

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: P148388

Luminaire Tested: **TLM-E04-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148388
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-E04-LED-E1-5XQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

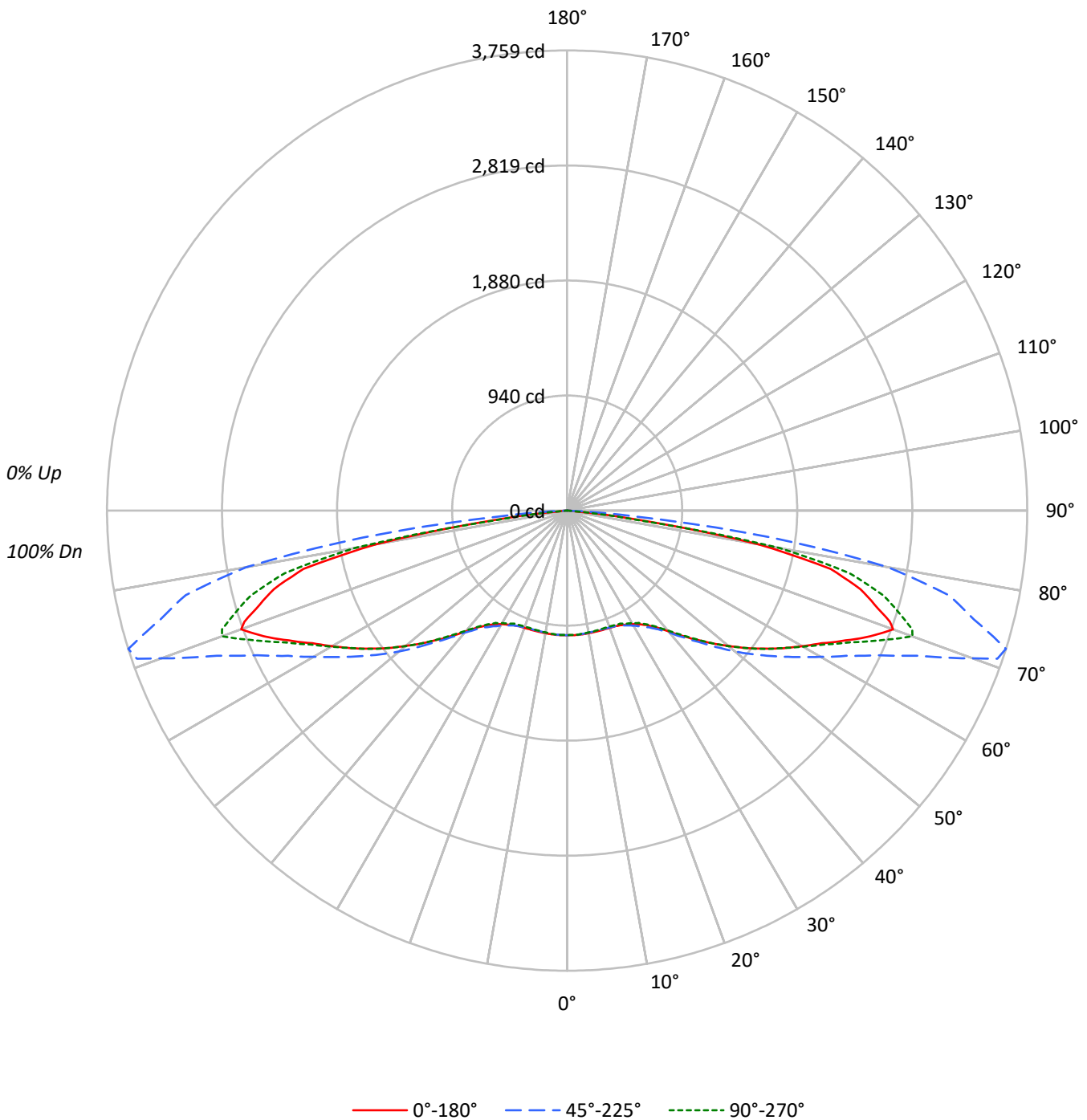
Lumens per Lamp: N/A
Luminaire Lumens: 10736.8 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 97.2
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



TEST NUMBER: P148388
CATALOG NUMBER: TLM-E04-LED-E1-5XQ-8030

Luminous Intensity Polar Plot





TEST NUMBER: P148388

CATALOG NUMBER: TLM-E04-LED-E1-5XQ-8030

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°	16343	16343	16343
5°	16433	16406	16398
10°	16587	16522	16494
15°	16920	16817	16770
20°	17432	17358	17238
25°	18302	18352	18083
30°	19874	20130	19686
35°	22401	22831	22258
40°	27012	27322	26786
45°	33878	34471	33748
50°	42964	44721	43059
55°	55081	58075	55190
60°	71158	76755	71431
65°	95416	106220	96807
70°	133101	165832	141030
75°	153989	213623	165969
80°	146539	246070	162572
85°	11945	99779	7779



