

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: P148380

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148380
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9541.1 lumens
Efficiency: N/A
Efficacy: 126.9 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

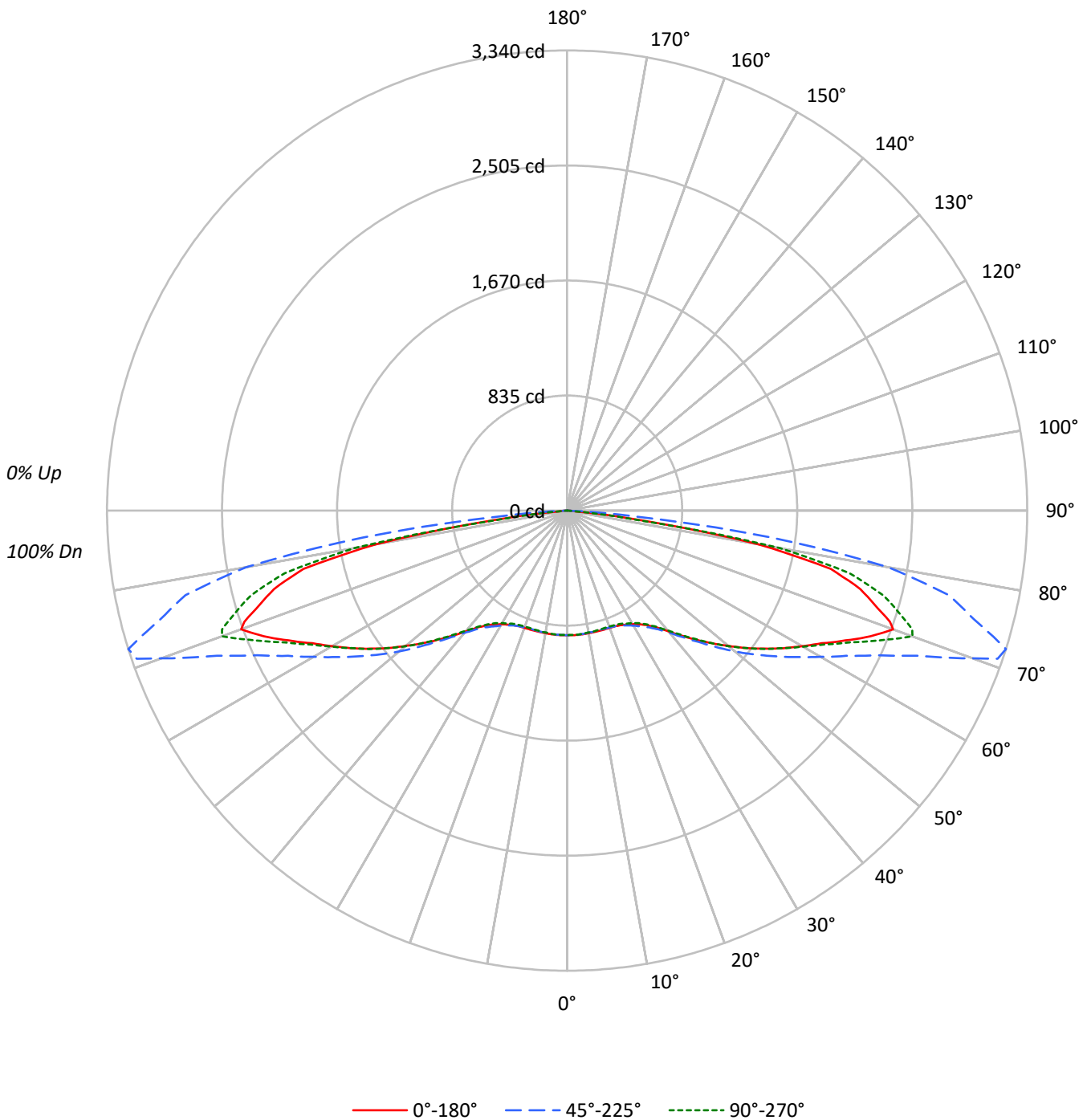
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19461	19461	19461
5°	19568	19535	19525
10°	19750	19674	19641
15°	20148	20025	19969
20°	20756	20669	20527
25°	21794	21853	21532
30°	23665	23968	23441
35°	26675	27187	26504
40°	32163	32537	31896
45°	40340	41046	40187
50°	51158	53251	51275
55°	65588	69154	65720
60°	84734	91399	85056
65°	113620	126482	115275
70°	158491	197465	167932
75°	183364	254372	197629
80°	174493	293012	193585
85°	14203	118809	9263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	0.9
10°-20°	254.9	2.7
20°-30°	426.8	4.5
30°-40°	650.6	6.8
40°-50°	1038.9	10.9
50°-60°	1597.3	16.7
60°-70°	2325.8	24.4
70°-80°	2619.9	27.5
80°-90°	540.8	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°	767.8	8.0
0°-40°	1418.4	14.9
0°-60°	4054.6	42.5
0°-90°	9541.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9541.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	906	905	904	903	904	86
15°	904	902	898	895	896	256
25°	918	919	920	911	906	428
35°	1015	1022	1034	1016	1008	648
45°	1325	1325	1348	1327	1320	1034
55°	1748	1753	1842	1760	1751	1572
65°	2230	2240	2483	2272	2263	2223
75°	2204	2344	3058	2538	2376	2245
85°	58	152	481	122	38	358
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°	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0
2.5°	905.5	906.0	905.8	905.2	905.5	905.2	904.8	904.5	902.8	903.8	905.2
5°	905.5	905.0	904.8	904.5	904.5	905.2	904.5	903.8	903.5	904.0	903.2
7.5°	905.0	904.0	903.5	903.2	903.5	903.8	903.0	902.0	902.8	902.0	901.0
10°	903.5	902.8	903.0	902.0	902.2	902.0	901.0	900.2	900.8	900.0	898.8
12.5°	904.0	902.8	902.5	902.0	901.8	901.5	900.2	899.0	899.2	898.8	897.5
15°	904.0	903.2	903.0	902.0	901.8	901.2	899.8	899.2	899.2	898.5	897.0
17.5°	904.5	904.0	904.0	902.8	902.2	902.0	900.2	899.5	900.2	898.8	897.8
20°	906.0	905.5	905.8	905.0	904.0	904.0	902.8	902.2	902.5	902.2	899.5
