

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: P147883

Luminaire Tested: **TLM-F05-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147883
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-F05-LED-E1-5WQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

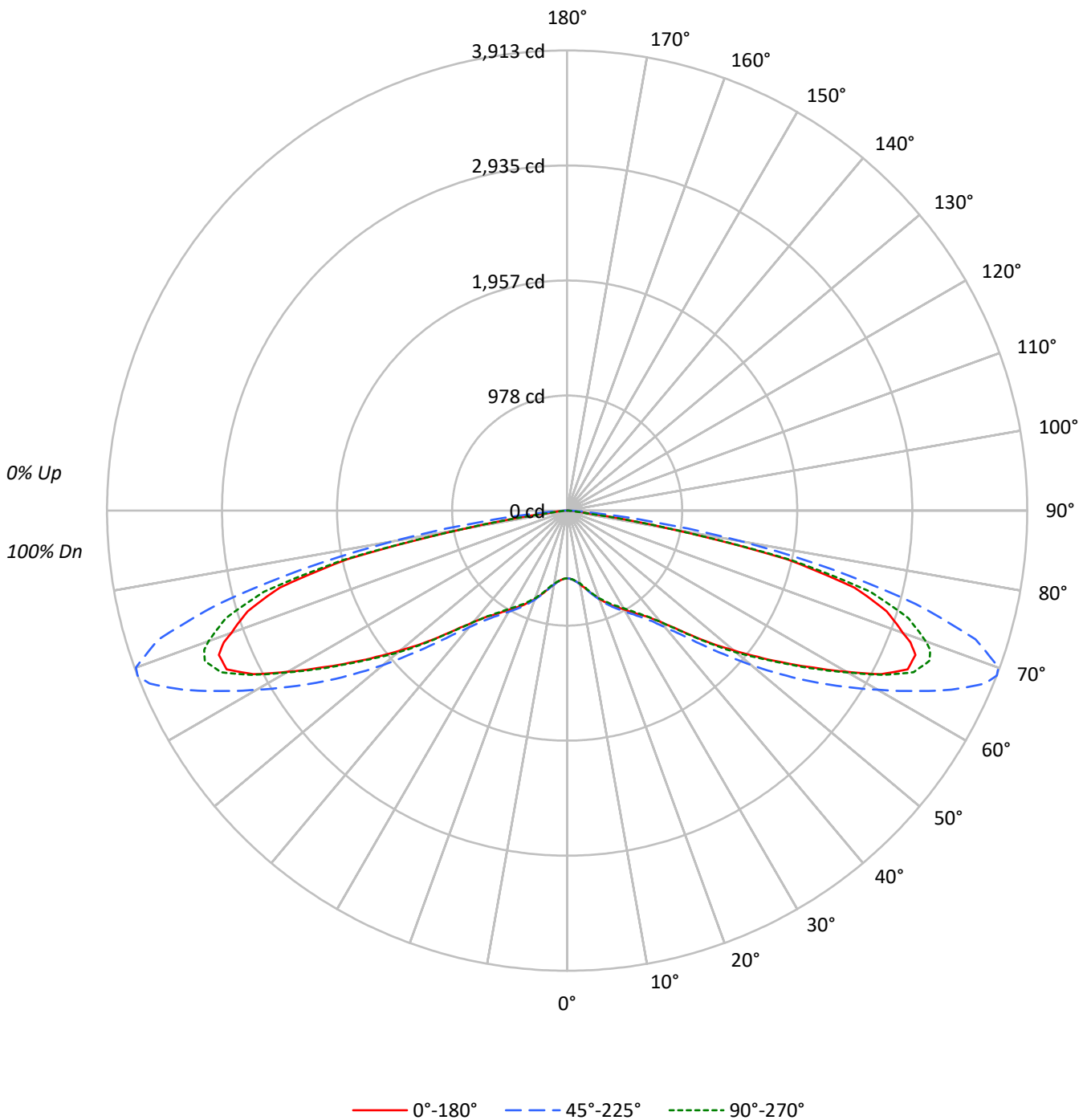
Lumens per Lamp: N/A
Luminaire Lumens: 11091.3 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 133.3
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



TEST NUMBER: P147883
CATALOG NUMBER: TLM-F05-LED-E1-5WQ-8030

Luminous Intensity Polar Plot





TEST NUMBER: P147883

CATALOG NUMBER: TLM-F05-LED-E1-5WQ-8030

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°	7470	7470	7470
5°	7709	7709	7679
10°	8395	8381	8303
15°	9526	9573	9432
20°	11026	11122	10930
25°	12695	12894	12512
30°	14538	14867	14364
35°	17097	17557	16951
40°	20897	21861	20897
45°	27600	29390	27709
50°	37321	41186	37837
55°	51015	57316	51302
60°	71081	79033	71350
65°	98027	110642	99740
70°	115186	147988	123024
75°	126730	153843	133770
80°	64086	112137	65997
85°	8288	30414	6398



