

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: P148374

Luminaire Tested: **TLM-F02-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148374
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-F02-LED-E1-5XQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

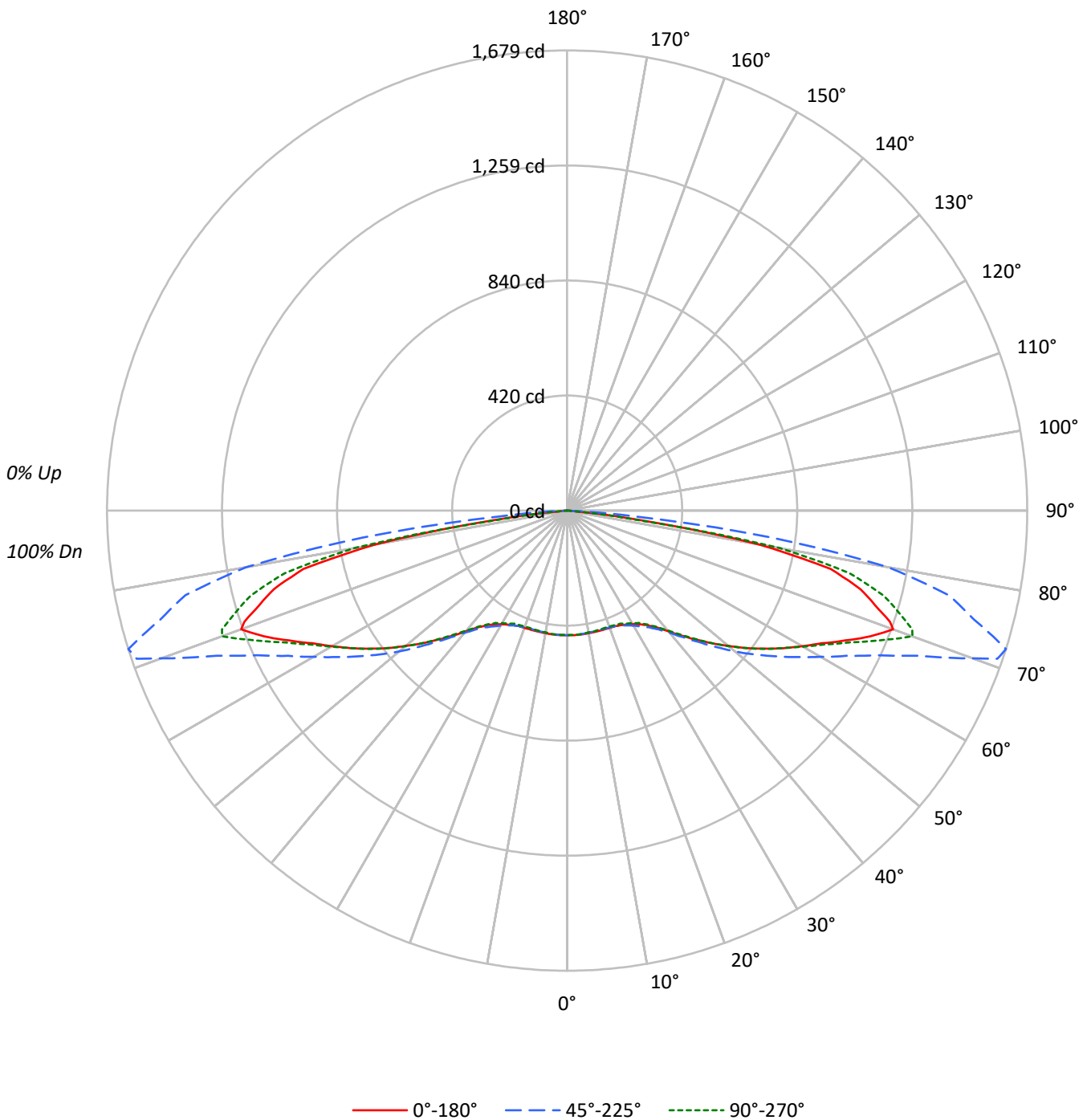
Lumens per Lamp: N/A
Luminaire Lumens: 4796.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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°	14822	14822	14822
5°	14904	14878	14872
10°	15044	14984	14957
15°	15344	15250	15209
20°	15808	15742	15634
25°	16599	16642	16397
30°	18026	18256	17853
35°	20316	20706	20188
40°	24496	24781	24292
45°	30722	31261	30606
50°	38962	40555	39053
55°	49953	52671	50055
60°	64531	69607	64779
65°	86535	96329	87793
70°	120717	150396	127899
75°	139649	193727	150525
80°	132896	223172	147435
85°	10816	90493	7036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	0.9
10°-20°	128.1	2.7
20°-30°	214.5	4.5
30°-40°	327.0	6.8
40°-50°	522.2	10.9
50°-60°	802.9	16.7
60°-70°	1169.1	24.4
70°-80°	1317.0	27.5
80°-90°	271.9	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°	385.9	8.0
0°-40°	713.0	14.9
0°-60°	2038.1	42.5
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	455	455	454	454	454	43
15°	454	453	452	450	450	129
25°	461	462	462	458	456	215
35°	510	514	520	511	507	326
45°	666	666	678	667	664	520
55°	878	881	926	885	880	790
65°	1121	1126	1248	1142	1138	1117
75°	1108	1178	1537	1276	1194	1129
85°	29	76	242	61	19	180
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°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	455.2	455.4	455.3	455.0	455.2	455.0	454.8	454.6	453.8	454.3	455.0
5°	455.2	454.9	454.8	454.6	454.6	455.0	454.6	454.3	454.2	454.4	454.0
7.5°	454.9	454.4	454.2	454.0	454.2	454.3	453.9	453.4	453.8	453.4	452.9
10°	454.2	453.8	453.9	453.4	453.5	453.4	452.9	452.5	452.8	452.4	451.8
12.5°	454.4	453.8	453.6	453.4	453.3	453.2	452.5	451.9	452.0	451.8	451.2
15°	454.4	454.0	453.9	453.4	453.3	453.0	452.3	452.0	452.0	451.6	450.9
17.5°	454.6	454.4	454.4	453.8	453.5	453.4	452.5	452.2	452.5	451.8	451.3
