

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: P148368

Luminaire Tested: **TLM-E02-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148368
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-E02-LED-E1-5XQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

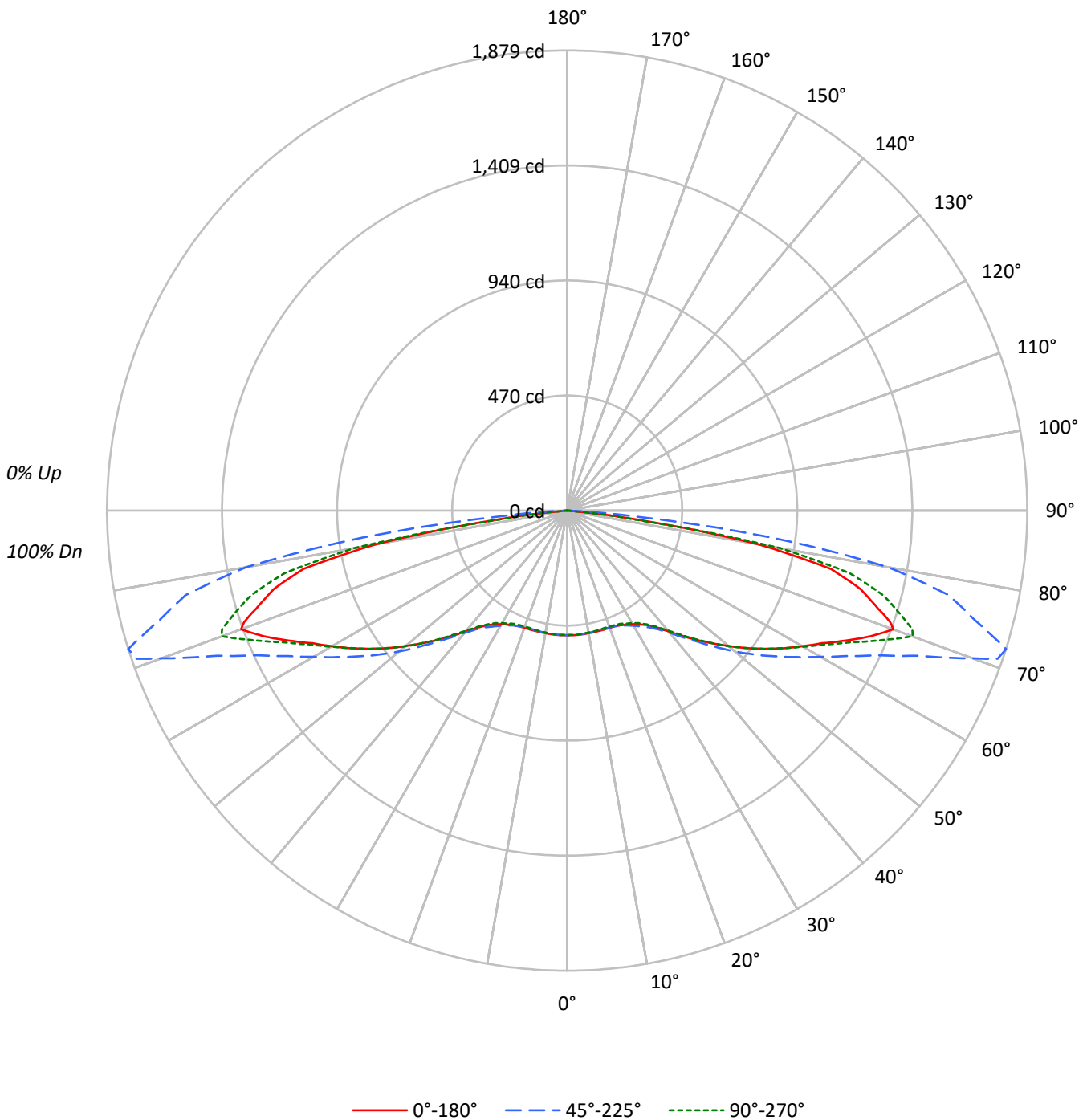
Lumens per Lamp: N/A
Luminaire Lumens: 5368.4 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 52.1
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°	16589	16589	16589
5°	16682	16653	16646
10°	16839	16773	16746
15°	17175	17073	17026
20°	17696	17623	17501
25°	18578	18632	18355
30°	20173	20436	19984
35°	22741	23179	22593
40°	27421	27736	27191
45°	34389	34993	34260
50°	43610	45396	43711
55°	55912	58955	56032
60°	72236	77918	72516
65°	96862	107829	98274
70°	135118	168344	143167
75°	156323	216866	168472
80°	148750	249788	165035
85°	12088	101272	7897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	0.9
10°-20°	143.4	2.7
20°-30°	240.1	4.5
30°-40°	366.1	6.8
40°-50°	584.5	10.9
50°-60°	898.8	16.7
60°-70°	1308.6	24.4
70°-80°	1474.1	27.5
80°-90°	304.3	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°	432.0	8.0
0°-40°	798.1	14.9
0°-60°	2281.4	42.5
0°-90°	5368.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5368.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	509	509	508	508	49
15°	509	507	506	503	504	144
25°	516	517	518	513	510	241
35°	571	575	582	572	567	365
45°	746	745	759	746	743	582
55°	983	986	1037	990	985	885
65°	1255	1260	1397	1278	1273	1251
75°	1240	1319	1721	1428	1337	1263
85°	32	85	271	68	21	201
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°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	509.5	509.8	509.6	509.4	509.5	509.3	509.1	508.9	507.9	508.5	509.3
5°	509.5	509.2	509.0	508.9	508.9	509.4	508.9	508.5	508.4	508.6	508.2
7.5°	509.2	508.6	508.4	508.2	508.4	508.5	508.1	507.5	507.9	507.5	507.0
10°	508.4	508.0	508.1	507.5	507.7	507.5	507.0	506.6	506.8	506.4	505.7
12.5°	508.6	507.9	507.8	507.5	507.4	507.2	506.6	505.8	506.0	505.7	505.0
15°	508.6	508.2	508.1	507.5	507.4	507.1	506.2	506.0	506.0	505.6	504.7
17.5°	508.9	508.6	508.6	507.9	507.6	507.5	506.5	506.1	506.5	505.7	505.2
