

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: P147869

Luminaire Tested: **TLM-E04-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147869
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
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-E1-5WQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11631.7 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

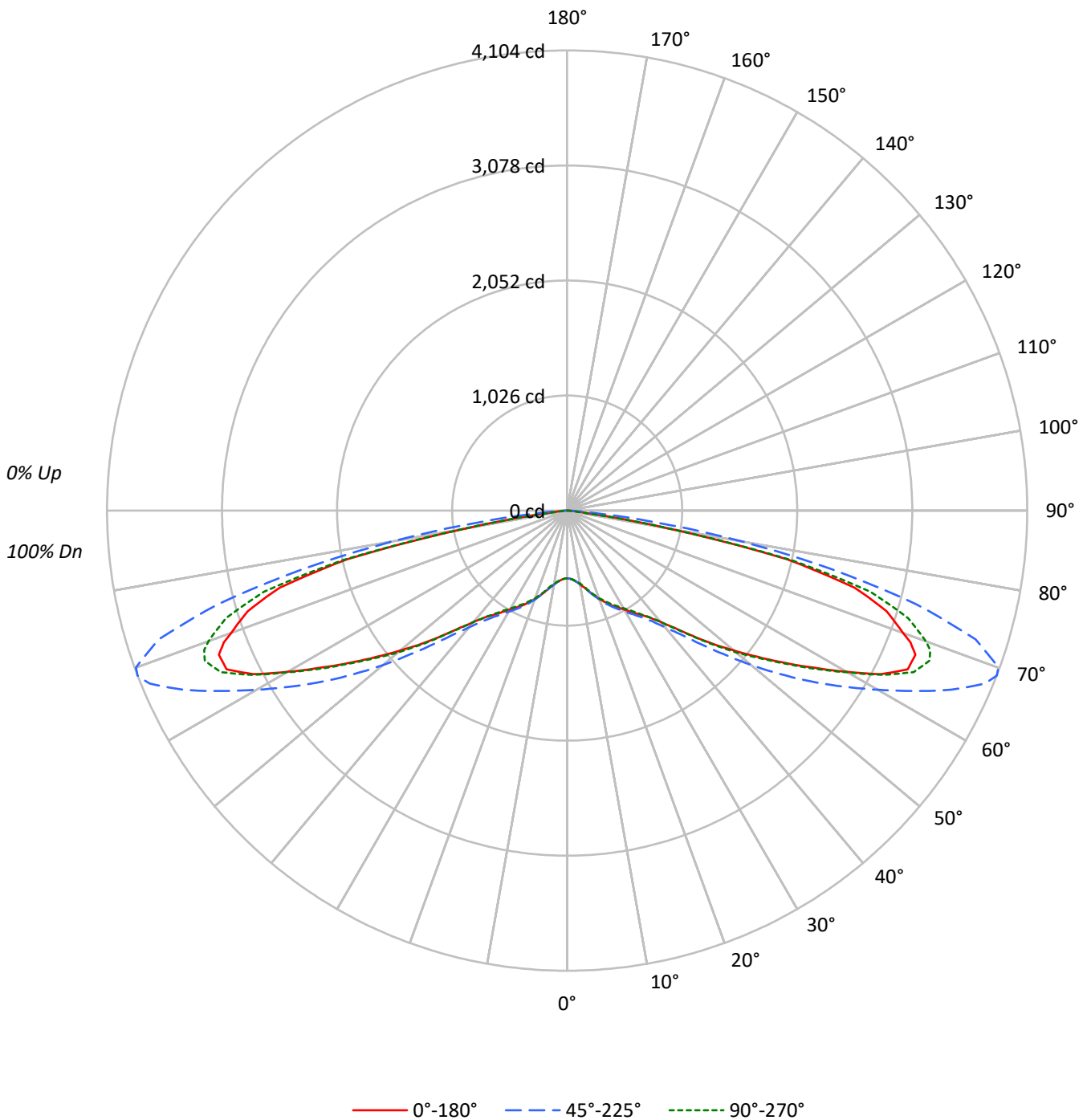
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9704	9704	9704
5°	10016	10016	9976
10°	10907	10888	10788
15°	12376	12436	12255
20°	14324	14450	14199
25°	16493	16751	16255
30°	18887	19315	18660
35°	22213	22809	22021
40°	27148	28400	27148
45°	35859	38183	35998
50°	48487	53509	49155
55°	66276	74463	66651
60°	92345	102675	92698
65°	127356	143744	129576
70°	149645	192258	159824
75°	164641	199867	173784
80°	83266	145679	85736
85°	10783	39502	8313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	0.5
10°-20°	214.2	1.8
20°-30°	433.7	3.7
30°-40°	727.1	6.3
40°-50°	1282.5	11.0
50°-60°	2261.7	19.4
60°-70°	3453.0	29.7
70°-80°	2885.3	24.8
80°-90°	313.5	2.7
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°	708.5	6.1
0°-40°	1435.6	12.3
0°-60°	4979.9	42.8
0°-90°	11631.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11631.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	621	622	621	619	619	61
15°	744	748	748	741	737	214
25°	930	935	945	929	917	432
35°	1133	1140	1163	1138	1123	719
45°	1578	1614	1681	1629	1584	1240
55°	2366	2478	2658	2498	2380	2144
65°	3350	3531	3781	3559	3409	3207
75°	2652	2802	3220	2981	2800	2554
85°	58	97	214	85	45	192
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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	608.9	610.1	608.9	608.9	608.9	608.9	608.9	607.7	607.7	607.7	608.9
5°	621.1	622.3	621.1	622.3	622.3	622.3	622.3	621.1	621.1	621.1	621.1
7.5°	640.6	640.6	640.6	641.8	640.6	640.6	641.8	640.6	640.6	640.6	640.6
10°	668.6	667.4	667.4	667.4	667.4	667.4	668.6	668.6	668.6	667.4	667.4
12.5°	702.7	701.5	702.7	702.7	703.9	703.9	703.9	703.9	703.9	703.9	702.7
15°	744.1	744.1	744.1	745.3	747.7	747.7	746.5	747.7	747.7	747.7	747.7
17.5°	790.4	792.8	790.4	791.6	792.8	791.6	794.0	795.2	796.4	795.2	791.6
20°	837.8	839.1	839.1	839.1	839.1	841.5	842.7	842.7	846.4	845.2	843.9
