

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: P148398

Luminaire Tested: **TLM-E05-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148398
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-E05-LED-E1-5XQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

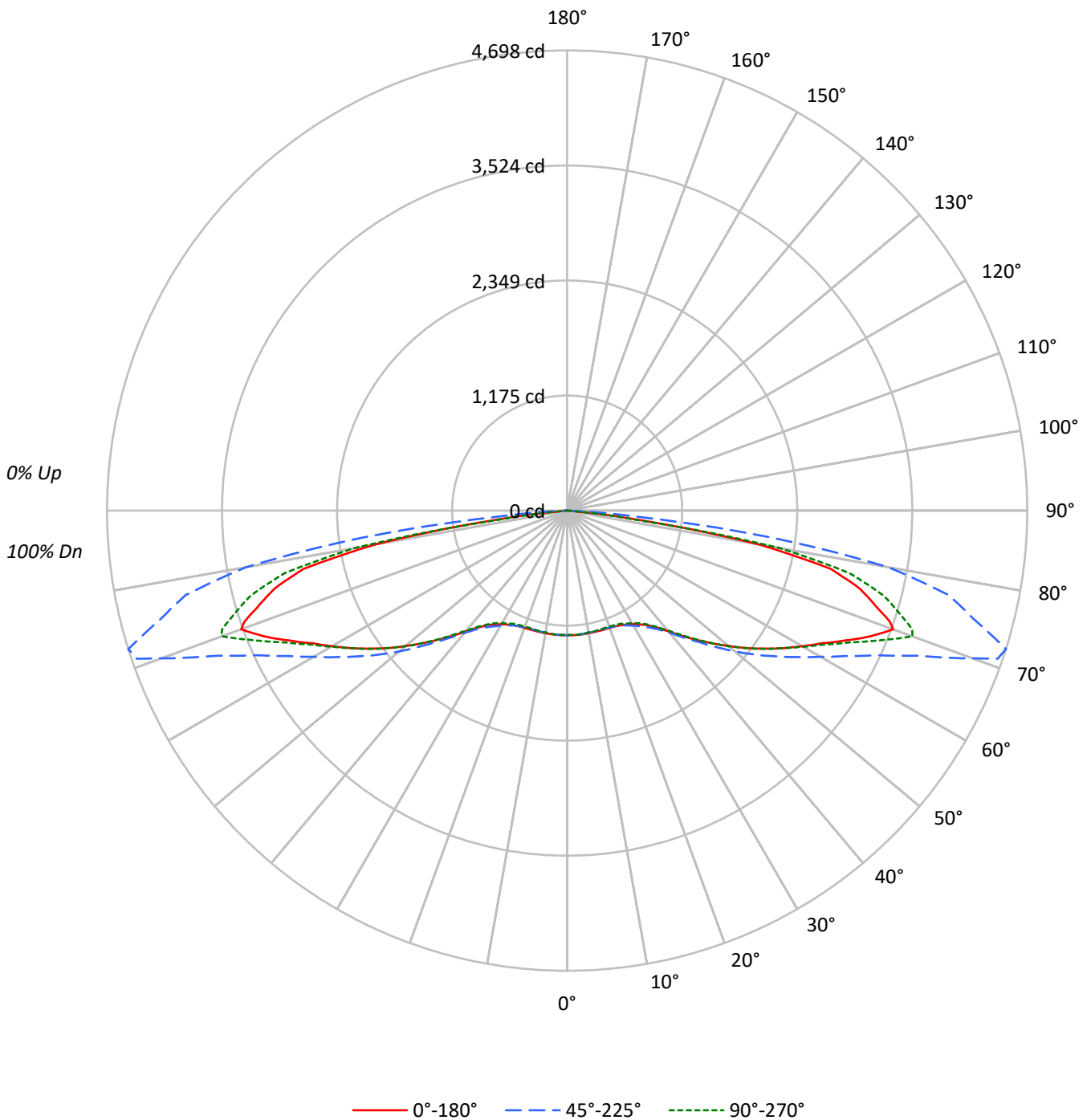
Lumens per Lamp: N/A
Luminaire Lumens: 13421.1 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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°	16491	16491	16491
5°	16582	16554	16545
10°	16737	16671	16643
15°	17073	16969	16922
20°	17588	17516	17395
25°	18468	18518	18247
30°	20054	20312	19864
35°	22605	23038	22459
40°	27254	27571	27029
45°	34183	34782	34054
50°	43349	45125	43450
55°	55578	58601	55688
60°	71802	77448	72077
65°	96278	107178	97680
70°	134304	167330	142305
75°	155381	215554	167467
80°	147857	248291	164041
85°	12038	100677	7842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	0.9
10°-20°	358.5	2.7
20°-30°	600.3	4.5
30°-40°	915.2	6.8
40°-50°	1461.3	10.9
50°-60°	2246.9	16.7
60°-70°	3271.5	24.4
70°-80°	3685.3	27.5
80°-90°	760.8	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°	1080.0	8.0
0°-40°	1995.2	14.9
0°-60°	5703.4	42.5
0°-90°	13421.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13421.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1274	1273	1272	1271	1271	122
15°	1272	1268	1264	1259	1260	361
25°	1291	1293	1294	1282	1275	601
35°	1428	1438	1455	1430	1419	912
45°	1864	1863	1896	1866	1857	1454
55°	2458	2465	2592	2476	2463	2212
65°	3138	3150	3493	3196	3183	3127
75°	3101	3298	4302	3569	3342	3158
85°	81	213	677	171	53	503
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°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1273.8	1274.4	1274.1	1273.4	1273.8	1273.4	1272.6	1272.3	1269.8	1271.2	1273.4
5°	1273.8	1273.0	1272.7	1272.4	1272.3	1273.4	1272.3	1271.3	1270.9	1271.6	1270.6
7.5°	1273.1	1271.6	1270.9	1270.6	1270.9	1271.3	1270.2	1268.8	1269.8	1268.8	1267.4
10°	1271.0	1269.9	1270.2	1268.8	1269.2	1268.8	1267.4	1266.3	1267.0	1266.0	1264.2
12.5°	1271.6	1269.9	1269.5	1268.8	1268.4	1268.1	1266.3	1264.6	1264.9	1264.2	1262.5
15°	1271.6	1270.6	1270.2	1268.8	1268.5	1267.7	1265.6	1264.9	1264.9	1263.9	1261.8
17.5°	1272.4	1271.6	1271.6	1269.9	1269.2	1268.8	1266.3	1265.3	1266.3	1264.2	1262.8
