

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: P148363

Luminaire Tested: **TLM-F01-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148363
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-F01-LED-E1-5XQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

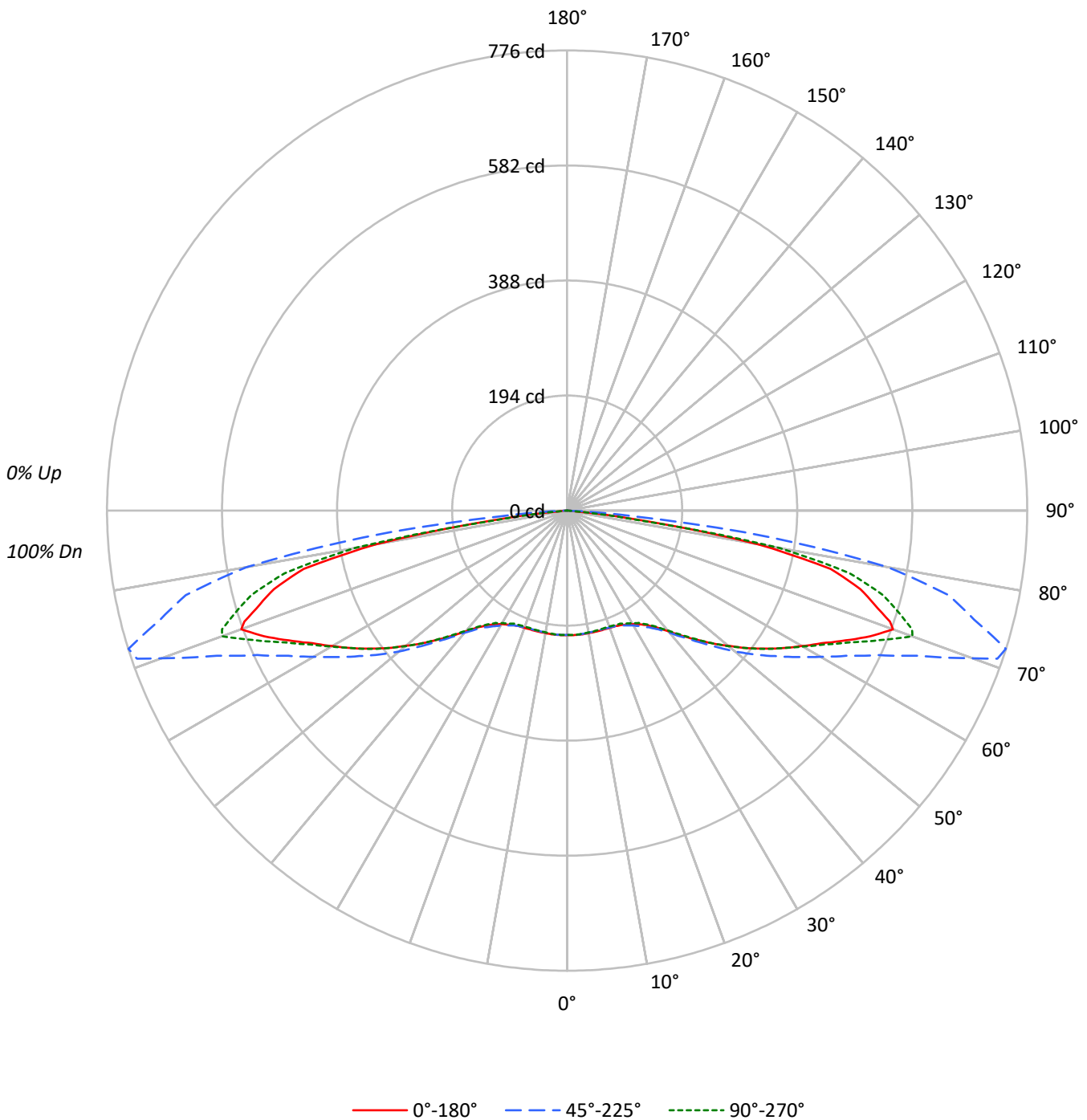
Lumens per Lamp: N/A
Luminaire Lumens: 2215.9 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 25.9
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°	13290	13290	13290
5°	13366	13347	13335
10°	13489	13437	13412
15°	13766	13680	13641
20°	14177	14123	14022
25°	14881	14923	14713
30°	16165	16370	16012
35°	18226	18566	18103
40°	21970	22226	21788
45°	27562	28036	27445
50°	34949	36368	35028
55°	44796	47236	44896
60°	57872	62431	58100
65°	77607	86402	78746
70°	108262	134883	114705
75°	125255	173767	134992
80°	119197	200145	132214
85°	9735	81148	6320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	0.9
10°-20°	59.2	2.7
20°-30°	99.1	4.5
30°-40°	151.1	6.8
40°-50°	241.3	10.9
50°-60°	371.0	16.7
60°-70°	540.1	24.4
70°-80°	608.5	27.5
80°-90°	125.6	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°	178.3	8.0
0°-40°	329.4	14.9
0°-60°	941.7	42.5
0°-90°	2215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	210	210	210	210	210	
5°	210	210	210	210	210	20
15°	210	209	209	208	208	60
25°	213	213	214	212	211	99
35°	236	237	240	236	234	151
45°	308	308	313	308	306	240
55°	406	407	428	409	407	365
65°	518	520	577	528	526	516
75°	512	544	710	589	552	521
85°	13	35	112	28	9	83
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°	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9
2.5°	210.3	210.4	210.4	210.3	210.3	210.2	210.1	210.0	209.7	209.9	210.2
5°	210.3	210.2	210.1	210.1	210.0	210.2	210.0	209.9	209.8	210.0	209.8
7.5°	210.2	210.0	209.8	209.8	209.8	209.9	209.7	209.5	209.6	209.5	209.2
10°	209.8	209.6	209.7	209.5	209.6	209.4	209.3	209.1	209.2	209.0	208.7
12.5°	210.0	209.7	209.6	209.5	209.4	209.4	209.1	208.8	208.8	208.7	208.4
15°	210.0	209.8	209.7	209.5	209.4	209.3	209.0	208.8	208.8	208.7	208.3
