

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: P148378

Luminaire Tested: **TLM-E03-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148378
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

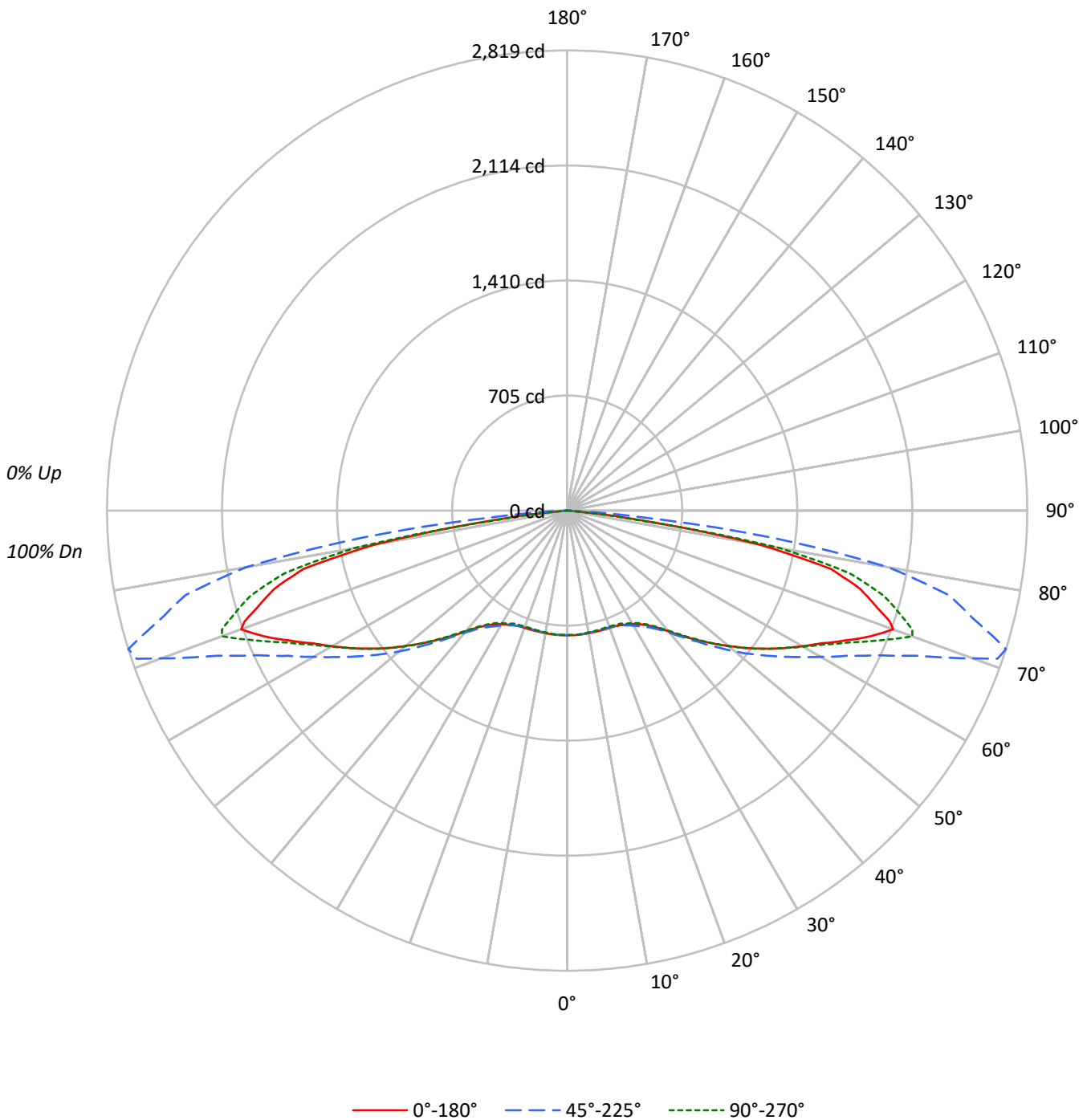
Lumens per Lamp: N/A
Luminaire Lumens: 8052.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

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°	16426	16426	16426
5°	16514	16488	16480
10°	16670	16605	16579
15°	17005	16900	16854
20°	17517	17446	17324
25°	18392	18444	18171
30°	19974	20230	19782
35°	22512	22946	22370
40°	27147	27459	26919
45°	34047	34643	33919
50°	43177	44942	43278
55°	55353	58363	55466
60°	71515	77139	71787
65°	95893	106748	97294
70°	133767	166661	141735
75°	154759	214697	166795
80°	147269	247303	163385
85°	11980	100284	7805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	0.9
10°-20°	215.1	2.7
20°-30°	360.2	4.5
30°-40°	549.1	6.8
40°-50°	876.8	10.9
50°-60°	1348.1	16.7
60°-70°	1962.9	24.4
70°-80°	2211.2	27.5
80°-90°	456.5	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°	648.0	8.0
0°-40°	1197.1	14.9
0°-60°	3422.0	42.5
0°-90°	8052.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8052.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	764	764	763	762	763	73
15°	763	761	758	755	756	216
25°	774	776	776	769	765	361
35°	857	863	873	858	851	547
45°	1118	1118	1138	1120	1114	872
55°	1475	1479	1555	1486	1478	1327
65°	1882	1890	2096	1918	1910	1876
75°	1861	1979	2581	2142	2005	1895
85°	48	128	406	103	32	302
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°	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0
2.5°	764.2	764.6	764.4	764.0	764.2	764.0	763.6	763.4	761.9	762.8	764.0
5°	764.2	763.8	763.6	763.4	763.4	764.0	763.4	762.8	762.6	763.0	762.3
7.5°	763.8	763.0	762.6	762.4	762.5	762.8	762.1	761.3	761.9	761.3	760.4
10°	762.6	761.9	762.1	761.3	761.5	761.3	760.4	759.8	760.2	759.6	758.6
12.5°	763.0	761.9	761.7	761.2	761.1	760.8	759.8	758.8	759.0	758.6	757.5
15°	763.0	762.4	762.1	761.3	761.0	760.7	759.4	759.0	759.0	758.3	757.0
17.5°	763.4	763.0	763.0	761.9	761.5	761.3	759.8	759.2	759.8	758.6	757.7
20°	764.6	764.2	764.4	763.8	763.0	763.0	761.9	761.5	761.7	761.5	759.2
