

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: P147844

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147844  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
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-E1-5WQ-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (7) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2400.6 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

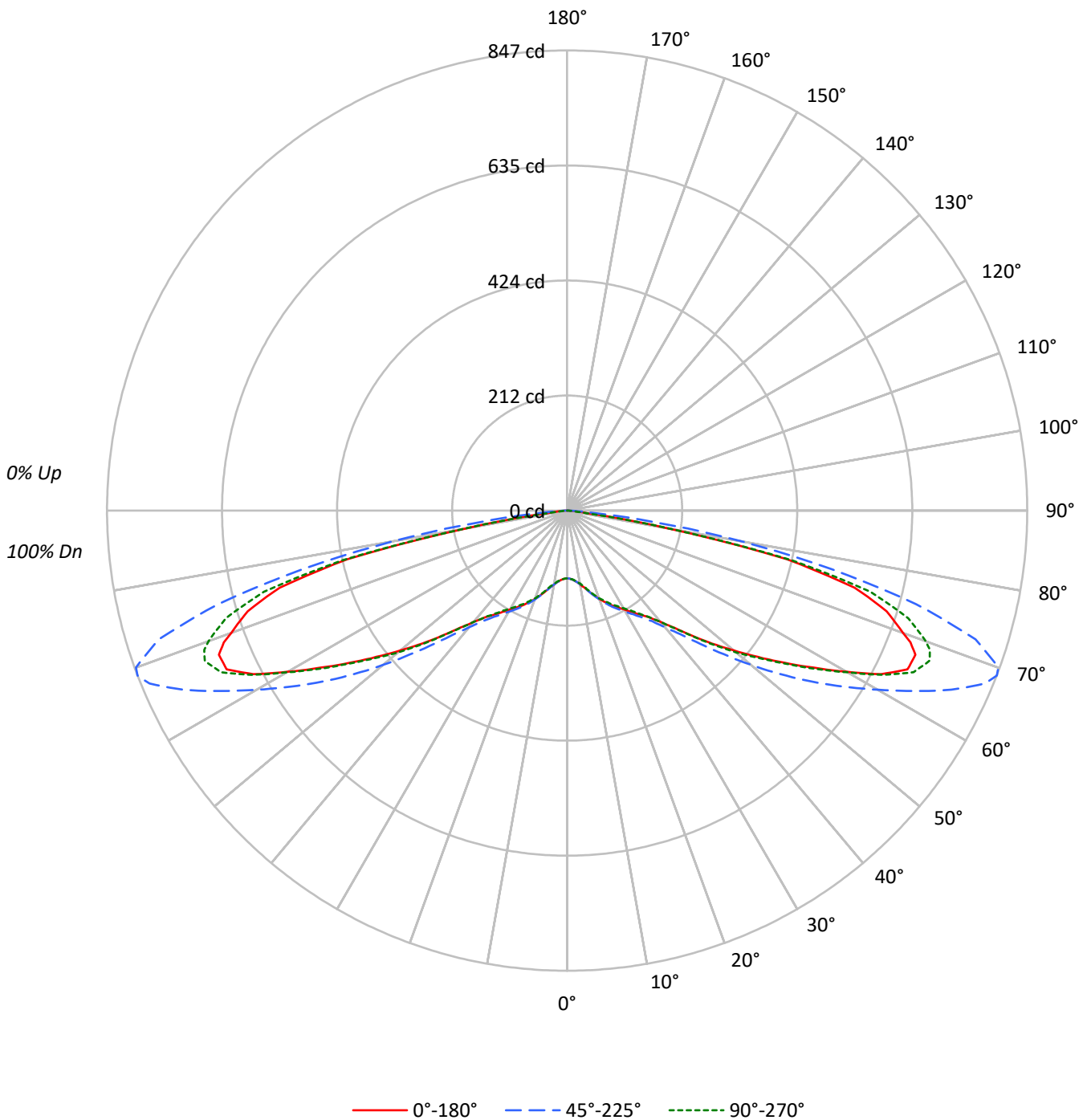
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	96	90	84	100	94	88	82	89	84	80	85	81	77	81	78	75	72
2	89	77	67	58	86	75	65	58	71	63	56	67	60	55	64	58	53	51
3	78	63	51	42	75	61	50	42	58	48	41	54	46	40	52	45	39	36
4	69	52	41	31	66	51	40	31	48	38	31	45	37	30	43	36	29	27
5	62	45	33	24	59	44	32	24	41	31	24	39	30	23	37	29	23	20
6	56	39	28	19	54	38	27	19	36	26	19	34	25	19	32	24	18	16
7	51	34	24	16	49	34	23	16	32	22	16	30	22	15	29	21	15	13
8	47	31	20	13	45	30	20	13	29	20	13	27	19	13	26	18	13	10
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	23	16	11	9
10	41	25	16	10	39	25	16	10	24	15	10	23	15	10	22	15	10	7