17.5°	210.0	210.0	209.9	209.7	209.6	209.5	209.0	208.9	209.1	208.7	208.5
20°	210.4	210.3	210.4	210.2	209.9	210.0	209.6	209.5	209.6	209.6	208.9
22.5°	211.2	211.1	211.2	211.2	211.1	211.2	210.9	211.0	211.0	211.0	210.4
25°	213.0	213.0	213.2	213.2	213.2	213.6	213.4	213.4	213.7	213.6	213.2
27.5°	216.8	216.7	216.8	216.9	217.2	217.7	217.6	217.8	218.2	218.2	217.7
30°	221.1	221.0	221.3	221.6	221.8	222.6	222.3	223.2	223.6	223.9	223.6
32.5°	227.4	227.4	227.9	228.1	228.6	229.4	229.6	230.3	230.8	231.4	231.0
35°	235.8	235.6	236.0	236.4	237.1	237.8	238.1	239.0	239.9	240.2	239.5
37.5°	248.5	247.9	248.6	248.8	249.4	249.6	250.4	251.5	252.4	252.3	251.8
40°	265.8	265.7	265.4	265.0	265.9	266.2	266.2	267.7	269.1	268.9	268.8
42.5°	286.0	285.5	285.1	285.1	285.6	285.7	287.5	288.7	289.6	289.9	289.7
45°	307.8	307.2	307.3	307.1	307.2	308.0	309.0	311.2	313.1	313.1	312.1
47.5°	331.1	329.4	330.7	328.9	330.0	330.6	333.2	336.4	339.6	340.2	339.3
50°	354.8	354.6	354.5	354.1	354.6	355.9	359.1	364.0	367.2	369.2	367.9
52.5°	380.7	379.8	379.4	378.8	379.3	381.8	386.3	390.6	396.2	398.6	396.7
55°	405.8	405.5	404.0	404.0	405.1	409.0	413.9	419.2	425.2	427.9	427.2
57.5°	431.8	430.1	429.6	428.9	431.1	434.8	440.8	450.2	456.6	459.6	457.9
60°	457.0	455.8	454.8	454.6	456.1	461.2	469.8	481.2	489.0	493.0	490.2
62.5°	484.2	483.4	482.2	480.9	484.1	490.7	501.4	514.0	525.6	530.4	526.2
65°	518.0	516.4	515.1	513.4	516.0	524.2	537.6	555.4	571.0	576.7	573.7
67.5°	553.7	552.1	552.2	551.2	555.8	567.3	584.6	608.8	629.6	639.3	633.5
70°	584.8	585.7	585.9	590.2	598.2	615.6	644.4	682.3	713.8	728.6	722.5
71°	575.6	577.5	580.5	584.9	598.8	619.3	658.7	704.6	742.2	767.3	758.8
72.5°	549.6	550.8	552.3	559.0	574.6	601.9	642.4	694.9	743.2	775.7	765.9
75°	512.0	513.1	513.6	518.3	532.6	556.3	593.3	640.0	682.6	710.3	707.5
77.5°	455.2	455.4	459.4	466.7	482.7	509.9	548.9	597.2	637.3	658.8	645.2
80°	326.9	324.7	328.9	338.2	358.0	389.2	429.2	484.3	528.8	548.9	527.8
82.5°	124.4	131.1	141.7	157.2	163.8	198.6	235.8	268.2	305.8	347.7	337.2
85°	13.4	15.1	18.9	23.4	29.6	40.9	56.5	77.1	95.0	111.7	99.2
87.5°	5.0	5.1	5.7	6.6	6.7	7.0	7.4	8.7	8.1	7.0	5.6