22.5°	909.0	909.0	909.5	909.2	909.0	909.2	908.2	908.2	908.5	908.5	906.2
25°	917.5	917.2	917.8	917.8	918.0	919.8	919.0	918.8	920.0	920.0	917.8
27.5°	933.5	933.0	933.5	934.0	935.2	937.5	937.0	937.8	939.8	939.2	937.2
30°	952.0	951.5	952.8	954.2	955.2	958.8	957.2	961.0	962.8	964.2	962.8
32.5°	979.0	979.0	981.2	982.2	984.5	988.0	988.5	991.5	993.8	996.2	994.5
35°	1015.0	1014.5	1016.2	1018.0	1020.8	1024.0	1025.2	1029.2	1032.8	1034.5	1031.2
37.5°	1070.0	1067.2	1070.5	1071.5	1073.8	1074.5	1078.0	1083.0	1086.8	1086.2	1084.0
40°	1144.5	1144.0	1142.8	1141.2	1144.8	1146.0	1146.0	1152.8	1158.8	1157.8	1157.5
42.5°	1231.5	1229.2	1227.8	1227.8	1229.8	1230.2	1238.0	1243.0	1247.2	1248.2	1247.2
45°	1325.0	1322.8	1323.2	1322.2	1323.0	1326.2	1330.8	1340.0	1348.0	1348.2	1344.0
47.5°	1425.5	1418.5	1424.0	1416.2	1421.0	1423.5	1434.8	1448.2	1462.2	1464.8	1461.0
50°	1527.5	1526.8	1526.2	1524.8	1527.0	1532.5	1546.2	1567.5	1581.0	1590.0	1584.0
52.5°	1639.0	1635.2	1633.5	1631.0	1633.2	1644.0	1663.2	1681.8	1706.0	1716.2	1708.0
55°	1747.5	1746.2	1739.8	1739.5	1744.2	1761.0	1782.0	1804.8	1831.0	1842.5	1839.5
57.5°	1859.0	1851.8	1849.8	1846.8	1856.2	1872.0	1897.8	1938.8	1966.0	1979.0	1971.5
60°	1968.0	1962.5	1958.2	1957.2	1963.8	1985.8	2022.8	2072.0	2105.8	2122.8	2110.8
62.5°	2085.0	2081.5	2076.5	2070.8	2084.5	2112.8	2158.8	2213.2	2263.0	2284.0	2265.8
65°	2230.5	2223.2	2217.8	2210.5	2221.8	2257.2	2315.0	2391.8	2458.5	2483.0	2470.0
67.5°	2384.0	2377.2	2377.8	2373.2	2393.2	2442.5	2517.0	2621.2	2710.8	2752.5	2728.0
70°	2518.0	2521.8	2522.8	2541.0	2575.5	2650.5	2774.5	2937.8	3073.5	3137.2	3111.0
71°	2478.5	2486.8	2499.5	2518.5	2578.0	2666.8	2836.0	3033.8	3195.8	3303.8	3267.5
72.5°	2366.5	2371.5	2378.0	2407.0	2474.2	2591.8	2766.0	2992.0	3200.2	3340.0	3298.0
75°	2204.5	2209.2	2211.5	2231.8	2293.0	2395.5	2555.0	2755.5	2939.2	3058.2	3046.5
77.5°	1960.0	1960.8	1978.2	2009.5	2078.2	2195.5	2363.5	2571.5	2744.2	2836.8	2778.0
80°	1407.5	1398.0	1416.0	1456.2	1541.2	1675.8	1847.8	2085.2	2277.0	2363.5	2272.5
82.5°	535.5	564.5	610.2	676.8	705.5	855.0	1015.5	1155.0	1316.5	1497.0	1451.8
85°	57.5	64.8	81.2	100.8	127.2	176.0	243.2	332.0	409.2	481.0	427.0
87.5°	21.5	22.0	24.5	28.2	28.8	30.0	32.0	37.2	34.8	30.0	24.2
