

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: P147893

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147893
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-F06-LED-E1-5WQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

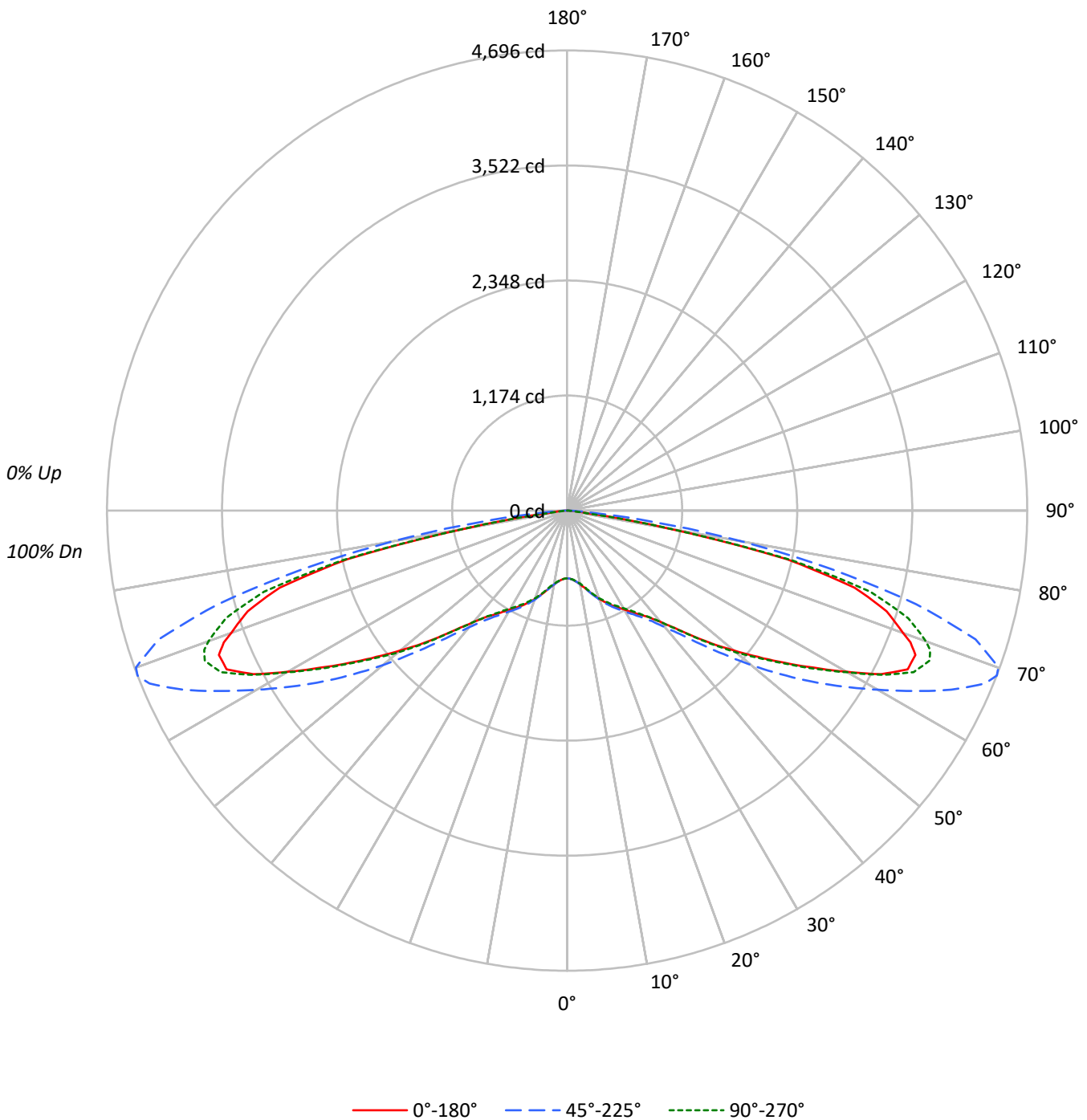
Lumens per Lamp: N/A
Luminaire Lumens: 13309.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	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°	7440	7440	7440
5°	7679	7679	7649
10°	8361	8346	8271
15°	9488	9534	9395
20°	10982	11078	10885
25°	12644	12842	12462
30°	14479	14808	14306
35°	17029	17487	16883
40°	20814	21772	20814
45°	27490	29273	27597
50°	37172	41022	37686
55°	50810	57085	51097
60°	70796	78717	71066
65°	97635	110199	99339
70°	114723	147397	122531
75°	126221	153225	133233
80°	63834	111688	65731
85°	8262	30295	6373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	0.5
10°-20°	245.1	1.8
20°-30°	496.2	3.7
30°-40°	832.0	6.3
40°-50°	1467.5	11.0
50°-60°	2588.0	19.4
60°-70°	3951.1	29.7
70°-80°	3301.6	24.8
80°-90°	358.7	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°	810.7	6.1
0°-40°	1642.7	12.3
0°-60°	5698.2	42.8
0°-90°	13309.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13309.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	711	712	711	709	708	70
15°	851	856	856	848	843	245
25°	1065	1070	1081	1062	1049	495
35°	1296	1304	1331	1302	1285	823
45°	1806	1847	1923	1864	1813	1419
55°	2708	2836	3042	2859	2723	2453
65°	3833	4040	4327	4072	3900	3669
75°	3035	3206	3684	3411	3204	2923
85°	67	111	245	97	52	220
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°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2
2.5°	696.7	698.1	696.7	696.7	696.7	696.7	696.7	695.3	695.3	695.3	696.7
5°	710.7	712.1	710.7	712.1	712.1	712.1	712.1	710.7	710.7	710.7	710.7
7.5°	733.0	733.0	733.0	734.4	733.0	733.0	734.4	733.0	733.0	733.0	733.0
10°	765.0	763.6	763.6	763.6	763.6	763.6	765.0	765.0	765.0	763.6	763.6
12.5°	804.0	802.6	804.0	804.0	805.4	805.4	805.4	805.4	805.4	805.4	804.0
15°	851.4	851.4	851.4	852.8	855.6	855.6	854.2	855.6	855.6	855.6	855.6
17.5°	904.4	907.1	904.4	905.8	907.1	905.8	908.5	909.9	911.3	909.9	905.8
20°	958.7	960.1	960.1	960.1	960.1	962.9	964.3	964.3	968.5	967.1	965.7