TEST NUMBER: P148388

CATALOG NUMBER: TLM-E04-LED-E1-5XQ-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	0.9
10°-20°	286.8	2.7
20°-30°	480.2	4.5
30°-40°	732.1	6.8
40°-50°	1169.1	10.9
50°-60°	1797.5	16.7
60°-70°	2617.2	24.4
70°-80°	2948.3	27.5
80°-90°	608.6	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°	864.0	8.0
0°-40°	1596.1	14.9
0°-60°	4562.7	42.5
0°-90°	10736.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10736.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1019	1018	1017	1017	1017	97
15°	1017	1014	1011	1007	1008	288
25°	1032	1034	1035	1025	1020	481
35°	1142	1150	1164	1144	1135	729
45°	1491	1491	1517	1493	1485	1163
55°	1966	1972	2073	1981	1970	1769
65°	2510	2520	2794	2557	2547	2501
75°	2481	2638	3442	2856	2674	2527
85°	65	171	541	137	42	403
90°	0	0	0	0	0	



TEST NUMBER: P148388

CATALOG NUMBER: TLM-E04-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1019.0	1019.5	1019.3	1018.7	1019.0	1018.7	1018.1	1017.8	1015.9	1017.0	1018.7
5°	1019.0	1018.4	1018.1	1017.8	1017.8	1018.7	1017.8	1017.0	1016.7	1017.3	1016.4
7.5°	1018.4	1017.3	1016.7	1016.4	1016.8	1017.0	1016.2	1015.0	1015.9	1015.0	1013.9
10°	1016.8	1015.9	1016.2	1015.0	1015.3	1015.0	1013.9	1013.0	1013.6	1012.8	1011.4
12.5°	1017.3	1015.9	1015.6	1015.0	1014.8	1014.4	1013.0	1011.7	1012.0	1011.4	1010.0
15°	1017.3	1016.4	1016.2	1015.0	1014.8	1014.2	1012.5	1012.0	1011.9	1011.1	1009.4
17.5°	1017.8	1017.3	1017.3	1015.9	1015.3	1015.0	1013.1	1012.2	1013.1	1011.4	1010.2
20°	1019.6	1019.0	1019.3	1018.4	1017.3	1017.3	1015.9	1015.3	1015.6	1015.3	1012.2
22.5°	1022.9	1022.9	1023.5	1023.2	1022.9	1023.2	1022.1	1022.1	1022.4	1022.4	1019.8
25°	1032.5	1032.2	1032.8	1032.8	1033.0	1035.0	1034.2	1033.9	1035.3	1035.3	1032.8
27.5°	1050.4	1049.9	1050.5	1051.1	1052.5	1055.0	1054.4	1055.2	1057.5	1057.0	1054.7
30°	1071.3	1070.8	1072.1	1073.8	1075.0	1078.9	1077.2	1081.4	1083.4	1085.1	1083.4
32.5°	1101.6	1101.7	1104.2	1105.4	1107.9	1111.8	1112.4	1115.8	1118.3	1121.1	1119.1
35°	1142.2	1141.6	1143.6	1145.6	1148.7	1152.3	1153.7	1158.2	1162.2	1164.1	1160.5
37.5°	1204.1	1201.0	1204.7	1205.8	1208.3	1209.2	1213.1	1218.7	1223.0	1222.4	1219.8
40°	1288.0	1287.4	1286.0	1284.3	1288.2	1289.6	1289.6	1297.2	1304.0	1302.8	1302.6
42.5°	1385.8	1383.3	1381.6	1381.6	1383.9	1384.4	1393.2	1398.8	1403.6	1404.7	1403.6
45°	1491.1	1488.6	1489.1	1488.0	1488.8	1492.4	1497.5	1507.9	1517.0	1517.2	1512.4
47.5°	1604.2	1596.3	1602.4	1593.7	1599.0	1601.9	1614.6	1629.7	1645.5	1648.3	1644.1
50°	1719.0	1718.1	1717.5	1715.8	1718.4	1724.6	1740.0	1763.9	1779.1	1789.3	1782.5
52.5°	1844.4	1840.2	1838.2	1835.4	1837.9	1850.0	1871.7	1892.5	1919.8	1931.3	1922.0
55°	1966.5	1965.1	1957.8	1957.5	1962.8	1981.7	2005.3	2030.9	2060.5	2073.4	2070.0
57.5°	2092.0	2083.8	2081.6	2078.2	2088.9	2106.6	2135.6	2181.7	2212.4	2227.0	2218.6
60°	2214.6	2208.4	2203.7	2202.5	2209.9	2234.6	2276.2	2331.7	2369.6	2388.8	2375.3
62.5°	2346.2	2342.3	2336.7	2330.2	2345.7	2377.5	2429.3	2490.6	2546.6	2570.2	2549.7
65°	2510.0	2501.8	2495.7	2487.5	2500.2	2540.2	2605.1	2691.5	2766.6	2794.2	2779.6
67.5°	2682.8	2675.2	2675.8	2670.6	2693.2	2748.6	2832.4	2949.7	3050.5	3097.4	3069.8
70°	2833.6	2837.8	2838.9	2859.4	2898.3	2982.7	3122.2	3305.9	3458.7	3530.4	3500.9
71°	2789.1	2798.4	2812.8	2834.1	2901.0	3001.0	3191.4	3414.0	3596.2	3717.8	3677.0
72.5°	2663.1	2668.7	2676.0	2708.7	2784.3	2916.6	3112.6	3367.0	3601.3	3758.6	3711.3
75°	2480.8	2486.1	2488.6	2511.4	2580.4	2695.7	2875.2	3100.8	3307.6	3441.5	3428.3
77.5°	2205.6	2206.5	2226.2	2261.3	2338.7	2470.6	2659.7	2893.8	3088.2	3192.2	3126.1
80°	1583.9	1573.2	1593.5	1638.8	1734.4	1885.7	2079.3	2346.6	2562.4	2659.7	2557.3
82.5°	602.6	635.2	686.7	761.6	793.9	962.2	1142.8	1299.8	1481.5	1684.6	1633.7
85°	64.8	72.9	91.4	113.4	143.2	198.0	273.7	373.6	460.6	541.3	480.5
87.5°	24.2	24.8	27.6	31.8	32.4	33.8	36.0	41.9	39.1	33.8	27.3
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: P148388