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

	0°	45°	90°
0°	7896	7896	7896
5°	8148	8148	8116
10°	8873	8853	8776
15°	10069	10114	9970
20°	11650	11751	11549
25°	13414	13623	13225
30°	15361	15712	15178
35°	18064	18551	17909
40°	22085	23102	22085
45°	29164	31054	29281
50°	39441	43519	39983
55°	53903	60571	54213
60°	75107	83515	75398
65°	103586	116920	105399
70°	121721	156377	129996
75°	133915	162562	141352
80°	67712	118504	69754
85°	8790	32111	6756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.5	0.5
10°-20°	44.2	1.8
20°-30°	89.5	3.7
30°-40°	150.1	6.3
40°-50°	264.7	11.0
50°-60°	466.8	19.4
60°-70°	712.6	29.7
70°-80°	595.5	24.8
80°-90°	64.7	2.7
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°	146.2	6.1
0°-40°	296.3	12.3
0°-60°	1027.8	42.8
0°-90°	2400.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	125	125	125	125	125	
5°	128	128	128	128	128	13
15°	154	154	154	153	152	44
25°	192	193	195	192	189	89
35°	234	235	240	235	232	148
45°	326	333	347	336	327	256
55°	488	511	549	516	491	442
65°	691	729	780	735	704	662
75°	547	578	664	615	578	527
85°	12	20	44	18	9	40
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°	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7
2.5°	125.7	125.9	125.7	125.7	125.7	125.7	125.7	125.4	125.4	125.4	125.7
5°	128.2	128.4	128.2	128.4	128.4	128.4	128.4	128.2	128.2	128.2	128.2
7.5°	132.2	132.2	132.2	132.5	132.2	132.2	132.5	132.2	132.2	132.2	132.2
10°	138.0	137.7	137.7	137.7	137.7	137.7	138.0	138.0	138.0	137.7	137.7
12.5°	145.0	144.8	145.0	145.0	145.3	145.3	145.3	145.3	145.3	145.3	145.0
15°	153.6	153.6	153.6	153.8	154.3	154.3	154.1	154.3	154.3	154.3	154.3
17.5°	163.1	163.6	163.1	163.4	163.6	163.4	163.9	164.1	164.4	164.1	163.4
20°	172.9	173.2	173.2	173.2	173.2	173.7	173.9	173.9	174.7	174.4	174.2
22.5°	182.2	182.7	182.7	183.0	183.0	183.7	183.7	183.7	184.2	184.7	184.2
25°	192.0	191.8	191.8	192.3	192.5	193.5	193.5	194.0	194.8	195.0	194.5
27.5°	200.8	200.6	200.6	201.3	201.6	202.8	202.8	203.8	204.3	204.6	204.1
30°	210.1	210.1	209.9	210.6	211.4	212.4	212.9	213.9	214.6	214.9	214.4
32.5°	221.2	220.7	220.9	221.4	221.9	222.9	223.7	224.9	225.9	226.2	225.7
35°	233.7	233.0	233.2	233.7	234.5	236.0	237.3	238.0	239.5	240.0	239.0
37.5°	247.6	247.8	247.6	248.8	250.1	251.8	253.3	254.3	255.9	256.6	255.9
40°	267.2	266.4	267.2	268.4	270.4	272.7	275.7	276.5	278.0	279.5	277.7
42.5°	292.5	292.0	293.8	294.8	297.1	299.6	303.4	305.4	307.6	308.6	307.1
45°	325.7	325.7	327.7	328.0	331.5	334.8	340.1	342.6	346.8	346.8	346.8
47.5°	362.4	363.9	365.2	367.7	370.2	376.2	381.5	387.0	391.1	391.6	390.8
50°	400.4	401.9	405.6	409.2	414.7	422.2	428.0	435.3	438.8	441.8	440.8
52.5°	442.3	442.6	447.1	451.6	459.7	468.0	477.3	484.8	491.1	493.9	491.6
55°	488.3	488.8	492.9	497.6	506.7	516.2	527.8	535.6	543.6	548.7	544.9