22.5°	882.9	885.3	885.3	886.6	886.6	890.2	890.2	890.2	892.6	895.1	892.6
25°	930.4	929.2	929.2	931.6	932.8	937.7	937.7	940.1	943.8	945.0	942.6
27.5°	973.0	971.8	971.8	975.5	976.7	982.8	982.8	987.6	990.1	991.3	988.9
30°	1018.1	1018.1	1016.9	1020.5	1024.2	1029.0	1031.5	1036.3	1040.0	1041.2	1038.8
32.5°	1071.7	1069.2	1070.4	1072.9	1075.3	1080.2	1083.8	1089.9	1094.8	1096.0	1093.6
35°	1132.6	1128.9	1130.1	1132.6	1136.2	1143.5	1149.6	1153.3	1160.6	1163.0	1158.1
37.5°	1199.5	1200.8	1199.5	1205.6	1211.7	1220.2	1227.5	1232.4	1239.7	1243.4	1239.7
40°	1294.5	1290.9	1294.5	1300.6	1310.4	1321.3	1335.9	1339.6	1346.9	1354.2	1345.7
42.5°	1417.5	1415.1	1423.6	1428.5	1439.4	1451.6	1469.9	1479.6	1490.6	1495.5	1488.2
45°	1578.3	1578.3	1588.0	1589.2	1606.3	1622.1	1647.7	1659.9	1680.6	1680.6	1680.6
47.5°	1756.1	1763.4	1769.5	1781.6	1793.8	1823.0	1848.6	1875.4	1894.9	1897.3	1893.7
50°	1940.0	1947.3	1965.5	1982.6	2009.4	2045.9	2073.9	2109.2	2126.3	2140.9	2136.0
52.5°	2143.3	2144.5	2166.5	2188.4	2227.4	2267.5	2312.6	2349.1	2379.6	2393.0	2382.0
55°	2366.2	2368.6	2388.1	2411.2	2455.1	2501.4	2557.4	2595.1	2634.1	2658.5	2640.2
57.5°	2607.3	2608.5	2628.0	2656.0	2708.4	2754.7	2808.2	2861.8	2898.4	2920.3	2908.1
60°	2874.0	2880.1	2894.7	2930.0	2980.0	3028.7	3082.3	3129.7	3172.4	3195.5	3183.3
62.5°	3159.0	3165.1	3185.8	3213.8	3257.6	3311.2	3362.3	3423.2	3458.6	3484.1	3465.9
65°	3350.2	3361.1	3394.0	3431.8	3496.3	3565.7	3625.4	3708.2	3750.8	3781.3	3764.2
67.5°	3362.3	3368.4	3408.6	3465.9	3552.3	3657.1	3778.8	3907.9	3991.9	4032.1	4002.9
69°	3279.5	3288.1	3327.0	3391.6	3487.8	3609.6	3754.5	3915.2	4044.3	4104.0	4076.0
70°	3185.8	3204.0	3246.7	3317.3	3411.1	3538.9	3688.7	3860.4	4011.4	4093.0	4072.3
72.5°	2988.5	2993.4	3021.4	3077.4	3149.2	3255.2	3396.4	3558.4	3702.1	3819.0	3836.1
75°	2652.4	2668.2	2688.9	2726.7	2763.2	2839.9	2934.9	3045.7	3129.7	3219.9	3223.5
77.5°	2004.5	2052.0	2067.8	2076.3	2092.2	2153.1	2235.9	2332.1	2401.5	2416.1	2413.7
80°	900.0	963.3	977.9	1047.3	1089.9	1191.0	1317.7	1465.0	1563.7	1574.6	1547.8
82.5°	176.6	188.8	220.4	275.2	375.1	434.8	517.6	621.1	716.1	770.9	738.0
85°	58.5	62.1	71.9	79.2	91.3	103.5	125.4	155.9	193.6	214.3	191.2
87.5°	23.1	23.1	26.8	29.2	31.7	31.7	31.7	29.2	28.0	23.1	20.7