20°	455.4	455.2	455.3	454.9	454.4	454.4	453.8	453.5	453.6	453.5	452.2
22.5°	456.9	456.9	457.2	457.0	456.9	457.0	456.5	456.5	456.6	456.6	455.5
25°	461.2	461.1	461.3	461.3	461.4	462.3	462.0	461.8	462.4	462.4	461.3
27.5°	469.2	469.0	469.2	469.5	470.1	471.2	471.0	471.4	472.4	472.1	471.1
30°	478.6	478.3	478.9	479.7	480.2	481.9	481.2	483.0	483.9	484.7	483.9
32.5°	492.1	492.1	493.3	493.8	494.9	496.6	496.9	498.4	499.5	500.8	499.9
35°	510.2	510.0	510.8	511.7	513.1	514.8	515.4	517.4	519.1	520.0	518.4
37.5°	537.8	536.5	538.1	538.6	539.7	540.1	541.8	544.4	546.2	546.0	544.9
40°	575.3	575.0	574.4	573.7	575.4	576.0	576.0	579.4	582.4	582.0	581.8
42.5°	619.0	617.9	617.1	617.1	618.1	618.4	622.3	624.8	627.0	627.5	627.0
45°	666.0	664.9	665.2	664.6	665.0	666.7	668.9	673.6	677.6	677.7	675.6
47.5°	716.5	713.0	715.8	711.9	714.3	715.5	721.2	728.0	735.0	736.3	734.4
50°	767.8	767.4	767.2	766.4	767.6	770.3	777.2	787.9	794.7	799.2	796.2
52.5°	823.9	822.0	821.1	819.8	821.0	826.4	836.0	845.4	857.6	862.7	858.6
55°	878.4	877.8	874.5	874.4	876.8	885.2	895.7	907.2	920.4	926.2	924.6
57.5°	934.4	930.8	929.8	928.3	933.0	941.0	953.9	974.5	988.2	994.8	991.0
60°	989.2	986.5	984.3	983.8	987.1	998.2	1016.8	1041.5	1058.5	1067.0	1061.0
62.5°	1048.1	1046.3	1043.8	1040.9	1047.8	1062.0	1085.1	1112.5	1137.5	1148.1	1138.9
65°	1121.2	1117.6	1114.8	1111.1	1116.8	1134.6	1163.7	1202.2	1235.8	1248.1	1241.6
67.5°	1198.4	1195.0	1195.2	1193.0	1203.0	1227.7	1265.2	1317.6	1362.6	1383.6	1371.2
70°	1265.8	1267.6	1268.1	1277.3	1294.6	1332.3	1394.6	1476.7	1544.9	1577.0	1563.8
71°	1245.8	1250.0	1256.4	1266.0	1295.9	1340.5	1425.6	1525.0	1606.4	1660.7	1642.4
72.5°	1189.6	1192.1	1195.4	1209.9	1243.7	1302.8	1390.4	1504.0	1608.6	1678.9	1657.8
75°	1108.1	1110.5	1111.6	1121.8	1152.6	1204.2	1284.3	1385.1	1477.4	1537.2	1531.4
77.5°	985.2	985.6	994.4	1010.1	1044.7	1103.6	1188.1	1292.6	1379.4	1425.9	1396.4
80°	707.5	702.7	711.8	732.0	774.7	842.3	928.8	1048.2	1144.6	1188.1	1142.3
82.5°	269.2	283.8	306.8	340.2	354.6	429.8	510.4	580.6	661.8	752.5	729.7
85°	28.9	32.6	40.8	50.6	64.0	88.4	122.3	166.9	205.7	241.8	214.6
87.5°	10.8	11.0	12.3	14.2	14.4	15.1	16.1	18.7	17.5	15.1	12.2