20°	509.8	509.5	509.6	509.2	508.6	508.6	507.9	507.7	507.8	507.7	506.1
22.5°	511.5	511.5	511.7	511.6	511.4	511.6	511.0	511.0	511.2	511.2	509.9
25°	516.2	516.1	516.4	516.4	516.5	517.5	517.1	516.9	517.6	517.7	516.4
27.5°	525.2	525.0	525.2	525.5	526.2	527.5	527.2	527.6	528.8	528.5	527.3
30°	535.6	535.4	536.1	536.9	537.5	539.4	538.6	540.7	541.7	542.6	541.7
32.5°	550.8	550.8	552.1	552.7	554.0	555.9	556.2	557.9	559.2	560.6	559.6
35°	571.1	570.8	571.8	572.8	574.4	576.2	576.9	579.1	581.1	582.1	580.2
37.5°	602.0	600.5	602.3	602.9	604.2	604.6	606.6	609.4	611.4	611.2	609.9
40°	644.0	643.7	643.0	642.2	644.1	644.8	644.8	648.6	652.0	651.4	651.3
42.5°	693.0	691.6	690.8	690.8	692.0	692.2	696.6	699.4	701.8	702.3	701.8
45°	745.5	744.2	744.5	744.0	744.4	746.2	748.8	754.0	758.5	758.6	756.2
47.5°	802.1	798.2	801.2	796.9	799.6	800.9	807.3	814.9	822.8	824.1	822.0
50°	859.4	859.0	858.8	857.9	859.2	862.3	870.0	882.0	889.6	894.6	891.2
52.5°	922.2	920.1	919.1	917.7	919.0	925.0	935.8	946.2	959.9	965.7	961.0
55°	983.2	982.6	978.9	978.8	981.4	990.8	1002.6	1015.5	1030.2	1036.7	1035.0
57.5°	1046.0	1041.9	1040.8	1039.1	1044.4	1053.3	1067.8	1090.8	1106.2	1113.5	1109.3
60°	1107.3	1104.2	1101.8	1101.3	1104.9	1117.3	1138.2	1165.8	1184.8	1194.4	1187.6
62.5°	1173.2	1171.2	1168.4	1165.1	1172.8	1188.8	1214.6	1245.3	1273.3	1285.1	1274.8
65°	1255.0	1250.9	1247.8	1243.8	1250.1	1270.0	1302.6	1345.8	1383.3	1397.1	1389.8
67.5°	1341.4	1337.6	1337.9	1335.4	1346.6	1374.3	1416.2	1474.9	1525.2	1548.7	1535.0
70°	1416.8	1418.9	1419.4	1429.7	1449.1	1491.3	1561.1	1653.0	1729.3	1765.2	1750.4
71°	1394.6	1399.2	1406.4	1417.1	1450.6	1500.5	1595.7	1707.0	1798.1	1858.9	1838.5
72.5°	1331.6	1334.4	1338.0	1354.3	1392.2	1458.3	1556.3	1683.4	1800.6	1879.3	1855.6
75°	1240.4	1243.0	1244.3	1255.7	1290.2	1347.8	1437.6	1550.4	1653.8	1720.8	1714.1
77.5°	1102.8	1103.2	1113.1	1130.7	1169.4	1235.3	1329.8	1446.9	1544.0	1596.1	1563.1
80°	791.9	786.6	796.7	819.4	867.2	942.9	1039.6	1173.3	1281.2	1329.8	1278.6
82.5°	301.3	317.6	343.4	380.8	397.0	481.0	571.4	649.9	740.7	842.3	816.8
85°	32.3	36.4	45.7	56.7	71.6	99.0	136.9	186.8	230.2	270.6	240.3
87.5°	12.1	12.4	13.8	15.9	16.2	16.9	18.0	21.0	19.5	16.9	13.6