TEST NUMBER: P147883

CATALOG NUMBER: TLM-F05-LED-E1-5WQ-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	0.5
10°-20°	204.2	1.8
20°-30°	413.5	3.7
30°-40°	693.3	6.3
40°-50°	1223.0	11.0
50°-60°	2156.6	19.4
60°-70°	3292.6	29.7
70°-80°	2751.3	24.8
80°-90°	299.0	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°	675.6	6.1
0°-40°	1368.9	12.3
0°-60°	4748.5	42.8
0°-90°	11091.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11091.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	592	593	592	590	590	58
15°	710	713	713	707	702	204
25°	887	892	901	885	874	412
35°	1080	1087	1109	1085	1071	686
45°	1505	1539	1602	1553	1511	1182
55°	2256	2363	2535	2382	2269	2044
65°	3194	3367	3606	3394	3250	3058
75°	2529	2671	3070	2842	2670	2435
85°	56	93	204	81	43	183
90°	0	0	0	0	0	



TEST NUMBER: P147883

CATALOG NUMBER: TLM-F05-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	580.6	581.8	580.6	580.6	580.6	580.6	580.6	579.5	579.5	579.5	580.6
5°	592.2	593.4	592.2	593.4	593.4	593.4	593.4	592.2	592.2	592.2	592.2
7.5°	610.8	610.8	610.8	612.0	610.8	610.8	612.0	610.8	610.8	610.8	610.8
10°	637.5	636.4	636.4	636.4	636.4	636.4	637.5	637.5	637.5	636.4	636.4
12.5°	670.0	668.9	670.0	670.0	671.2	671.2	671.2	671.2	671.2	671.2	670.0
15°	709.5	709.5	709.5	710.7	713.0	713.0	711.8	713.0	713.0	713.0	713.0
17.5°	753.6	756.0	753.6	754.8	756.0	754.8	757.1	758.3	759.4	758.3	754.8
20°	798.9	800.1	800.1	800.1	800.1	802.4	803.6	803.6	807.1	805.9	804.7
22.5°	841.9	844.2	844.2	845.4	845.4	848.9	848.9	848.9	851.2	853.5	851.2
25°	887.2	886.0	886.0	888.3	889.5	894.1	894.1	896.5	900.0	901.1	898.8
27.5°	927.8	926.7	926.7	930.1	931.3	937.1	937.1	941.8	944.1	945.2	942.9
30°	970.8	970.8	969.6	973.1	976.6	981.2	983.6	988.2	991.7	992.8	990.5
32.5°	1021.9	1019.6	1020.7	1023.0	1025.4	1030.0	1033.5	1039.3	1043.9	1045.1	1042.8
35°	1079.9	1076.5	1077.6	1079.9	1083.4	1090.4	1096.2	1099.7	1106.6	1109.0	1104.3
37.5°	1143.8	1145.0	1143.8	1149.6	1155.4	1163.5	1170.5	1175.2	1182.1	1185.6	1182.1
40°	1234.4	1230.9	1234.4	1240.2	1249.5	1259.9	1273.9	1277.3	1284.3	1291.3	1283.2
42.5°	1351.7	1349.3	1357.5	1362.1	1372.6	1384.2	1401.6	1410.9	1421.3	1426.0	1419.0
45°	1504.9	1504.9	1514.2	1515.4	1531.7	1546.8	1571.1	1582.8	1602.5	1602.5	1602.5
47.5°	1674.5	1681.5	1687.3	1698.9	1710.5	1738.4	1762.7	1788.3	1806.9	1809.2	1805.7
50°	1849.8	1856.8	1874.2	1890.5	1916.0	1950.9	1977.6	2011.2	2027.5	2041.4	2036.8
52.5°	2043.8	2044.9	2065.8	2086.7	2123.9	2162.2	2205.2	2240.0	2269.0	2281.8	2271.4
55°	2256.3	2258.6	2277.2	2299.2	2341.0	2385.2	2438.6	2474.6	2511.7	2535.0	2517.5
57.5°	2486.2	2487.3	2505.9	2532.6	2582.6	2626.7	2677.8	2728.9	2763.7	2784.6	2773.0
60°	2740.5	2746.3	2760.2	2793.9	2841.5	2888.0	2939.1	2984.4	3025.0	3047.1	3035.4
62.5°	3012.2	3018.0	3037.8	3064.5	3106.3	3157.4	3206.1	3264.2	3297.9	3322.3	3304.8
65°	3194.5	3205.0	3236.3	3272.3	3333.9	3400.1	3457.0	3535.9	3576.6	3605.6	3589.3
67.5°	3206.1	3212.0	3250.3	3304.8	3387.3	3487.2	3603.3	3726.4	3806.5	3844.8	3816.9
69°	3127.2	3135.3	3172.5	3234.0	3325.8	3441.9	3580.1	3733.3	3856.4	3913.3	3886.6
70°	3037.8	3055.2	3095.8	3163.2	3252.6	3374.5	3517.4	3681.1	3825.1	3902.9	3883.1
72.5°	2849.6	2854.3	2881.0	2934.4	3002.9	3104.0	3238.7	3393.1	3530.1	3641.6	3657.9
75°	2529.2	2544.2	2564.0	2600.0	2634.8	2708.0	2798.6	2904.2	2984.4	3070.3	3073.8
77.5°	1911.4	1956.7	1971.8	1979.9	1995.0	2053.0	2132.0	2223.7	2289.9	2303.9	2301.5
80°	858.1	918.5	932.5	998.7	1039.3	1135.7	1256.4	1397.0	1491.0	1501.5	1475.9
82.5°	168.4	180.0	210.2	262.4	357.7	414.6	493.5	592.2	682.8	735.1	703.7
85°	55.7	59.2	68.5	75.5	87.1	98.7	119.6	148.6	184.6	204.4	182.3
87.5°	22.1	22.1	25.5	27.9	30.2	30.2	30.2	27.9	26.7	22.1	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P147883

