

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: P148365

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148365  
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  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

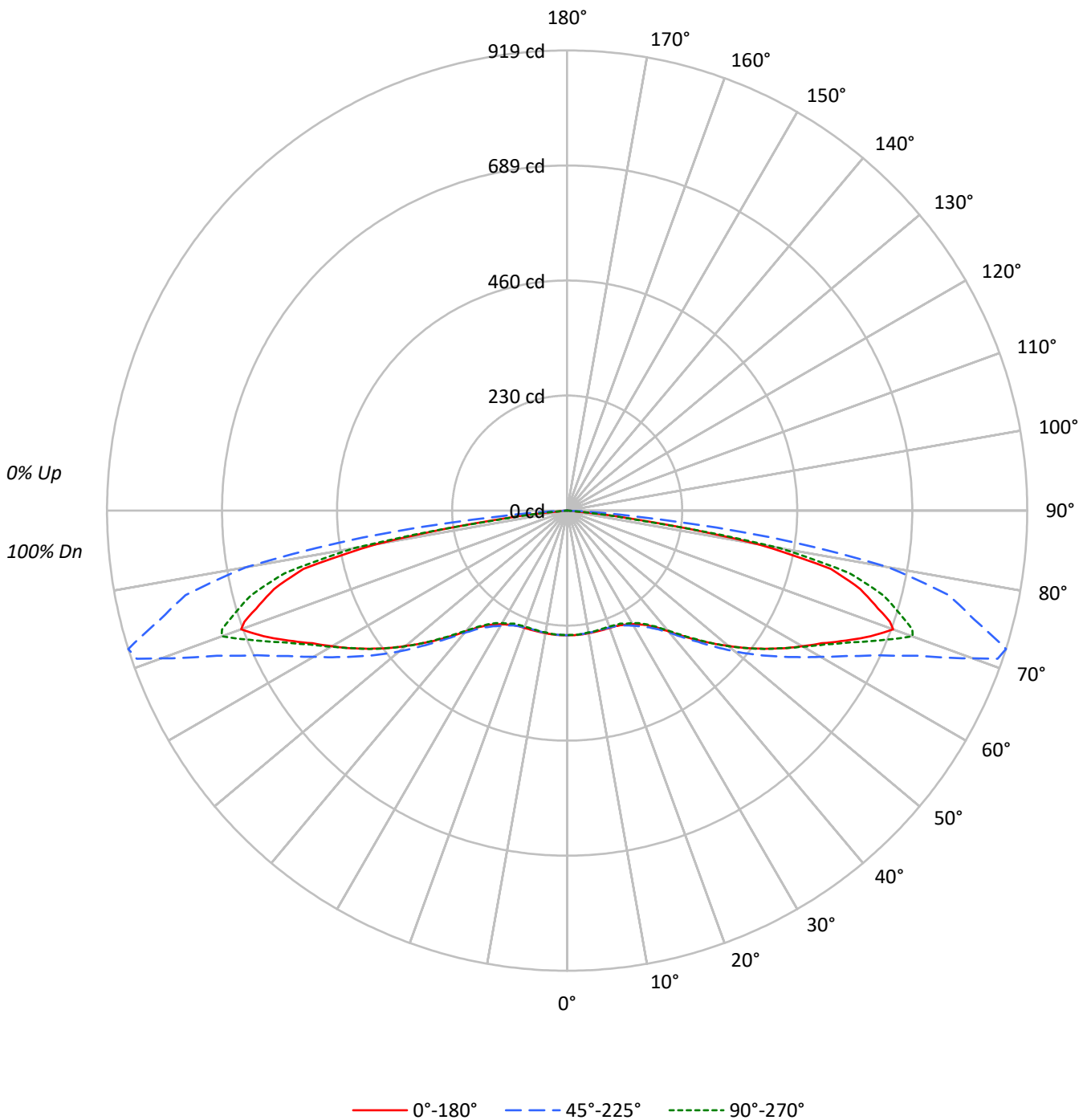
Lumens per Lamp: N/A  
Luminaire Lumens: 2625.5 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15753	15753	15753
5°	15839	15813	15801
10°	15983	15926	15893
15°	16309	16204	16165
20°	16798	16724	16616
25°	17640	17689	17424
30°	19155	19404	18973
35°	21589	21998	21450
40°	26036	26334	25813
45°	32648	33221	32522
50°	41401	43105	41500
55°	53087	55968	53186
60°	68585	73967	68838
65°	91960	102358	93309
70°	128274	159820	135920
75°	148398	205888	159945
80°	141221	237155	156681
85°	11478	96186	7555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.7	0.9
10°-20°	70.1	2.7
20°-30°	117.4	4.5
30°-40°	179.0	6.8
40°-50°	285.9	10.9
50°-60°	439.5	16.7
60°-70°	640.0	24.4
70°-80°	720.9	27.5
80°-90°	148.8	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°	211.3	8.0
0°-40°	390.3	14.9
0°-60°	1115.7	42.5
0°-90°	2625.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	249	249	249	249	249	24
15°	249	248	247	246	247	71
25°	252	253	253	251	249	118
35°	279	281	285	280	278	178
45°	365	364	371	365	363	284
55°	481	482	507	484	482	433
65°	614	616	683	625	623	612
75°	607	645	842	698	654	618
85°	16	42	132	33	10	98
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°	248.8	248.8	248.8	248.8	248.8	248.8	248.8	248.8	248.8	248.8	248.8
2.5°	249.2	249.3	249.2	249.1	249.2	249.1	249.0	248.9	248.4	248.7	249.1
5°	249.2	249.0	249.0	248.9	248.9	249.1	248.9	248.7	248.6	248.8	248.6
7.5°	249.0	248.8	248.6	248.6	248.6	248.7	248.5	248.2	248.4	248.2	247.9
10°	248.6	248.4	248.5	248.2	248.3	248.2	247.9	247.7	247.9	247.7	247.3
12.5°	248.8	248.4	248.4	248.2	248.2	248.1	247.7	247.4	247.4	247.3	247.0
15°	248.8	248.6	248.5	248.2	248.2	248.0	247.6	247.4	247.4	247.2	246.8
17.5°	248.9	248.8	248.7	248.4	248.3	248.2	247.7	247.5	247.7	247.3	247.0