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°	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0
2.5°	904.0	904.2	904.0	904.2	904.2	903.2	903.5	903.0
5°	903.8	903.0	903.2	903.5	903.2	903.8	903.0	903.5
7.5°	902.5	901.0	901.5	901.5	901.0	901.8	901.2	901.0
10°	900.0	898.0	899.0	898.5	898.2	898.5	898.5	898.5
12.5°	897.8	896.5	896.8	896.5	896.2	897.0	896.8	897.0
15°	897.2	895.2	895.0	894.5	894.8	895.2	895.2	896.0
17.5°	896.8	894.2	894.0	893.5	893.8	894.8	895.0	894.5
20°	898.2	896.2	895.8	895.2	895.0	896.2	896.0	896.0
22.5°	905.2	902.8	902.5	900.5	899.8	900.5	900.0	900.0
25°	916.5	913.5	912.5	909.8	907.8	907.8	907.0	906.5
27.5°	936.8	932.2	931.2	929.0	926.2	926.8	925.2	925.0
30°	960.2	956.2	952.8	949.5	946.2	945.0	943.2	943.0
32.5°	991.0	986.5	982.2	978.2	973.8	972.0	969.0	967.5
35°	1028.8	1022.8	1017.8	1015.0	1010.5	1008.2	1006.2	1008.5
37.5°	1081.5	1074.2	1071.8	1068.5	1065.5	1062.0	1062.8	1062.0
40°	1154.5	1148.0	1145.5	1139.8	1139.0	1135.0	1137.5	1135.0
42.5°	1244.8	1232.8	1231.0	1226.5	1225.0	1222.8	1223.8	1222.0
45°	1343.0	1332.2	1330.2	1323.0	1323.2	1318.0	1320.0	1320.0
47.5°	1453.5	1442.2	1433.0	1427.8	1425.8	1422.5	1424.2	1424.0
50°	1567.5	1552.2	1542.0	1531.8	1527.2	1528.5	1525.0	1531.0
52.5°	1690.0	1667.2	1652.8	1643.0	1634.5	1636.2	1636.8	1638.5
55°	1816.8	1787.8	1766.8	1754.0	1746.2	1746.8	1749.0	1751.0
57.5°	1944.2	1908.0	1879.5	1860.5	1855.5	1857.8	1857.8	1857.5
60°	2076.5	2033.0	1996.2	1974.8	1970.2	1969.0	1978.8	1975.5
62.5°	2218.5	2166.2	2128.2	2100.8	2094.2	2098.8	2107.5	2105.5
65°	2406.8	2334.5	2285.5	2258.2	2247.2	2251.8	2263.5	2263.0
67.5°	2649.5	2548.5	2483.8	2448.8	2440.8	2446.2	2452.8	2459.0
70°	3012.5	2868.2	2775.8	2700.0	2667.5	2661.2	2667.8	2668.0
71°	3140.2	2974.5	2827.2	2734.8	2681.5	2659.0	2660.8	2649.5
72.5°	3135.0	2930.8	2758.5	2661.8	2587.8	2569.8	2561.0	2547.5
75°	2923.8	2739.8	2590.2	2484.8	2413.5	2392.2	2376.8	2376.0
77.5°	2651.5	2515.8	2351.0	2239.2	2152.5	2117.2	2101.5	2101.0
80°	2131.5	1928.2	1807.8	1740.5	1635.8	1605.5	1573.5	1561.5
82.5°	1289.0	1007.2	819.0	727.8	677.2	557.8	500.5	473.5
85°	300.2	213.2	147.0	96.5	69.5	55.2	42.5	37.5
87.5°	20.2	16.0	14.2	11.5	8.8	8.5	5.2	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)