

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: P148413

Luminaire Tested: **TLM-F06-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148413  
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-F06-LED-E1-5XQ-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

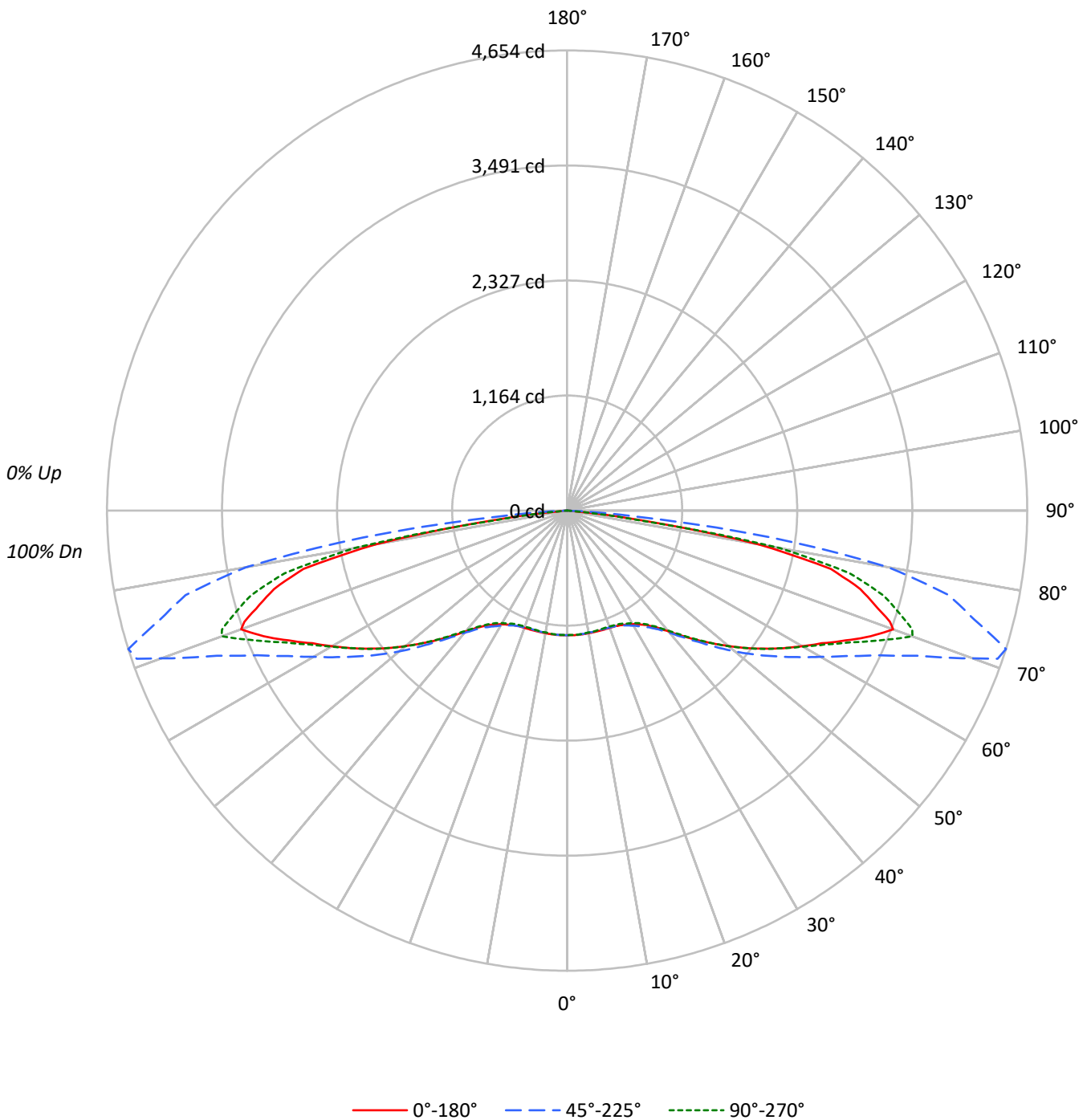
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13295.3 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 156.5  
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°	13559	13559	13559
5°	13634	13611	13604
10°	13761	13707	13684
15°	14038	13952	13914
20°	14460	14402	14302
25°	15184	15226	15003
30°	16488	16700	16332
35°	18586	18942	18466
40°	22409	22669	22224
45°	28107	28598	28000
50°	35645	37102	35725
55°	45698	48183	45790
60°	59038	63679	59262
65°	79162	88125	80316
70°	110427	137584	117005
75°	127756	177234	137696
80°	121575	204154	134877
85°	9893	82783	6459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	0.9
10°-20°	355.1	2.7
20°-30°	594.7	4.5
30°-40°	906.6	6.8
40°-50°	1447.6	10.9
50°-60°	2225.9	16.7
60°-70°	3240.9	24.4
70°-80°	3650.8	27.5
80°-90°	753.6	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°	1069.9	8.0
0°-40°	1976.5	14.9
0°-60°	5650.0	42.5
0°-90°	13295.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13295.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1262	1261	1260	1259	1259	120
15°	1260	1256	1252	1247	1249	357
25°	1278	1280	1282	1270	1263	596
35°	1414	1425	1442	1416	1405	903
45°	1846	1846	1879	1849	1839	1440
55°	2435	2442	2568	2453	2440	2191
65°	3108	3121	3460	3166	3153	3097
75°	3072	3267	4262	3536	3311	3129
85°	80	211	670	170	52	499
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°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1261.8	1262.4	1262.2	1261.4	1261.8	1261.4	1260.8	1260.4	1258.0	1259.4	1261.4
5°	1261.8	1261.1	1260.8	1260.4	1260.4	1261.4	1260.4	1259.4	1259.0	1259.7	1258.7
7.5°	1261.0	1259.7	1259.0	1258.7	1259.0	1259.4	1258.3	1256.9	1258.0	1256.9	1255.5
10°	1259.0	1258.0	1258.3	1256.9	1257.3	1256.9	1255.5	1254.5	1255.2	1254.1	1252.4
12.5°	1259.7	1258.0	1257.6	1256.9	1256.6	1256.2	1254.5	1252.8	1253.1	1252.4	1250.6
15°	1259.7	1258.7	1258.3	1256.9	1256.6	1255.9	1253.8	1253.1	1253.1	1252.0	1249.9
17.5°	1260.4	1259.7	1259.7	1258.0	1257.3	1256.9	1254.5	1253.4	1254.5	1252.4	1251.0