20°	249.3	249.2	249.2	249.0	248.8	248.8	248.4	248.3	248.4	248.2	247.5
22.5°	250.1	250.1	250.3	250.2	250.2	250.2	249.9	249.9	250.0	250.0	249.4
25°	252.5	252.4	252.6	252.5	252.6	253.1	252.9	252.8	253.2	253.2	252.5
27.5°	256.8	256.8	256.9	257.0	257.4	258.0	257.8	258.0	258.6	258.4	257.9
30°	262.0	261.8	262.2	262.6	262.8	263.8	263.4	264.4	264.9	265.4	264.9
32.5°	269.4	269.4	270.0	270.3	270.9	271.9	272.0	272.8	273.4	274.1	273.6
35°	279.3	279.2	279.6	280.1	280.9	281.8	282.1	283.2	284.2	284.6	283.8
37.5°	294.4	293.7	294.6	294.8	295.4	295.7	296.6	298.0	299.0	298.9	298.3
40°	315.0	314.8	314.5	314.0	315.0	315.4	315.4	317.2	318.9	318.6	318.5
42.5°	338.8	338.3	337.8	337.8	338.4	338.5	340.6	342.0	343.2	343.5	343.2
45°	364.6	364.0	364.1	363.8	364.0	365.0	366.2	368.7	371.0	371.0	369.8
47.5°	392.2	390.4	391.8	389.7	391.0	391.7	394.8	398.5	402.4	403.1	402.0
50°	420.3	420.1	420.0	419.6	420.2	421.7	425.5	431.3	435.0	437.6	435.9
52.5°	451.0	450.0	449.5	448.8	449.4	452.4	457.7	462.8	469.4	472.3	470.0
55°	480.9	480.5	478.8	478.7	480.0	484.6	490.4	496.6	503.8	507.0	506.2
57.5°	511.6	509.6	509.0	508.2	510.8	515.2	522.2	533.5	541.0	544.6	542.5
60°	541.6	540.0	538.9	538.6	540.4	546.4	556.6	570.1	579.4	584.1	580.8
62.5°	573.8	572.8	571.4	569.8	573.6	581.4	594.0	609.0	622.7	628.5	623.5
65°	613.8	611.8	610.2	608.3	611.4	621.2	637.0	658.2	676.5	683.2	679.7
67.5°	656.0	654.2	654.3	653.0	658.6	672.1	692.6	721.3	745.9	757.4	750.7
70°	692.9	693.9	694.2	699.2	708.7	729.4	763.5	808.4	845.7	863.3	856.1
71°	682.0	684.3	687.8	693.0	709.4	733.8	780.4	834.8	879.4	909.1	899.1
72.5°	651.2	652.6	654.4	662.4	680.8	713.2	761.2	823.3	880.6	919.1	907.5
75°	606.6	607.9	608.6	614.1	631.0	659.2	703.1	758.2	808.8	841.6	838.3
77.5°	539.4	539.6	544.4	553.0	571.9	604.2	650.4	707.6	755.2	780.6	764.4
80°	387.3	384.7	389.6	400.7	424.1	461.1	508.4	573.8	626.6	650.4	625.4
82.5°	147.4	155.3	167.9	186.2	194.1	235.3	279.4	317.8	362.2	412.0	399.5
85°	15.8	17.8	22.4	27.7	35.0	48.4	66.9	91.4	112.6	132.4	117.5
87.5°	5.9	6.0	6.8	7.8	7.9	8.3	8.8	10.2	9.6	8.3	6.7
