

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: P148414

Luminaire Tested: **TLM-F06-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148414
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

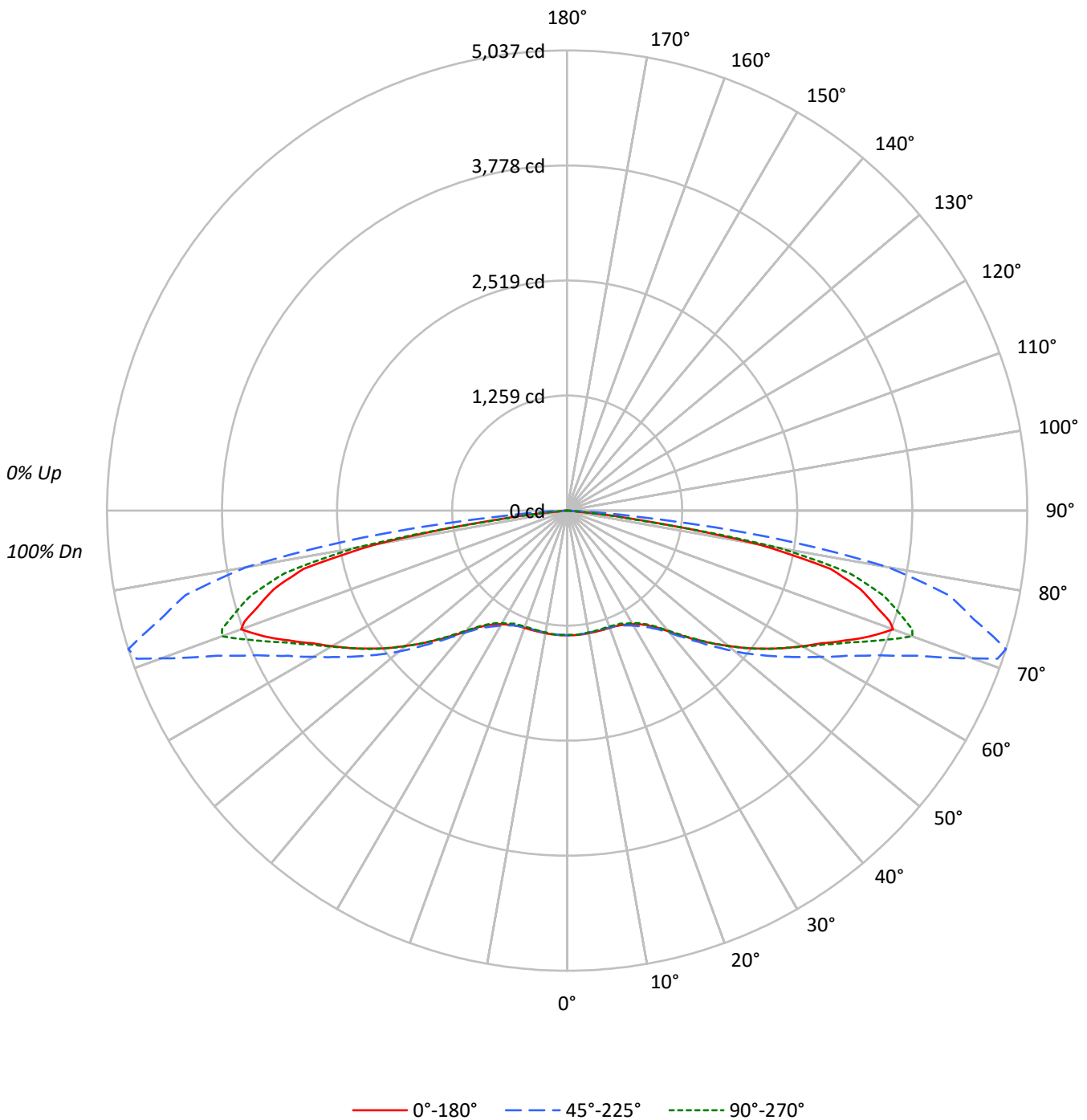
Lumens per Lamp: N/A
Luminaire Lumens: 14387.9 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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°	14673	14673	14673
5°	14754	14729	14721
10°	14892	14834	14809
15°	15191	15098	15056
20°	15649	15585	15476
25°	16433	16478	16235
30°	17843	18073	17674
35°	20113	20499	19984
40°	24251	24532	24050
45°	30416	30949	30302
50°	38572	40151	38661
55°	49453	52140	49552
60°	63890	68913	64131
65°	85670	95366	86918
70°	119504	148889	126620
75°	138257	191798	149012
80°	131567	220928	145961
85°	10708	89588	6990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	0.9
10°-20°	384.3	2.7
20°-30°	643.6	4.5
30°-40°	981.1	6.8
40°-50°	1566.6	10.9
50°-60°	2408.8	16.7
60°-70°	3507.2	24.4
70°-80°	3950.8	27.5
80°-90°	815.6	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°	1157.8	8.0
0°-40°	2138.9	14.9
0°-60°	6114.3	42.5
0°-90°	14387.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14387.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1366	1365	1363	1362	1362	130
15°	1363	1359	1355	1349	1351	387
25°	1384	1386	1387	1374	1367	645
35°	1531	1542	1560	1533	1521	977
45°	1998	1998	2033	2000	1991	1559
55°	2635	2643	2778	2655	2640	2371
65°	3364	3377	3744	3426	3413	3352
75°	3324	3535	4612	3827	3583	3386
85°	87	229	725	184	57	540
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°	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2
2.5°	1365.5	1366.2	1365.9	1365.1	1365.5	1365.1	1364.4	1364.0	1361.4	1362.9	1365.1
5°	1365.5	1364.8	1364.4	1364.0	1364.0	1365.1	1364.0	1362.9	1362.5	1363.2	1362.1
7.5°	1364.8	1363.2	1362.5	1362.1	1362.5	1362.8	1361.7	1360.2	1361.3	1360.2	1358.7
10°	1362.5	1361.4	1361.7	1360.2	1360.6	1360.2	1358.7	1357.6	1358.3	1357.2	1355.3
12.5°	1363.2	1361.4	1361.0	1360.2	1359.8	1359.5	1357.6	1355.7	1356.0	1355.3	1353.4
15°	1363.2	1362.1	1361.7	1360.2	1359.8	1359.1	1356.8	1356.0	1356.0	1354.9	1352.7
17.5°	1364.0	1363.2	1363.2	1361.4	1360.6	1360.2	1357.6	1356.4	1357.6	1355.3	1353.8
20°	1366.2	1365.5	1365.9	1364.7	1363.2	1363.2	1361.3	1360.6	1361.0	1360.6	1356.4