CATALOG NUMBER: TLM-F05-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	579.5	579.5	579.5	579.5	579.5	579.5	579.5	579.5
5°	592.2	591.1	591.1	589.9	589.9	589.9	589.9	589.9
7.5°	609.6	608.5	607.3	608.5	607.3	607.3	607.3	607.3
10°	636.4	634.0	632.9	631.7	631.7	631.7	630.5	630.5
12.5°	667.7	667.7	666.5	665.4	663.1	664.2	663.1	660.7
15°	710.7	708.3	707.2	706.0	703.7	703.7	703.7	702.5
17.5°	753.6	751.3	751.3	747.8	746.7	746.7	746.7	747.8
20°	801.2	797.8	795.4	793.1	790.8	792.0	789.6	792.0
22.5°	848.9	844.2	841.9	838.4	834.9	834.9	833.8	831.4
25°	895.3	889.5	887.2	883.7	879.0	879.0	876.7	874.4
27.5°	939.4	933.6	931.3	924.3	919.7	918.5	916.2	915.0
30°	988.2	981.2	977.8	970.8	963.8	962.7	959.2	959.2
32.5°	1039.3	1032.3	1030.0	1019.6	1013.8	1013.8	1011.4	1009.1
35°	1103.2	1092.7	1090.4	1079.9	1071.8	1071.8	1069.5	1070.7
37.5°	1178.6	1170.5	1162.4	1154.3	1145.0	1143.8	1141.5	1139.2
40°	1279.7	1270.4	1261.1	1249.5	1241.4	1239.0	1235.5	1234.4
42.5°	1414.4	1405.1	1386.5	1377.2	1369.1	1362.1	1361.0	1359.8
45°	1586.2	1574.6	1561.8	1544.4	1534.0	1518.9	1516.6	1510.8
47.5°	1792.9	1770.9	1748.8	1733.7	1717.5	1700.0	1696.6	1687.3
50°	2012.4	1995.0	1957.8	1933.4	1907.9	1890.5	1878.9	1875.4
52.5°	2248.1	2215.6	2178.5	2145.9	2108.8	2085.6	2064.7	2058.9
55°	2494.3	2447.9	2401.4	2363.1	2325.9	2298.1	2278.3	2269.0
57.5°	2740.5	2689.4	2638.3	2596.5	2565.1	2529.2	2509.4	2504.8
60°	2997.1	2948.4	2896.1	2854.3	2816.0	2784.6	2773.0	2750.9
62.5°	3268.9	3217.8	3169.0	3128.3	3079.6	3057.5	3037.8	3025.0
65°	3535.9	3476.7	3415.2	3372.2	3323.4	3292.1	3267.7	3250.3
67.5°	3742.6	3653.2	3570.8	3498.8	3432.6	3383.8	3352.5	3336.2
69°	3800.7	3689.2	3583.5	3489.5	3411.7	3357.1	3322.3	3306.0
70°	3793.7	3670.6	3554.5	3451.2	3366.4	3308.3	3274.7	3244.5
72.5°	3578.9	3466.3	3337.4	3224.7	3148.1	3092.3	3058.7	3042.4
75°	3054.0	2978.5	2885.6	2798.6	2742.8	2710.3	2668.5	2669.7
77.5°	2223.7	2226.1	2163.4	2073.9	2011.2	1999.6	1981.1	1962.5
80°	1379.5	1269.2	1197.2	1100.8	1030.0	968.5	941.8	883.7
82.5°	636.4	497.0	385.5	291.5	224.1	175.3	153.3	125.4
85°	141.7	108.0	89.4	72.0	61.5	56.9	46.4	43.0
87.5°	19.7	17.4	16.3	15.1	12.8	9.3	7.0	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)