

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: P148364

Luminaire Tested: **TLM-F01-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148364
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

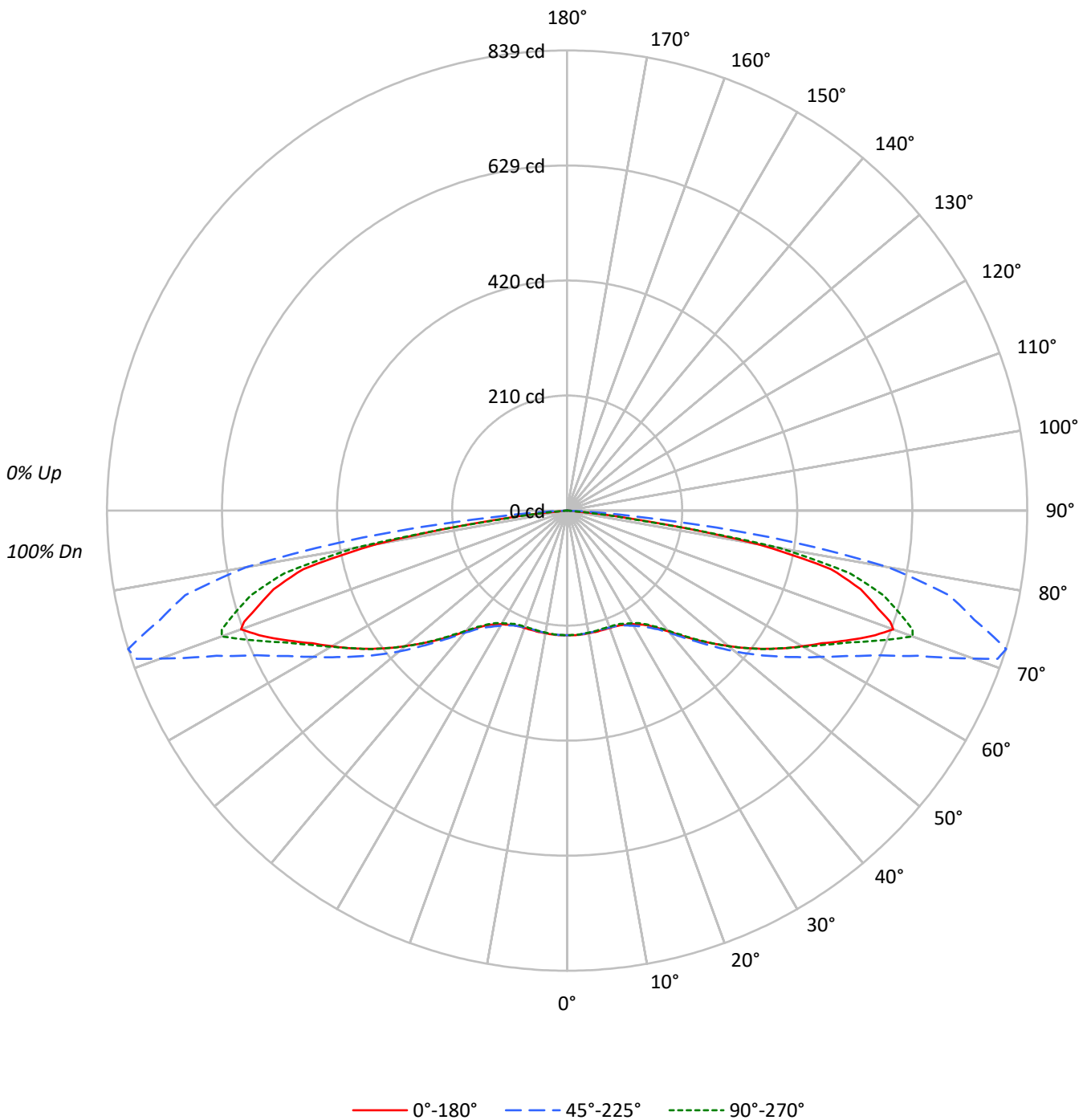
Lumens per Lamp: N/A
Luminaire Lumens: 2398.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

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°	14386	14386	14386
5°	14466	14441	14434
10°	14601	14543	14518
15°	14893	14801	14762
20°	15343	15282	15174
25°	16110	16152	15915
30°	17488	17722	17328
35°	19718	20097	19595
40°	23771	24053	23573
45°	29818	30346	29711
50°	37826	39362	37904
55°	48483	51122	48583
60°	62633	67559	62874
65°	83990	93503	85218
70°	117148	145973	124146
75°	135530	188029	146098
80°	129006	216590	143117
85°	10461	87832	6829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.9
10°-20°	64.1	2.7
20°-30°	107.3	4.5
30°-40°	163.5	6.8
40°-50°	261.1	10.9
50°-60°	401.5	16.7
60°-70°	584.5	24.4
70°-80°	658.5	27.5
80°-90°	135.9	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°	193.0	8.0
0°-40°	356.5	14.9
0°-60°	1019.0	42.5
0°-90°	2398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	227	227	227	227	227	
5°	228	227	227	227	227	22
15°	227	227	226	225	225	64
25°	231	231	231	229	228	107
35°	255	257	260	255	254	163
45°	333	333	339	333	332	260
55°	439	440	463	442	440	395
65°	561	563	624	571	569	559
75°	554	589	769	638	597	564
85°	14	38	121	31	9	90
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°	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2
2.5°	227.6	227.7	227.6	227.5	227.6	227.5	227.4	227.3	226.9	227.2	227.5
5°	227.6	227.4	227.4	227.3	227.3	227.5	227.4	227.2	227.0	227.2	227.0
7.5°	227.4	227.2	227.1	227.0	227.0	227.2	227.0	226.7	226.9	226.7	226.4
10°	227.1	226.9	227.0	226.7	226.8	226.7	226.4	226.3	226.4	226.2	225.9
12.5°	227.2	226.9	226.8	226.7	226.6	226.6	226.2	226.0	226.0	225.9	225.6
15°	227.2	227.0	227.0	226.7	226.6	226.5	226.2	226.0	226.0	225.8	225.4
17.5°	227.3	227.2	227.2	226.9	226.8	226.7	226.2	226.0	226.2	225.9	225.6