22.5°	1370.8	1370.8	1371.5	1371.1	1370.8	1371.1	1369.6	1369.6	1370.0	1370.0	1366.6
25°	1383.6	1383.2	1384.0	1384.0	1384.3	1387.0	1385.8	1385.5	1387.3	1387.4	1384.0
27.5°	1407.7	1406.9	1407.7	1408.5	1410.4	1413.7	1413.0	1414.1	1417.2	1416.4	1413.3
30°	1435.6	1434.8	1436.8	1439.0	1440.5	1445.8	1443.6	1449.2	1451.8	1454.1	1451.8
32.5°	1476.3	1476.3	1479.8	1481.2	1484.6	1489.9	1490.6	1495.2	1498.6	1502.4	1499.7
35°	1530.6	1529.8	1532.5	1535.2	1539.3	1544.2	1546.1	1552.1	1557.4	1560.0	1555.1
37.5°	1613.6	1609.4	1614.3	1615.8	1619.2	1620.3	1625.6	1633.1	1638.8	1638.1	1634.7
40°	1725.9	1725.1	1723.2	1721.0	1726.3	1728.2	1728.2	1738.3	1747.4	1745.9	1745.5
42.5°	1857.0	1853.7	1851.4	1851.4	1854.5	1855.2	1866.9	1874.4	1880.8	1882.4	1880.8
45°	1998.1	1994.7	1995.4	1993.9	1995.1	2000.0	2006.8	2020.7	2032.8	2033.1	2026.8
47.5°	2149.6	2139.0	2147.4	2135.7	2142.8	2146.6	2163.6	2183.9	2205.1	2208.8	2203.1
50°	2303.4	2302.3	2301.6	2299.3	2302.7	2311.0	2331.7	2363.8	2384.1	2397.7	2388.7
52.5°	2471.6	2465.9	2463.3	2459.5	2462.9	2479.1	2508.2	2536.1	2572.6	2588.1	2575.6
55°	2635.2	2633.3	2623.5	2623.2	2630.3	2655.6	2687.2	2721.5	2761.2	2778.4	2774.0
57.5°	2803.4	2792.4	2789.4	2784.9	2799.2	2822.9	2861.8	2923.6	2964.7	2984.3	2973.0
60°	2967.8	2959.4	2953.0	2951.5	2961.3	2994.5	3050.3	3124.5	3175.4	3201.1	3183.0
62.5°	3144.1	3138.9	3131.3	3122.6	3143.4	3186.0	3255.4	3337.5	3412.6	3444.2	3416.7
65°	3363.6	3352.6	3344.4	3333.4	3350.4	3403.9	3491.0	3606.7	3707.4	3744.3	3724.7
67.5°	3595.0	3584.8	3585.6	3578.8	3609.0	3683.2	3795.6	3952.8	4087.8	4150.7	4113.8
70°	3797.2	3802.8	3804.3	3831.8	3883.8	3996.9	4183.9	4430.1	4634.8	4730.9	4691.4
71°	3737.6	3750.0	3769.2	3797.8	3887.6	4021.4	4276.6	4574.8	4819.2	4982.0	4927.4
72.5°	3568.6	3576.2	3586.0	3629.7	3731.1	3908.3	4171.1	4511.9	4826.0	5036.7	4973.4
75°	3324.4	3331.5	3334.9	3365.4	3457.8	3612.4	3852.9	4155.3	4432.4	4611.8	4594.1
77.5°	2955.6	2956.8	2983.2	3030.3	3134.0	3310.8	3564.1	3877.8	4138.3	4277.8	4189.2
80°	2122.5	2108.2	2135.3	2196.0	2324.2	2527.0	2786.4	3144.5	3433.7	3564.1	3426.9
82.5°	807.6	851.3	920.2	1020.5	1063.9	1289.4	1531.4	1741.7	1985.3	2257.4	2189.2
85°	86.7	97.6	122.5	151.9	191.9	265.4	366.8	500.6	617.2	725.4	643.9
87.5°	32.4	33.2	37.0	42.6	43.4	45.2	48.2	56.1	52.4	45.2	36.6