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°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6
2.5°	508.6	508.8	508.6	508.8	508.8	508.2	508.4	508.1
5°	508.5	508.1	508.2	508.4	508.2	508.5	508.1	508.4
7.5°	507.8	507.0	507.2	507.2	507.0	507.4	507.1	507.0
10°	506.4	505.2	505.8	505.6	505.4	505.6	505.6	505.6
12.5°	505.1	504.4	504.6	504.4	504.3	504.7	504.6	504.7
15°	504.8	503.7	503.6	503.3	503.4	503.7	503.7	504.2
17.5°	504.6	503.2	503.0	502.8	502.9	503.4	503.6	503.3
20°	505.4	504.3	504.0	503.7	503.6	504.2	504.2	504.2
22.5°	509.4	508.0	507.8	506.7	506.2	506.7	506.4	506.4
25°	515.7	514.0	513.4	511.9	510.7	510.8	510.4	510.0
27.5°	527.1	524.5	524.0	522.7	521.2	521.4	520.6	520.4
30°	540.3	538.0	536.1	534.2	532.4	531.7	530.7	530.6
32.5°	557.6	555.1	552.7	550.4	547.9	546.9	545.2	544.4
35°	578.8	575.5	572.6	571.1	568.6	567.3	566.2	567.4
37.5°	608.5	604.4	603.0	601.2	599.5	597.6	598.0	597.6
40°	649.6	646.0	644.5	641.3	640.9	638.6	640.0	638.6
42.5°	700.4	693.7	692.6	690.1	689.2	688.0	688.6	687.6
45°	755.6	749.6	748.5	744.4	744.5	741.6	742.7	742.7
47.5°	817.8	811.5	806.3	803.3	802.2	800.4	801.4	801.2
50°	882.0	873.4	867.6	861.8	859.3	860.0	858.0	861.4
52.5°	950.9	938.1	929.9	924.4	919.6	920.6	920.9	922.0
55°	1022.2	1005.9	994.1	986.9	982.5	982.8	984.1	985.3
57.5°	1094.0	1073.5	1057.5	1046.8	1044.0	1045.3	1045.3	1045.2
60°	1168.4	1143.9	1123.2	1111.1	1108.6	1107.8	1113.4	1111.6
62.5°	1248.2	1218.8	1197.5	1182.0	1178.4	1180.9	1185.8	1184.6
65°	1354.2	1313.5	1285.9	1270.6	1264.4	1267.0	1273.6	1273.3
67.5°	1490.8	1434.0	1397.5	1377.8	1373.3	1376.4	1380.0	1383.6
70°	1695.0	1613.8	1561.8	1519.2	1500.9	1497.4	1501.1	1501.2
71°	1766.9	1673.6	1590.8	1538.8	1508.8	1496.1	1497.1	1490.8
72.5°	1763.9	1649.0	1552.1	1497.7	1456.0	1445.9	1441.0	1433.4
75°	1645.1	1541.5	1457.4	1398.1	1358.0	1346.0	1337.3	1336.8
77.5°	1491.9	1415.5	1322.8	1259.9	1211.1	1191.3	1182.4	1182.2
80°	1199.3	1085.0	1017.2	979.3	920.4	903.4	885.3	878.6
82.5°	725.3	566.8	460.8	409.4	381.1	313.8	281.6	266.4
85°	169.0	120.0	82.7	54.3	39.1	31.1	23.9	21.1
87.5°	11.4	9.0	8.0	6.4	5.0	4.8	3.0	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)