20°	227.7	227.6	227.6	227.4	227.2	227.2	226.9	226.8	226.8	226.8	226.1
22.5°	228.4	228.4	228.6	228.5	228.4	228.5	228.3	228.2	228.3	228.4	227.8
25°	230.6	230.5	230.6	230.7	230.7	231.2	231.0	230.9	231.2	231.2	230.7
27.5°	234.6	234.5	234.6	234.8	235.0	235.6	235.5	235.7	236.2	236.0	235.6
30°	239.2	239.1	239.4	239.8	240.1	241.0	240.6	241.5	242.0	242.4	242.0
32.5°	246.0	246.0	246.6	246.8	247.4	248.3	248.4	249.2	249.8	250.4	250.0
35°	255.1	255.0	255.4	255.9	256.6	257.4	257.6	258.6	259.5	260.0	259.2
37.5°	269.0	268.2	269.1	269.3	269.9	270.0	270.9	272.2	273.2	273.0	272.4
40°	287.6	287.5	287.2	286.8	287.7	288.0	288.0	289.7	291.2	291.0	290.9
42.5°	309.5	308.9	308.6	308.6	309.1	309.2	311.1	312.4	313.5	313.7	313.5
45°	333.0	332.4	332.6	332.3	332.5	333.3	334.5	336.8	338.8	338.9	337.8
47.5°	358.3	356.5	357.9	356.0	357.2	357.8	360.6	364.0	367.5	368.1	367.2
50°	384.0	383.7	383.6	383.2	383.8	385.2	388.6	394.0	397.4	399.6	398.1
52.5°	412.0	411.0	410.5	409.9	410.5	413.2	418.0	422.7	428.8	431.3	429.2
55°	439.2	438.9	437.2	437.2	438.4	442.6	447.9	453.6	460.2	463.1	462.3
57.5°	467.2	465.4	464.9	464.2	466.5	470.5	477.0	487.2	494.1	497.4	495.5
60°	494.6	493.2	492.2	491.9	493.6	499.1	508.4	520.8	529.2	533.5	530.5
62.5°	524.0	523.1	521.9	520.4	523.9	531.0	542.6	556.2	568.8	574.0	569.4
65°	560.6	558.8	557.4	555.6	558.4	567.3	581.8	601.2	617.9	624.1	620.8
67.5°	599.2	597.5	597.6	596.5	601.5	613.9	632.6	658.8	681.3	691.8	685.6
70°	632.8	633.8	634.0	638.6	647.3	666.2	697.3	738.3	772.5	788.5	781.8
71°	623.0	625.0	628.2	632.9	647.9	670.2	712.8	762.5	803.2	830.3	821.2
72.5°	594.8	596.0	597.6	604.9	621.8	651.4	695.2	752.0	804.4	839.4	828.9
75°	554.0	555.3	555.8	560.9	576.3	602.0	642.2	692.6	738.7	768.6	765.7
77.5°	492.6	492.8	497.2	505.1	522.3	551.8	594.0	646.3	689.7	713.0	698.2
80°	353.8	351.4	355.9	366.0	387.4	421.2	464.4	524.1	572.3	594.0	571.2
82.5°	134.6	141.9	153.4	170.1	177.3	214.9	255.2	290.3	330.9	376.2	364.9
85°	14.4	16.2	20.4	25.3	32.0	44.2	61.2	83.4	102.8	120.9	107.3
87.5°	5.4	5.6	6.2	7.1	7.2	7.5	8.1	9.4	8.7	7.5	6.1