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°	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2	1363.2
2.5°	1363.2	1363.6	1363.2	1363.6	1363.6	1362.1	1362.4	1361.7
5°	1362.9	1361.7	1362.1	1362.5	1362.1	1362.9	1361.7	1362.4
7.5°	1361.0	1358.7	1359.4	1359.4	1358.7	1359.9	1359.1	1358.7
10°	1357.2	1354.1	1355.6	1354.9	1354.5	1354.9	1354.9	1354.9
12.5°	1353.8	1351.9	1352.3	1351.9	1351.5	1352.6	1352.3	1352.6
15°	1353.0	1350.0	1349.6	1348.9	1349.3	1350.0	1350.0	1351.1
17.5°	1352.3	1348.5	1348.1	1347.4	1347.8	1349.3	1349.6	1348.9
20°	1354.6	1351.5	1350.8	1350.0	1349.6	1351.5	1351.1	1351.1
22.5°	1365.1	1361.3	1361.0	1358.0	1356.8	1357.9	1357.2	1357.1
25°	1382.1	1377.6	1376.1	1371.9	1368.9	1368.9	1367.8	1367.0
27.5°	1412.6	1405.8	1404.3	1400.9	1396.8	1397.6	1395.3	1394.9
30°	1448.1	1442.0	1436.7	1431.8	1427.0	1425.0	1422.4	1422.0
32.5°	1494.4	1487.6	1481.2	1475.2	1468.4	1465.8	1461.3	1459.0
35°	1551.4	1542.3	1534.8	1530.6	1523.8	1520.4	1517.4	1520.8
37.5°	1630.9	1620.0	1616.2	1611.3	1606.8	1601.5	1602.6	1601.5
40°	1741.0	1731.2	1727.4	1718.8	1717.6	1711.6	1715.3	1711.6
42.5°	1877.0	1859.0	1856.4	1849.6	1847.3	1843.9	1845.4	1842.8
45°	2025.2	2009.0	2006.0	1995.0	1995.4	1987.5	1990.6	1990.6
47.5°	2191.9	2174.9	2161.0	2153.0	2150.0	2145.1	2147.8	2147.4
50°	2363.8	2340.8	2325.3	2309.8	2303.1	2305.0	2299.7	2308.7
52.5°	2548.5	2514.2	2492.3	2477.6	2464.8	2467.4	2468.2	2470.8
55°	2739.6	2695.9	2664.2	2645.0	2633.3	2634.1	2637.5	2640.5
57.5°	2931.9	2877.2	2834.2	2805.6	2798.0	2801.5	2801.5	2801.0
60°	3131.4	3065.8	3010.3	2977.9	2971.1	2969.2	2983.9	2979.0
62.5°	3345.5	3266.7	3209.4	3167.9	3158.1	3164.9	3178.1	3175.1
65°	3629.4	3520.4	3446.5	3405.4	3388.8	3395.6	3413.3	3412.6
67.5°	3995.4	3843.1	3745.5	3692.7	3680.6	3688.9	3698.7	3708.2
70°	4542.8	4325.3	4185.8	4071.6	4022.6	4013.2	4023.0	4023.3
71°	4735.4	4485.5	4263.4	4124.0	4043.7	4009.7	4012.4	3995.4
72.5°	4727.5	4419.5	4159.8	4013.9	3902.3	3875.2	3861.9	3841.6
75°	4409.0	4131.5	3906.1	3747.0	3639.5	3607.5	3584.1	3583.0
77.5°	3998.4	3793.7	3545.3	3376.8	3246.0	3192.8	3169.0	3168.3
80°	3214.2	2907.8	2726.0	2624.7	2466.7	2421.1	2372.8	2354.7
82.5°	1943.8	1518.9	1235.0	1097.5	1021.3	841.1	754.7	714.0
85°	452.8	321.6	221.7	145.6	104.8	83.3	64.1	56.6
87.5°	30.6	24.1	21.5	17.3	13.2	12.8	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)