22.5°	767.2	767.2	767.6	767.4	767.2	767.4	766.6	766.5	766.8	766.8	764.8
25°	774.3	774.2	774.6	774.6	774.8	776.3	775.6	775.4	776.4	776.5	774.6
27.5°	787.8	787.4	787.9	788.3	789.3	791.2	790.8	791.4	793.2	792.7	791.0
30°	803.5	803.1	804.1	805.4	806.2	809.2	807.9	811.1	812.6	813.8	812.6
32.5°	826.2	826.3	828.1	829.0	830.9	833.9	834.3	836.8	838.7	840.8	839.4
35°	856.6	856.2	857.7	859.2	861.5	864.2	865.3	868.7	871.6	873.1	870.4
37.5°	903.1	900.8	903.5	904.3	906.2	906.9	909.8	914.1	917.2	916.8	914.9
40°	966.0	965.5	964.4	963.2	966.2	967.2	967.2	972.9	978.0	977.1	976.9
42.5°	1039.4	1037.5	1036.2	1036.2	1037.9	1038.3	1044.8	1049.1	1052.7	1053.5	1052.6
45°	1118.3	1116.4	1116.8	1116.0	1116.6	1119.4	1123.1	1131.0	1137.7	1137.9	1134.4
47.5°	1203.1	1197.2	1201.8	1195.3	1199.3	1201.4	1210.9	1222.3	1234.1	1236.2	1233.1
50°	1289.2	1288.6	1288.1	1286.9	1288.8	1293.4	1305.0	1323.0	1334.4	1341.9	1336.9
52.5°	1383.3	1380.2	1378.7	1376.6	1378.5	1387.5	1403.8	1419.4	1439.9	1448.5	1441.5
55°	1474.8	1473.8	1468.3	1468.1	1472.1	1486.3	1504.0	1523.2	1545.3	1555.0	1552.5
57.5°	1569.0	1562.9	1561.2	1558.6	1566.7	1580.0	1601.7	1636.3	1659.3	1670.2	1664.0
60°	1661.0	1656.3	1652.8	1651.9	1657.4	1676.0	1707.2	1748.8	1777.2	1791.6	1781.4
62.5°	1759.8	1756.8	1752.6	1747.7	1759.3	1783.2	1822.0	1868.0	1910.0	1927.7	1912.2
65°	1882.5	1876.4	1871.8	1865.6	1875.1	1905.1	1953.8	2018.6	2075.0	2095.6	2084.7
67.5°	2012.1	2006.4	2006.8	2003.0	2019.9	2061.5	2124.3	2212.3	2287.8	2323.1	2302.4
70°	2125.2	2128.3	2129.2	2144.6	2173.7	2237.0	2341.6	2479.4	2594.0	2647.8	2625.6
71°	2091.8	2098.8	2109.6	2125.6	2175.8	2250.7	2393.6	2560.4	2697.2	2788.3	2757.7
72.5°	1997.3	2001.6	2007.0	2031.5	2088.3	2187.4	2334.5	2525.2	2701.0	2818.9	2783.5
75°	1860.6	1864.6	1866.5	1883.6	1935.3	2021.8	2156.4	2325.6	2480.7	2581.2	2571.2
77.5°	1654.2	1654.9	1669.6	1696.0	1754.0	1853.0	1994.8	2170.3	2316.1	2394.2	2344.6
80°	1187.9	1179.9	1195.1	1229.0	1300.8	1414.3	1559.5	1759.9	1921.8	1994.8	1918.0
82.5°	452.0	476.4	515.0	571.2	595.4	721.6	857.1	974.8	1111.1	1263.4	1225.3
85°	48.5	54.7	68.6	85.0	107.4	148.5	205.3	280.2	345.4	406.0	360.4
87.5°	18.2	18.6	20.7	23.8	24.2	25.3	27.0	31.4	29.3	25.3	20.4