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°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	454.4	454.5	454.4	454.5	454.5	454.0	454.2	453.9
5°	454.3	453.9	454.0	454.2	454.0	454.3	453.9	454.2
7.5°	453.6	452.9	453.2	453.2	452.9	453.3	453.0	452.9
10°	452.4	451.4	451.9	451.6	451.5	451.6	451.6	451.6
12.5°	451.3	450.6	450.8	450.6	450.5	450.9	450.8	450.9
15°	451.0	450.0	449.9	449.6	449.8	450.0	450.0	450.4
17.5°	450.8	449.5	449.4	449.2	449.3	449.8	449.9	449.6
20°	451.5	450.5	450.3	450.0	449.9	450.5	450.4	450.4
22.5°	455.0	453.8	453.6	452.6	452.3	452.6	452.4	452.4
25°	460.7	459.2	458.7	457.3	456.3	456.3	455.9	455.6
27.5°	470.8	468.6	468.1	467.0	465.6	465.8	465.1	465.0
30°	482.7	480.6	478.9	477.3	475.6	475.0	474.2	474.0
32.5°	498.1	495.8	493.7	491.7	489.5	488.6	487.1	486.3
35°	517.1	514.1	511.6	510.2	507.9	506.8	505.8	507.0
37.5°	543.6	540.0	538.7	537.1	535.6	533.8	534.2	533.8
40°	580.3	577.1	575.8	572.9	572.5	570.5	571.8	570.5
42.5°	625.7	619.7	618.8	616.5	615.8	614.6	615.1	614.2
45°	675.1	669.7	668.7	665.0	665.1	662.5	663.5	663.5
47.5°	730.6	725.0	720.3	717.7	716.7	715.0	715.9	715.8
50°	787.9	780.3	775.1	770.0	767.7	768.3	766.6	769.6
52.5°	849.5	838.0	830.8	825.9	821.6	822.5	822.7	823.6
55°	913.2	898.6	888.1	881.7	877.8	878.0	879.2	880.2
57.5°	977.3	959.1	944.8	935.2	932.7	933.8	933.8	933.6
60°	1043.8	1021.9	1003.4	992.6	990.4	989.8	994.6	993.0
62.5°	1115.2	1088.9	1069.8	1056.0	1052.7	1055.0	1059.4	1058.4
65°	1209.8	1173.4	1148.8	1135.2	1129.6	1131.9	1137.8	1137.5
67.5°	1331.8	1281.0	1248.5	1230.9	1226.9	1229.6	1232.9	1236.0
70°	1514.3	1441.8	1395.3	1357.2	1340.8	1337.7	1341.0	1341.1
71°	1578.5	1495.2	1421.2	1374.6	1347.9	1336.6	1337.5	1331.8
72.5°	1575.8	1473.2	1386.6	1338.0	1300.8	1291.7	1287.3	1280.5
75°	1469.7	1377.1	1302.0	1249.0	1213.2	1202.5	1194.7	1194.4
77.5°	1332.8	1264.6	1181.8	1125.6	1082.0	1064.2	1056.4	1056.1
80°	1071.4	969.2	908.7	874.9	822.2	807.0	791.0	784.9
82.5°	648.0	506.3	411.7	365.8	340.4	280.4	251.6	238.0
85°	150.9	107.2	73.9	48.5	34.9	27.8	21.4	18.8
87.5°	10.2	8.0	7.2	5.8	4.4	4.2	2.6	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)