22.5°	1010.3	1013.1	1013.1	1014.4	1014.4	1018.6	1018.6	1018.6	1021.4	1024.2	1021.4
25°	1064.6	1063.2	1063.2	1066.0	1067.4	1073.0	1073.0	1075.8	1079.9	1081.3	1078.5
27.5°	1113.4	1112.0	1112.0	1116.2	1117.6	1124.5	1124.5	1130.1	1132.9	1134.3	1131.5
30°	1164.9	1164.9	1163.5	1167.7	1171.9	1177.5	1180.3	1185.8	1190.0	1191.4	1188.6
32.5°	1226.3	1223.5	1224.9	1227.6	1230.4	1236.0	1240.2	1247.2	1252.7	1254.1	1251.3
35°	1295.9	1291.7	1293.1	1295.9	1300.1	1308.5	1315.4	1319.6	1328.0	1330.8	1325.2
37.5°	1372.6	1374.0	1372.6	1379.5	1386.5	1396.3	1404.6	1410.2	1418.6	1422.7	1418.6
40°	1481.3	1477.1	1481.3	1488.2	1499.4	1511.9	1528.6	1532.8	1541.2	1549.5	1539.8
42.5°	1622.0	1619.2	1629.0	1634.5	1647.1	1661.0	1681.9	1693.1	1705.6	1711.2	1702.8
45°	1805.9	1805.9	1817.1	1818.5	1838.0	1856.1	1885.4	1899.3	1923.0	1923.0	1923.0
47.5°	2009.4	2017.7	2024.7	2038.6	2052.6	2086.0	2115.3	2145.9	2168.2	2171.0	2166.8
50°	2219.8	2228.2	2249.1	2268.6	2299.2	2341.0	2373.1	2413.5	2433.0	2449.7	2444.1
52.5°	2452.5	2453.9	2479.0	2504.1	2548.7	2594.6	2646.2	2688.0	2722.8	2738.2	2725.6
55°	2707.5	2710.3	2732.6	2759.1	2809.2	2862.2	2926.3	2969.5	3014.1	3041.9	3021.0
57.5°	2983.4	2984.8	3007.1	3039.2	3099.1	3152.0	3213.3	3274.7	3316.5	3341.5	3327.6
60°	3288.6	3295.6	3312.3	3352.7	3409.8	3465.6	3526.9	3581.2	3630.0	3656.5	3642.5
62.5°	3614.7	3621.6	3645.3	3677.4	3727.5	3788.8	3847.4	3917.0	3957.5	3986.7	3965.8
65°	3833.4	3846.0	3883.6	3926.8	4000.7	4080.1	4148.4	4243.1	4291.9	4326.7	4307.2
67.5°	3847.4	3854.3	3900.3	3965.8	4064.8	4184.6	4323.9	4471.6	4567.8	4613.8	4580.3
69°	3752.6	3762.4	3807.0	3880.8	3990.9	4130.2	4296.1	4480.0	4627.7	4696.0	4663.9
70°	3645.3	3666.2	3715.0	3795.8	3903.1	4049.4	4220.8	4417.3	4590.1	4683.5	4659.8
72.5°	3419.6	3425.2	3457.2	3521.3	3603.5	3724.7	3886.4	4071.7	4236.2	4369.9	4389.4
75°	3035.0	3053.1	3076.8	3120.0	3161.8	3249.6	3358.3	3485.1	3581.2	3684.3	3688.5
77.5°	2293.7	2348.0	2366.1	2375.9	2394.0	2463.7	2558.4	2668.5	2747.9	2764.6	2761.9
80°	1029.8	1102.2	1119.0	1198.4	1247.2	1362.8	1507.7	1676.3	1789.2	1801.8	1771.1
82.5°	202.1	216.0	252.2	314.9	429.2	497.5	592.2	710.7	819.4	882.1	844.4
85°	66.9	71.1	82.2	90.6	104.5	118.4	143.5	178.4	221.6	245.3	218.8
87.5°	26.5	26.5	30.7	33.4	36.2	36.2	36.2	33.4	32.0	26.5	23.7