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°	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0
2.5°	763.0	763.2	763.0	763.2	763.2	762.3	762.5	762.1
5°	762.8	762.1	762.3	762.6	762.3	762.8	762.1	762.6
7.5°	761.7	760.4	760.9	760.9	760.4	761.0	760.7	760.4
10°	759.6	757.9	758.8	758.3	758.1	758.3	758.3	758.4
12.5°	757.7	756.6	756.8	756.6	756.4	757.0	756.8	757.0
15°	757.3	755.6	755.4	755.0	755.2	755.6	755.6	756.2
17.5°	756.8	754.7	754.6	754.1	754.3	755.2	755.4	754.9
20°	758.1	756.4	756.0	755.6	755.4	756.4	756.2	756.2
22.5°	764.0	761.9	761.7	760.0	759.4	760.0	759.6	759.6
25°	773.5	771.0	770.2	767.9	766.1	766.1	765.5	765.0
27.5°	790.6	786.8	786.0	784.0	781.8	782.2	780.9	780.7
30°	810.4	807.1	804.1	801.4	798.6	797.6	796.1	795.8
32.5°	836.4	832.6	829.0	825.6	821.8	820.4	817.8	816.6
35°	868.2	863.2	859.0	856.6	852.9	850.9	849.2	851.2
37.5°	912.8	906.6	904.6	901.8	899.3	896.3	897.0	896.3
40°	974.4	968.9	966.8	961.9	961.3	957.9	960.0	957.9
42.5°	1050.6	1040.4	1039.0	1035.2	1033.9	1032.0	1032.8	1031.4
45°	1133.5	1124.4	1122.7	1116.6	1116.8	1112.4	1114.1	1114.1
47.5°	1226.7	1217.2	1209.5	1205.0	1203.3	1200.6	1202.0	1201.8
50°	1323.0	1310.1	1301.4	1292.8	1289.0	1290.0	1287.1	1292.2
52.5°	1426.4	1407.1	1394.9	1386.6	1379.5	1381.0	1381.4	1382.8
55°	1533.3	1508.8	1491.1	1480.4	1473.8	1474.2	1476.1	1477.8
57.5°	1640.9	1610.4	1586.3	1570.3	1566.0	1568.0	1567.9	1567.7
60°	1752.6	1715.8	1684.8	1666.7	1662.8	1661.8	1670.0	1667.3
62.5°	1872.4	1828.3	1796.2	1773.0	1767.5	1771.3	1778.7	1777.0
65°	2031.3	1970.3	1929.0	1906.0	1896.6	1900.4	1910.4	1910.0
67.5°	2236.2	2150.9	2096.3	2066.7	2060.0	2064.6	2070.1	2075.4
70°	2542.6	2420.8	2342.7	2278.8	2251.4	2246.1	2251.6	2251.8
71°	2650.3	2510.5	2386.2	2308.1	2263.2	2244.2	2245.6	2236.2
72.5°	2645.9	2473.5	2328.1	2246.5	2184.0	2168.8	2161.4	2150.0
75°	2467.6	2312.3	2186.2	2097.1	2037.0	2019.0	2006.0	2005.3
77.5°	2237.8	2123.3	1984.2	1889.9	1816.7	1786.9	1773.6	1773.2
80°	1799.0	1627.4	1525.7	1469.0	1380.6	1355.0	1328.0	1317.9
82.5°	1087.9	850.1	691.2	614.2	571.6	470.7	422.4	399.6
85°	253.4	180.0	124.1	81.5	58.7	46.6	35.9	31.6
87.5°	17.1	13.5	12.0	9.7	7.4	7.2	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)