CATALOG NUMBER: TLM-E04-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1017.3	1017.6	1017.3	1017.6	1017.6	1016.4	1016.7	1016.2
5°	1017.0	1016.2	1016.4	1016.7	1016.4	1017.0	1016.2	1016.8
7.5°	1015.6	1013.9	1014.5	1014.5	1013.9	1014.8	1014.2	1013.9
10°	1012.8	1010.5	1011.6	1011.1	1010.8	1011.1	1011.1	1011.1
12.5°	1010.2	1008.8	1009.2	1008.8	1008.6	1009.4	1009.1	1009.4
15°	1009.7	1007.5	1007.2	1006.6	1006.9	1007.4	1007.4	1008.3
17.5°	1009.2	1006.3	1006.0	1005.5	1005.8	1006.9	1007.2	1006.6
20°	1010.9	1008.6	1008.0	1007.5	1007.2	1008.6	1008.3	1008.3
22.5°	1018.7	1015.9	1015.6	1013.4	1012.5	1013.4	1012.8	1012.8
25°	1031.4	1028.0	1026.9	1023.8	1021.5	1021.5	1020.6	1020.1
27.5°	1054.2	1049.1	1048.0	1045.4	1042.3	1042.9	1041.2	1040.9
30°	1080.6	1076.1	1072.2	1068.5	1064.8	1063.4	1061.4	1061.2
32.5°	1115.2	1110.1	1105.4	1100.9	1095.8	1093.8	1090.4	1088.8
35°	1157.7	1150.9	1145.3	1142.2	1137.1	1134.6	1132.4	1134.9
37.5°	1217.0	1208.9	1206.0	1202.4	1199.0	1195.1	1195.9	1195.1
40°	1299.2	1291.9	1289.0	1282.6	1281.8	1277.2	1280.0	1277.2
42.5°	1400.7	1387.2	1385.3	1380.2	1378.5	1376.0	1377.1	1375.2
45°	1511.3	1499.2	1496.9	1488.8	1489.1	1483.2	1485.4	1485.4
47.5°	1635.6	1623.0	1612.6	1606.7	1604.4	1600.8	1602.7	1602.4
50°	1763.9	1746.8	1735.2	1723.7	1718.6	1720.0	1716.1	1722.8
52.5°	1901.8	1876.2	1859.9	1848.9	1839.3	1841.3	1841.9	1843.8
55°	2044.4	2011.8	1988.2	1973.8	1965.1	1965.6	1968.2	1970.4
57.5°	2187.9	2147.1	2115.0	2093.6	2088.0	2090.6	2090.6	2090.2
60°	2336.7	2287.8	2246.4	2222.2	2217.2	2215.8	2226.8	2223.1
62.5°	2496.5	2437.7	2395.0	2364.0	2356.7	2361.8	2371.6	2369.4
65°	2708.4	2627.1	2572.0	2541.3	2528.9	2534.0	2547.2	2546.6
67.5°	2981.6	2867.9	2795.0	2755.6	2746.6	2752.8	2760.1	2767.2
70°	3390.0	3227.7	3123.6	3038.4	3001.8	2994.8	3002.1	3002.4
71°	3533.8	3347.2	3181.6	3077.5	3017.6	2992.2	2994.2	2981.5
72.5°	3527.9	3298.0	3104.2	2995.3	2912.0	2891.8	2882.0	2866.8
75°	3290.2	3083.1	2914.8	2796.2	2716.0	2692.0	2674.6	2673.8
77.5°	2983.8	2831.0	2645.6	2519.9	2422.2	2382.6	2364.8	2364.3
80°	2398.6	2169.9	2034.3	1958.6	1840.8	1806.7	1770.7	1757.2
82.5°	1450.6	1133.5	921.6	818.9	762.1	627.6	563.2	532.8
85°	337.9	240.0	165.4	108.6	78.2	62.2	47.8	42.2
87.5°	22.8	18.0	16.0	13.0	9.9	9.6	5.9	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)