20°	1262.4	1261.8	1262.1	1261.1	1259.7	1259.7	1257.9	1257.3	1257.6	1257.3	1253.4
22.5°	1266.6	1266.6	1267.4	1267.0	1266.6	1267.0	1265.6	1265.6	1266.0	1265.9	1262.8
25°	1278.5	1278.1	1278.9	1278.8	1279.2	1281.6	1280.6	1280.2	1282.0	1282.0	1278.9
27.5°	1300.8	1300.1	1300.8	1301.5	1303.2	1306.4	1305.7	1306.8	1309.5	1308.8	1306.0
30°	1326.6	1325.9	1327.6	1329.7	1331.1	1336.0	1333.9	1339.1	1341.6	1343.6	1341.6
32.5°	1364.2	1364.2	1367.3	1368.7	1371.9	1376.8	1377.4	1381.6	1384.8	1388.2	1385.8
35°	1414.4	1413.7	1416.1	1418.6	1422.4	1426.9	1428.6	1434.2	1439.1	1441.5	1437.0
37.5°	1491.0	1487.2	1491.7	1493.1	1496.2	1497.3	1502.2	1509.1	1514.4	1513.7	1510.5
40°	1594.8	1594.1	1592.4	1590.3	1595.2	1596.9	1596.9	1606.3	1614.7	1613.3	1612.9
42.5°	1716.1	1712.9	1710.8	1710.8	1713.6	1714.3	1725.1	1732.1	1738.0	1739.4	1738.0
45°	1846.4	1843.2	1843.9	1842.5	1843.6	1848.1	1854.4	1867.3	1878.4	1878.7	1872.8
47.5°	1986.4	1976.6	1984.3	1973.5	1980.1	1983.6	1999.2	2018.1	2037.6	2041.1	2035.8
50°	2128.6	2127.5	2126.8	2124.7	2127.8	2135.5	2154.6	2184.3	2203.1	2215.6	2207.3
52.5°	2283.9	2278.7	2276.2	2272.7	2275.9	2290.9	2317.7	2343.5	2377.2	2391.6	2380.0
55°	2435.1	2433.4	2424.3	2424.0	2430.5	2453.9	2483.2	2514.9	2551.5	2567.5	2563.3
57.5°	2590.4	2580.4	2577.6	2573.4	2586.6	2608.6	2644.4	2701.6	2739.6	2757.7	2747.2
60°	2742.4	2734.7	2728.8	2727.4	2736.4	2767.1	2818.6	2887.3	2934.3	2958.0	2941.3
62.5°	2905.4	2900.5	2893.6	2885.5	2904.7	2944.0	3008.1	3084.1	3153.4	3182.7	3157.2
65°	3108.1	3098.0	3090.4	3080.2	3096.0	3145.4	3225.9	3332.8	3425.8	3460.0	3441.9
67.5°	3322.0	3312.6	3313.3	3307.0	3334.9	3403.6	3507.4	3652.6	3777.4	3835.5	3801.4
70°	3508.8	3514.0	3515.4	3540.8	3588.9	3693.4	3866.2	4093.7	4282.8	4371.7	4335.1
71°	3453.7	3465.2	3483.0	3509.5	3592.4	3716.0	3951.9	4227.4	4453.2	4603.7	4553.2
72.5°	3297.6	3304.6	3313.7	3354.1	3447.8	3611.6	3854.4	4169.3	4459.4	4654.2	4595.6
75°	3071.9	3078.5	3081.7	3109.9	3195.2	3338.1	3560.3	3839.7	4095.8	4261.6	4245.2
77.5°	2731.2	2732.2	2756.6	2800.2	2896.0	3059.4	3293.5	3583.3	3824.0	3952.9	3871.0
80°	1961.3	1948.1	1973.2	2029.2	2147.7	2335.1	2574.8	2905.7	3172.9	3293.5	3166.6
82.5°	746.2	786.6	850.4	943.0	983.1	1191.4	1415.1	1609.4	1834.5	2086.0	2023.0
85°	80.1	90.2	113.2	140.4	177.3	245.2	338.9	462.6	570.3	670.3	595.0
87.5°	30.0	30.7	34.1	39.4	40.0	41.8	44.6	51.9	48.4	41.8	33.8
