.9	280.8	292.7	320.6	379.0	427.0	507.8	632.0	781.4	850.3	737.6
80°	125.2	131.5	136.5	145.2	161.6	177.2	215.6	269.9	331.1	346.6	275.8
82.5°	96.8	101.4	110.0	116.9	121.0	125.2	128.8	136.1	142.0	145.2	137.0
85°	68.0	74.0	83.6	91.4	95.9	99.0	102.3	104.6	99.1	90.4	95.0
87.5°	17.8	23.3	32.4	35.2	39.8	42.0	41.1	42.4	38.4	27.8	31.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	589.6	589.2	589.6	589.6	589.6	589.2	589.1	589.1
5°	600.1	600.0	600.6	599.6	599.6	600.1	599.6	599.2
7.5°	617.9	617.4	617.4	617.0	617.4	617.0	617.0	616.5
10°	641.6	640.7	641.2	639.8	639.8	639.4	639.4	639.3
12.5°	667.2	665.8	666.3	665.0	662.6	663.1	663.6	663.1
15°	691.8	690.5	689.2	688.2	686.8	687.3	687.3	686.8
17.5°	717.0	714.2	713.8	712.4	712.0	712.0	712.0	712.4
20°	743.0	741.2	740.7	739.3	738.9	740.2	740.8	739.8
22.5°	770.9	769.9	770.9	770.0	771.4	772.2	772.7	771.8
25°	806.0	805.2	806.4	809.7	811.5	812.4	814.8	813.8
27.5°	851.2	850.3	853.6	858.1	860.8	865.4	867.6	868.6
30°	909.7	913.8	915.6	924.8	926.6	933.9	933.9	937.1
32.5°	994.6	1002.4	1016.1	1030.2	1049.9	1064.0	1064.1	1071.4
35°	1180.9	1184.2	1194.7	1197.0	1201.0	1205.6	1201.0	1204.7
37.5°	1323.9	1309.8	1299.7	1285.6	1276.8	1276.8	1277.8	1276.9
40°	1396.9	1391.5	1387.0	1375.1	1373.2	1372.8	1372.8	1374.6
42.5°	1527.6	1514.4	1507.0	1497.0	1493.8	1492.9	1492.4	1493.3
45°	1697.5	1676.0	1656.4	1646.3	1637.6	1629.4	1632.1	1632.2
47.5°	1895.2	1861.8	1829.9	1812.5	1797.5	1790.6	1786.0	1784.7
50°	2135.9	2089.2	2048.2	2015.8	1993.8	1993.4	1995.7	1981.1
52.5°	2430.9	2357.4	2306.2	2262.4	2241.8	2239.5	2232.2	2224.0
55°	2757.8	2670.6	2586.1	2539.1	2512.2	2497.6	2488.9	2475.2
57.5°	3094.9	2977.5	2856.0	2780.7	2733.2	2700.3	2683.0	2675.2
60°	3354.8	3194.5	3034.1	2913.1	2834.2	2785.3	2755.1	2742.8
62.5°	3457.0	3239.6	3034.2	2875.2	2761.0	2693.4	2652.8	2635.0
65°	3335.1	3077.5	2843.7	2668.4	2541.0	2465.6	2421.3	2402.1
67.5°	2994.4	2767.0	2512.6	2338.2	2207.1	2132.6	2084.7	2070.6
70°	2510.4	2277.9	2035.0	1879.2	1762.3	1701.6	1651.8	1645.9
72.5°	1886.5	1686.0	1477.8	1349.0	1255.0	1154.4	1128.9	1141.7
75°	1209.3	1021.6	836.2	720.2	634.4	538.4	501.4	510.6
77.5°	572.6	443.4	320.2	247.5	207.8	177.6	169.9	165.3
80°	212.4	172.1	152.0	144.3	138.9	133.8	130.2	126.0
82.5°	137.4	134.2	130.2	128.8	124.7	118.2	106.4	101.4
85°	102.8	102.8	97.2	97.8	94.6	86.3	75.4	69.4
87.5°	30.2	27.0	24.6	22.8	22.4	20.1	14.6	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)