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°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2
2.5°	695.3	695.3	695.3	695.3	695.3	695.3	695.3	695.3
5°	710.7	709.3	709.3	707.9	707.9	707.9	707.9	707.9
7.5°	731.6	730.2	728.8	730.2	728.8	728.8	728.8	728.8
10°	763.6	760.8	759.4	758.0	758.0	758.0	756.7	756.7
12.5°	801.2	801.2	799.9	798.5	795.7	797.1	795.7	792.9
15°	852.8	850.0	848.6	847.2	844.4	844.4	844.4	843.1
17.5°	904.4	901.6	901.6	897.4	896.0	896.0	896.0	897.4
20°	961.5	957.3	954.5	951.7	949.0	950.3	947.6	950.3
22.5°	1018.6	1013.1	1010.3	1006.1	1001.9	1001.9	1000.5	997.7
25°	1074.4	1067.4	1064.6	1060.4	1054.9	1054.9	1052.1	1049.3
27.5°	1127.3	1120.4	1117.6	1109.2	1103.6	1102.2	1099.4	1098.1
30°	1185.8	1177.5	1173.3	1164.9	1156.6	1155.2	1151.0	1151.0
32.5°	1247.2	1238.8	1236.0	1223.5	1216.5	1216.5	1213.7	1210.9
35°	1323.8	1311.3	1308.5	1295.9	1286.2	1286.2	1283.4	1284.8
37.5°	1414.4	1404.6	1394.9	1385.1	1374.0	1372.6	1369.8	1367.0
40°	1535.6	1524.5	1513.3	1499.4	1489.6	1486.8	1482.7	1481.3
42.5°	1697.2	1686.1	1663.8	1652.7	1642.9	1634.5	1633.1	1631.8
45°	1903.5	1889.5	1874.2	1853.3	1840.8	1822.7	1819.9	1812.9
47.5°	2151.5	2125.0	2098.6	2080.5	2060.9	2040.0	2035.9	2024.7
50°	2414.9	2394.0	2349.4	2320.1	2289.5	2268.6	2254.6	2250.5
52.5°	2697.8	2658.7	2614.2	2575.1	2530.5	2502.7	2477.6	2470.6
55°	2993.2	2937.4	2881.7	2835.7	2791.1	2757.7	2734.0	2722.8
57.5°	3288.6	3227.3	3166.0	3115.8	3078.2	3035.0	3011.3	3005.7
60°	3596.5	3538.0	3475.3	3425.2	3379.2	3341.5	3327.6	3301.1
62.5°	3922.6	3861.3	3802.8	3754.0	3695.5	3669.0	3645.3	3630.0
65°	4243.1	4172.1	4098.2	4046.6	3988.1	3950.5	3921.2	3900.3
67.5°	4491.2	4383.9	4284.9	4198.5	4119.1	4060.6	4023.0	4003.4
69°	4560.8	4427.1	4300.3	4187.4	4094.0	4028.5	3986.7	3967.2
70°	4552.5	4404.8	4265.4	4141.4	4039.7	3970.0	3929.6	3893.4
72.5°	4294.7	4159.5	4004.8	3869.7	3777.7	3710.8	3670.4	3650.9
75°	3664.8	3574.3	3462.8	3358.3	3291.4	3252.4	3202.2	3203.6
77.5°	2668.5	2671.3	2596.0	2488.7	2413.5	2399.6	2377.3	2355.0
80°	1655.4	1523.1	1436.7	1321.0	1236.0	1162.2	1130.1	1060.4
82.5°	763.6	596.4	462.6	349.8	268.9	210.4	183.9	150.5
85°	170.0	129.6	107.3	86.4	73.9	68.3	55.7	51.6
87.5°	23.7	20.9	19.5	18.1	15.3	11.1	8.4	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)