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°	209.9	209.9	209.9	209.9	209.9	209.9	209.9	209.9
2.5°	209.9	210.0	209.9	210.0	210.0	209.8	209.8	209.8
5°	209.9	209.7	209.8	209.8	209.8	209.9	209.7	209.8
7.5°	209.6	209.2	209.4	209.4	209.3	209.4	209.3	209.2
10°	209.0	208.6	208.8	208.7	208.6	208.7	208.7	208.6
12.5°	208.5	208.2	208.2	208.2	208.2	208.3	208.2	208.4
15°	208.4	207.9	207.9	207.8	207.8	207.9	207.9	208.1
17.5°	208.3	207.7	207.6	207.5	207.6	207.8	207.9	207.8
20°	208.6	208.2	208.0	207.9	207.8	208.1	208.1	208.1
22.5°	210.2	209.7	209.6	209.1	209.0	209.1	209.0	209.0
25°	212.8	212.2	211.9	211.3	210.8	210.8	210.6	210.6
27.5°	217.6	216.5	216.3	215.8	215.1	215.2	214.9	214.8
30°	223.0	222.1	221.3	220.5	219.8	219.5	219.1	219.0
32.5°	230.2	229.1	228.2	227.2	226.2	225.8	225.0	224.7
35°	238.9	237.6	236.4	235.7	234.7	234.2	233.7	234.2
37.5°	251.2	249.5	248.9	248.2	247.5	246.7	246.8	246.6
40°	268.1	266.6	266.0	264.7	264.5	263.6	264.2	263.6
42.5°	289.1	286.3	285.9	284.9	284.5	284.0	284.2	283.8
45°	311.9	309.4	308.9	307.3	307.4	306.1	306.6	306.5
47.5°	337.6	335.0	332.8	331.6	331.2	330.4	330.8	330.8
50°	364.0	360.5	358.2	355.7	354.7	355.0	354.2	355.6
52.5°	392.5	387.2	383.8	381.6	379.6	380.0	380.1	380.6
55°	421.9	415.2	410.3	407.4	405.6	405.6	406.2	406.7
57.5°	451.5	443.2	436.5	432.1	431.0	431.4	431.4	431.4
60°	482.2	472.2	463.6	458.6	457.6	457.3	459.6	458.8
62.5°	515.3	503.1	494.3	487.9	486.4	487.4	489.4	489.0
65°	559.0	542.2	530.8	524.5	521.9	523.0	525.7	525.6
67.5°	615.3	591.9	576.8	568.7	566.9	568.2	569.6	571.1
70°	699.6	666.2	644.6	627.0	619.5	618.0	619.6	619.6
71°	729.3	690.8	656.6	635.1	622.8	617.6	618.0	615.4
72.5°	728.1	680.7	640.6	618.2	601.0	596.8	594.8	591.6
75°	679.0	636.3	601.6	577.1	560.5	555.6	552.0	551.8
77.5°	615.8	584.3	546.0	520.1	499.9	491.7	488.1	488.0
80°	495.0	447.8	419.8	404.2	379.9	372.9	365.4	362.6
82.5°	299.4	234.0	190.2	169.0	157.3	129.6	116.3	110.0
85°	69.7	49.5	34.2	22.4	16.1	12.8	9.9	8.7
87.5°	4.7	3.7	3.3	2.7	2.0	2.0	1.2	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)