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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	607.7	607.7	607.7	607.7	607.7	607.7	607.7	607.7
5°	621.1	619.9	619.9	618.6	618.6	618.6	618.6	618.6
7.5°	639.3	638.1	636.9	638.1	636.9	636.9	636.9	636.9
10°	667.4	664.9	663.7	662.5	662.5	662.5	661.3	661.3
12.5°	700.2	700.2	699.0	697.8	695.4	696.6	695.4	692.9
15°	745.3	742.9	741.6	740.4	738.0	738.0	738.0	736.8
17.5°	790.4	787.9	787.9	784.3	783.0	783.0	783.0	784.3
20°	840.3	836.6	834.2	831.8	829.3	830.5	828.1	830.5
22.5°	890.2	885.3	882.9	879.3	875.6	875.6	874.4	871.9
25°	938.9	932.8	930.4	926.7	921.9	921.9	919.4	917.0
27.5°	985.2	979.1	976.7	969.4	964.5	963.3	960.8	959.6
30°	1036.3	1029.0	1025.4	1018.1	1010.8	1009.6	1005.9	1005.9
32.5°	1089.9	1082.6	1080.2	1069.2	1063.1	1063.1	1060.7	1058.3
35°	1156.9	1146.0	1143.5	1132.6	1124.0	1124.0	1121.6	1122.8
37.5°	1236.1	1227.5	1219.0	1210.5	1200.8	1199.5	1197.1	1194.7
40°	1342.0	1332.3	1322.5	1310.4	1301.8	1299.4	1295.7	1294.5
42.5°	1483.3	1473.5	1454.1	1444.3	1435.8	1428.5	1427.3	1426.0
45°	1663.5	1651.3	1637.9	1619.7	1608.7	1592.9	1590.4	1584.4
47.5°	1880.3	1857.1	1834.0	1818.2	1801.1	1782.9	1779.2	1769.5
50°	2110.4	2092.2	2053.2	2027.6	2000.8	1982.6	1970.4	1966.7
52.5°	2357.7	2323.6	2284.6	2250.5	2211.5	2187.2	2165.2	2159.2
55°	2615.8	2567.1	2518.4	2478.2	2439.3	2410.0	2389.3	2379.6
57.5°	2874.0	2820.4	2766.8	2723.0	2690.1	2652.4	2631.7	2626.8
60°	3143.1	3092.0	3037.2	2993.4	2953.2	2920.3	2908.1	2885.0
62.5°	3428.1	3374.5	3323.4	3280.8	3229.6	3206.5	3185.8	3172.4
65°	3708.2	3646.1	3581.6	3536.5	3485.3	3452.5	3426.9	3408.6
67.5°	3925.0	3831.2	3744.7	3669.2	3599.8	3548.7	3515.8	3498.7
69°	3985.9	3869.0	3758.1	3659.5	3577.9	3520.7	3484.1	3467.1
70°	3978.6	3849.5	3727.7	3619.3	3530.4	3469.5	3434.2	3402.5
72.5°	3753.3	3635.1	3500.0	3381.8	3301.5	3243.0	3207.7	3190.6
75°	3202.8	3123.7	3026.2	2934.9	2876.4	2842.3	2798.5	2799.7
77.5°	2332.1	2334.5	2268.8	2175.0	2109.2	2097.1	2077.6	2058.1
80°	1446.7	1331.1	1255.6	1154.5	1080.2	1015.6	987.6	926.7
82.5°	667.4	521.2	404.3	305.7	235.0	183.9	160.7	131.5
85°	148.6	113.3	93.8	75.5	64.5	59.7	48.7	45.1
87.5°	20.7	18.3	17.0	15.8	13.4	9.7	7.3	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)