20°	1274.4	1273.8	1274.1	1273.1	1271.6	1271.6	1269.8	1269.2	1269.5	1269.2	1265.3
22.5°	1278.6	1278.6	1279.4	1279.0	1278.6	1279.0	1277.6	1277.6	1278.0	1278.0	1274.8
25°	1290.6	1290.2	1290.9	1290.9	1291.3	1293.8	1292.7	1292.4	1294.1	1294.1	1291.0
27.5°	1313.1	1312.4	1313.1	1313.8	1315.6	1318.7	1318.0	1319.1	1321.9	1321.2	1318.4
30°	1339.2	1338.4	1340.2	1342.3	1343.7	1348.6	1346.5	1351.8	1354.3	1356.4	1354.2
32.5°	1377.1	1377.1	1380.3	1381.7	1384.8	1389.8	1390.5	1394.7	1397.9	1401.4	1398.9
35°	1427.8	1427.1	1429.5	1432.0	1435.8	1440.4	1442.2	1447.8	1452.7	1455.2	1450.6
37.5°	1505.2	1501.2	1505.8	1507.2	1510.4	1511.4	1516.4	1523.4	1528.7	1528.0	1524.8
40°	1609.9	1609.2	1607.4	1605.3	1610.3	1612.0	1612.0	1621.5	1629.9	1628.6	1628.2
42.5°	1732.3	1729.1	1727.0	1727.0	1729.8	1730.6	1741.4	1748.4	1754.4	1755.9	1754.4
45°	1863.8	1860.6	1861.4	1859.9	1861.0	1865.6	1871.9	1884.9	1896.2	1896.5	1890.6
47.5°	2005.2	1995.3	2003.1	1992.2	1998.9	2002.4	2018.2	2037.2	2056.9	2060.4	2055.1
50°	2148.6	2147.6	2146.9	2144.8	2148.0	2155.7	2175.0	2204.9	2223.9	2236.6	2228.1
52.5°	2305.5	2300.2	2297.8	2294.2	2297.4	2312.6	2339.6	2365.6	2399.8	2414.1	2402.6
55°	2458.1	2456.4	2447.2	2446.8	2453.6	2477.1	2506.6	2538.6	2575.6	2591.8	2587.5
57.5°	2615.0	2604.8	2602.0	2597.8	2611.1	2633.2	2669.5	2727.1	2765.5	2783.8	2773.2
60°	2768.3	2760.6	2754.6	2753.1	2762.3	2793.2	2845.3	2914.6	2962.0	2986.0	2969.1
62.5°	2932.9	2927.9	2920.9	2912.8	2932.2	2971.9	3036.6	3113.3	3183.2	3212.8	3187.1
65°	3137.5	3127.4	3119.6	3109.4	3125.2	3175.2	3256.4	3364.4	3458.2	3492.7	3474.4
67.5°	3353.4	3344.0	3344.7	3338.4	3366.5	3435.8	3540.6	3687.2	3813.1	3871.8	3837.4
70°	3542.0	3547.2	3548.6	3574.3	3622.8	3728.3	3902.8	4132.4	4323.3	4413.0	4376.1
71°	3486.4	3498.0	3515.9	3542.6	3626.4	3751.2	3989.2	4267.4	4495.3	4647.2	4596.2
72.5°	3328.8	3335.9	3345.0	3385.8	3480.4	3645.7	3890.8	4208.7	4501.6	4698.2	4639.2
75°	3101.0	3107.6	3110.8	3139.3	3225.5	3369.6	3594.0	3876.0	4134.5	4301.9	4285.4
77.5°	2757.0	2758.1	2782.7	2826.7	2923.4	3088.3	3324.6	3617.2	3860.2	3990.3	3907.6
80°	1979.8	1966.5	1991.8	2048.4	2168.0	2357.2	2599.1	2933.2	3203.0	3324.6	3196.6
82.5°	753.3	794.1	858.4	952.0	992.4	1202.7	1428.4	1624.7	1851.8	2105.8	2042.1
85°	80.9	91.1	114.3	141.8	179.0	247.6	342.2	467.0	575.7	676.6	600.6
87.5°	30.2	30.9	34.5	39.8	40.5	42.2	45.0	52.4	48.9	42.2	34.1