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°	227.2	227.2	227.2	227.2	227.2	227.2	227.2	227.2
2.5°	227.2	227.3	227.2	227.3	227.3	227.0	227.1	227.0
5°	227.2	227.0	227.0	227.1	227.0	227.1	227.0	227.1
7.5°	226.8	226.4	226.6	226.6	226.4	226.6	226.5	226.4
10°	226.2	225.7	226.0	225.8	225.8	225.8	225.8	225.8
12.5°	225.6	225.3	225.4	225.3	225.2	225.4	225.4	225.4
15°	225.5	225.0	224.9	224.8	224.9	225.0	225.0	225.2
17.5°	225.4	224.8	224.7	224.6	224.6	224.8	224.9	224.8
20°	225.7	225.2	225.1	225.0	224.9	225.2	225.2	225.2
22.5°	227.5	226.9	226.8	226.3	226.2	226.3	226.2	226.2
25°	230.4	229.6	229.4	228.6	228.1	228.2	228.0	227.8
27.5°	235.4	234.3	234.0	233.5	232.8	232.9	232.6	232.4
30°	241.3	240.3	239.5	238.6	237.8	237.5	237.0	237.0
32.5°	249.1	248.0	246.9	245.8	244.8	244.3	243.6	243.2
35°	258.6	257.0	255.8	255.1	254.0	253.4	252.9	253.5
37.5°	271.8	270.0	269.4	268.6	267.8	266.9	267.1	267.0
40°	290.2	288.5	287.9	286.4	286.3	285.2	285.9	285.2
42.5°	312.8	309.8	309.4	308.2	307.9	307.3	307.5	307.2
45°	337.5	334.8	334.3	332.5	332.5	331.2	331.8	331.8
47.5°	365.3	362.5	360.2	358.8	358.3	357.5	358.0	357.8
50°	394.0	390.2	387.6	385.0	383.8	384.2	383.3	384.8
52.5°	424.8	419.0	415.4	412.9	410.8	411.2	411.4	411.8
55°	456.6	449.4	444.0	440.8	438.9	439.0	439.6	440.1
57.5°	488.6	479.6	472.4	467.6	466.4	466.9	466.9	466.8
60°	521.9	511.0	501.7	496.3	495.2	494.9	497.3	496.5
62.5°	557.6	544.4	534.9	528.0	526.3	527.4	529.7	529.2
65°	604.9	586.8	574.4	567.6	564.8	565.9	568.9	568.8
67.5°	665.9	640.5	624.2	615.4	613.4	614.8	616.4	618.1
70°	757.1	720.9	697.6	678.6	670.4	668.8	670.5	670.6
71°	789.3	747.6	710.6	687.3	674.0	668.3	668.7	665.9
72.5°	788.0	736.6	693.3	669.0	650.4	645.8	643.7	640.3
75°	734.8	688.6	651.0	624.5	606.6	601.2	597.4	597.2
77.5°	666.4	632.3	590.9	562.8	541.0	532.1	528.2	528.0
80°	535.7	484.6	454.4	437.4	411.2	403.5	395.5	392.5
82.5°	324.0	253.2	205.8	182.9	170.2	140.2	125.8	119.0
85°	75.5	53.6	36.9	24.2	17.5	13.9	10.7	9.4
87.5°	5.1	4.0	3.6	2.9	2.2	2.2	1.3	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)