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°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1259.7	1260.0	1259.7	1260.0	1260.0	1258.6	1259.0	1258.3
5°	1259.4	1258.3	1258.6	1259.0	1258.6	1259.4	1258.3	1259.0
7.5°	1257.6	1255.5	1256.2	1256.2	1255.5	1256.6	1255.8	1255.5
10°	1254.1	1251.4	1252.8	1252.1	1251.7	1252.0	1252.0	1252.0
12.5°	1251.0	1249.2	1249.6	1249.2	1248.9	1250.0	1249.6	1250.0
15°	1250.3	1247.5	1247.2	1246.4	1246.8	1247.5	1247.5	1248.6
17.5°	1249.6	1246.1	1245.8	1245.0	1245.4	1246.8	1247.2	1246.4
20°	1251.7	1248.9	1248.2	1247.5	1247.1	1248.9	1248.6	1248.6
22.5°	1261.4	1257.9	1257.6	1254.8	1253.8	1254.8	1254.1	1254.2
25°	1277.1	1273.0	1271.6	1267.7	1264.9	1264.9	1263.9	1263.2
27.5°	1305.4	1299.1	1297.6	1294.5	1290.7	1291.4	1289.3	1288.9
30°	1338.1	1332.5	1327.6	1323.1	1318.6	1316.8	1314.4	1314.0
32.5°	1380.9	1374.7	1368.8	1363.2	1356.9	1354.4	1350.3	1348.1
35°	1433.6	1425.2	1418.2	1414.4	1408.1	1405.0	1402.2	1405.3
37.5°	1507.0	1496.9	1493.4	1488.9	1484.8	1479.9	1480.9	1479.8
40°	1608.8	1599.7	1596.2	1588.2	1587.2	1581.6	1585.0	1581.6
42.5°	1734.5	1717.8	1715.4	1709.1	1707.0	1703.9	1705.2	1702.8
45°	1871.4	1856.5	1853.6	1843.6	1844.0	1836.6	1839.4	1839.4
47.5°	2025.4	2009.7	1996.8	1989.6	1986.8	1982.2	1984.6	1984.3
50°	2184.3	2163.0	2148.7	2134.4	2128.2	2129.9	2125.0	2133.4
52.5°	2355.0	2323.3	2303.0	2289.4	2277.6	2280.1	2280.7	2283.2
55°	2531.6	2491.2	2461.9	2444.2	2433.4	2434.1	2437.2	2440.0
57.5°	2709.3	2658.8	2619.0	2592.5	2585.6	2588.7	2588.7	2588.4
60°	2893.5	2832.9	2781.7	2751.8	2745.5	2743.8	2757.4	2752.8
62.5°	3091.4	3018.6	2965.6	2927.3	2918.2	2924.5	2936.8	2934.0
65°	3353.7	3253.0	3184.8	3146.9	3131.4	3137.8	3154.1	3153.4
67.5°	3692.0	3551.3	3461.0	3412.2	3401.1	3408.8	3417.8	3426.6
70°	4197.8	3996.8	3867.9	3762.4	3717.1	3708.4	3717.4	3717.8
71°	4375.8	4144.9	3939.7	3810.8	3736.6	3705.2	3707.7	3692.0
72.5°	4368.5	4083.9	3843.9	3709.1	3606.0	3580.9	3568.7	3549.8
75°	4074.2	3817.8	3609.5	3462.4	3363.2	3333.6	3311.9	3310.9
77.5°	3694.8	3505.6	3276.0	3120.4	2999.4	2950.3	2928.4	2927.6
80°	2970.2	2687.0	2519.0	2425.4	2279.4	2237.2	2192.6	2175.9
82.5°	1796.2	1403.6	1141.2	1014.1	943.8	777.2	697.4	659.8
85°	418.4	297.2	204.8	134.5	96.8	77.0	59.2	52.3
87.5°	28.2	22.3	19.9	16.0	12.2	11.8	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)