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°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1271.6	1272.0	1271.6	1271.9	1272.0	1270.6	1270.9	1270.2
5°	1271.3	1270.2	1270.6	1270.9	1270.6	1271.2	1270.2	1270.9
7.5°	1269.5	1267.4	1268.1	1268.1	1267.4	1268.4	1267.8	1267.4
10°	1266.0	1263.2	1264.6	1263.8	1263.5	1263.8	1263.9	1263.8
12.5°	1262.8	1261.0	1261.4	1261.0	1260.7	1261.8	1261.4	1261.8
15°	1262.1	1259.3	1259.0	1258.2	1258.6	1259.3	1259.3	1260.4
17.5°	1261.4	1257.9	1257.6	1256.8	1257.2	1258.6	1258.9	1258.2
20°	1263.5	1260.7	1260.0	1259.3	1258.9	1260.7	1260.4	1260.4
22.5°	1273.4	1269.9	1269.5	1266.7	1265.6	1266.7	1266.0	1266.0
25°	1289.2	1285.0	1283.6	1279.7	1276.9	1276.9	1275.8	1275.2
27.5°	1317.7	1311.4	1310.0	1306.8	1302.9	1303.6	1301.5	1301.2
30°	1350.8	1345.1	1340.2	1335.6	1331.1	1329.3	1326.8	1326.5
32.5°	1394.0	1387.6	1381.7	1376.1	1369.8	1367.3	1363.0	1361.0
35°	1447.1	1438.6	1431.6	1427.7	1421.4	1418.2	1415.4	1418.6
37.5°	1521.3	1511.1	1507.6	1503.0	1498.8	1493.9	1494.9	1493.8
40°	1624.0	1614.9	1611.3	1603.2	1602.2	1596.6	1600.0	1596.6
42.5°	1751.0	1734.0	1731.6	1725.2	1723.2	1720.0	1721.4	1718.9
45°	1889.1	1874.0	1871.2	1861.0	1861.4	1854.0	1856.8	1856.8
47.5°	2044.6	2028.8	2015.7	2008.4	2005.5	2001.0	2003.4	2003.1
50°	2204.9	2183.5	2169.0	2154.6	2148.3	2150.1	2145.2	2153.6
52.5°	2377.2	2345.2	2324.8	2311.1	2299.2	2301.6	2302.4	2304.8
55°	2555.5	2514.8	2485.2	2467.3	2456.4	2457.1	2460.2	2463.0
57.5°	2734.9	2683.9	2643.8	2617.1	2610.0	2613.2	2613.2	2612.9
60°	2920.9	2859.7	2808.0	2777.8	2771.5	2769.7	2783.4	2778.9
62.5°	3120.7	3047.2	2993.7	2955.0	2945.9	2952.2	2964.5	2961.7
65°	3385.4	3283.8	3214.9	3176.6	3161.1	3167.4	3184.0	3183.2
67.5°	3726.9	3584.8	3493.8	3444.5	3433.3	3441.0	3450.2	3459.0
70°	4237.6	4034.6	3904.5	3798.0	3752.2	3743.4	3752.6	3753.0
71°	4417.2	4184.1	3977.0	3846.8	3772.0	3740.3	3742.7	3727.0
72.5°	4409.8	4122.5	3880.2	3744.2	3640.0	3614.7	3602.4	3583.4
75°	4112.7	3853.9	3643.6	3495.2	3395.0	3365.0	3343.3	3342.2
77.5°	3729.8	3538.8	3307.0	3149.8	3027.8	2978.2	2956.0	2955.4
80°	2998.3	2712.4	2542.9	2448.2	2300.9	2258.4	2213.4	2196.5
82.5°	1813.2	1416.8	1152.0	1023.7	952.6	784.6	704.0	666.0
85°	422.4	300.0	206.8	135.8	97.8	77.7	59.8	52.7
87.5°	28.5	22.5	20.0	16.2	12.3	12.0	7.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)