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°	248.8	248.8	248.8	248.8	248.8	248.8	248.8	248.8
2.5°	248.8	248.8	248.8	248.8	248.8	248.6	248.6	248.4
5°	248.7	248.4	248.6	248.6	248.6	248.7	248.5	248.6
7.5°	248.4	247.9	248.1	248.1	247.9	248.2	248.0	247.9
10°	247.7	247.1	247.4	247.2	247.2	247.2	247.2	247.2
12.5°	247.0	246.7	246.8	246.7	246.6	246.8	246.8	246.8
15°	246.9	246.4	246.3	246.2	246.2	246.4	246.3	246.6
17.5°	246.8	246.1	246.0	245.9	246.0	246.2	246.3	246.2
20°	247.2	246.6	246.5	246.4	246.3	246.6	246.6	246.6
22.5°	249.1	248.4	248.4	247.8	247.6	247.8	247.7	247.6
25°	252.2	251.4	251.1	250.4	249.8	249.8	249.6	249.4
27.5°	257.8	256.6	256.3	255.6	254.9	255.0	254.6	254.6
30°	264.2	263.1	262.2	261.3	260.4	260.0	259.6	259.5
32.5°	272.7	271.4	270.3	269.2	267.9	267.5	266.7	266.2
35°	283.1	281.4	280.1	279.3	278.0	277.4	276.9	277.5
37.5°	297.6	295.6	294.9	294.0	293.2	292.2	292.4	292.2
40°	317.7	315.9	315.2	313.6	313.4	312.3	313.0	312.3
42.5°	342.6	339.2	338.8	337.5	337.1	336.4	336.8	336.2
45°	369.6	366.6	366.0	364.0	364.1	362.7	363.2	363.2
47.5°	400.0	396.9	394.3	392.9	392.4	391.4	391.9	391.8
50°	431.3	427.1	424.3	421.5	420.2	420.6	419.6	421.3
52.5°	465.0	458.8	454.8	452.1	449.8	450.2	450.4	450.9
55°	499.9	492.0	486.2	482.6	480.5	480.6	481.3	481.8
57.5°	535.0	525.0	517.2	512.0	510.6	511.2	511.2	511.2
60°	571.4	559.4	549.3	543.4	542.2	541.8	544.5	543.6
62.5°	610.5	596.1	585.7	578.1	576.3	577.5	579.9	579.4
65°	662.3	642.4	628.9	621.4	618.4	619.6	622.9	622.8
67.5°	729.1	701.3	683.5	673.8	671.7	673.1	674.9	676.6
70°	829.0	789.2	763.8	743.0	734.0	732.3	734.1	734.2
71°	864.1	818.5	778.0	752.5	737.9	731.7	732.2	729.1
72.5°	862.7	806.5	759.1	732.4	712.1	707.1	704.7	701.0
75°	804.6	753.9	712.8	683.8	664.1	658.3	654.0	653.8
77.5°	729.6	692.3	646.9	616.2	592.3	582.6	578.3	578.1
80°	586.6	530.6	497.4	479.0	450.1	441.8	433.0	429.7
82.5°	354.7	277.2	225.4	200.3	186.4	153.5	137.7	130.3
85°	82.6	58.7	40.4	26.5	19.1	15.2	11.7	10.4
87.5°	5.6	4.4	3.9	3.2	2.4	2.3	1.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)