57.5°	538.1	538.4	542.4	548.2	559.0	568.5	579.6	590.6	598.2	602.7	600.2
60°	593.1	594.4	597.4	604.7	615.0	625.1	636.1	645.9	654.7	659.5	657.0
62.5°	652.0	653.2	657.5	663.3	672.3	683.4	693.9	706.5	713.8	719.1	715.3
65°	691.4	693.7	700.5	708.3	721.6	735.9	748.2	765.3	774.1	780.4	776.9
67.5°	693.9	695.2	703.5	715.3	733.1	754.7	779.9	806.5	823.9	832.2	826.1
69°	676.8	678.6	686.6	700.0	719.8	744.9	774.9	808.0	834.7	847.0	841.2
70°	657.5	661.3	670.0	684.6	704.0	730.4	761.3	796.7	827.9	844.7	840.5
72.5°	616.8	617.8	623.6	635.1	649.9	671.8	701.0	734.4	764.0	788.2	791.7
75°	547.4	550.7	554.9	562.7	570.3	586.1	605.7	628.6	645.9	664.5	665.3
77.5°	413.7	423.5	426.8	428.5	431.8	444.4	461.4	481.3	495.6	498.6	498.1
80°	185.7	198.8	201.8	216.1	224.9	245.8	271.9	302.4	322.7	325.0	319.4
82.5°	36.4	39.0	45.5	56.8	77.4	89.7	106.8	128.2	147.8	159.1	152.3
85°	12.1	12.8	14.8	16.3	18.8	21.4	25.9	32.2	40.0	44.2	39.5
87.5°	4.8	4.8	5.5	6.0	6.5	6.5	6.5	6.0	5.8	4.8	4.3
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°	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7
2.5°	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4
5°	128.2	127.9	127.9	127.7	127.7	127.7	127.7	127.7
7.5°	131.9	131.7	131.4	131.7	131.4	131.4	131.4	131.4
10°	137.7	137.2	137.0	136.7	136.7	136.7	136.5	136.5
12.5°	144.5	144.5	144.3	144.0	143.5	143.8	143.5	143.0
15°	153.8	153.3	153.1	152.8	152.3	152.3	152.3	152.1
17.5°	163.1	162.6	162.6	161.9	161.6	161.6	161.6	161.9
20°	173.4	172.7	172.2	171.7	171.2	171.4	170.9	171.4
22.5°	183.7	182.7	182.2	181.5	180.7	180.7	180.5	180.0
25°	193.8	192.5	192.0	191.3	190.3	190.3	189.8	189.3
27.5°	203.3	202.1	201.6	200.1	199.1	198.8	198.3	198.0
30°	213.9	212.4	211.6	210.1	208.6	208.4	207.6	207.6
32.5°	224.9	223.4	222.9	220.7	219.4	219.4	218.9	218.4
35°	238.8	236.5	236.0	233.7	232.0	232.0	231.5	231.7
37.5°	255.1	253.3	251.6	249.8	247.8	247.6	247.1	246.6
40°	277.0	275.0	272.9	270.4	268.7	268.2	267.4	267.2
42.5°	306.1	304.1	300.1	298.1	296.3	294.8	294.6	294.3
45°	343.3	340.8	338.0	334.3	332.0	328.7	328.2	327.0
47.5°	388.1	383.3	378.5	375.2	371.7	367.9	367.2	365.2
50°	435.6	431.8	423.7	418.5	412.9	409.2	406.7	405.9
52.5°	486.6	479.5	471.5	464.5	456.4	451.4	446.9	445.6
55°	539.9	529.8	519.8	511.5	503.4	497.4	493.1	491.1
57.5°	593.1	582.1	571.0	562.0	555.2	547.4	543.1	542.1
60°	648.7	638.1	626.8	617.8	609.5	602.7	600.2	595.4
62.5°	707.5	696.4	685.9	677.1	666.5	661.8	657.5	654.7
65°	765.3	752.5	739.2	729.9	719.3	712.5	707.2	703.5
67.5°	810.0	790.7	772.8	757.3	742.9	732.4	725.6	722.1
69°	822.6	798.5	775.6	755.3	738.4	726.6	719.1	715.5
70°	821.1	794.5	769.3	747.0	728.6	716.0	708.8	702.2
72.5°	774.6	750.2	722.3	697.9	681.4	669.3	662.0	658.5
75°	661.0	644.7	624.6	605.7	593.6	586.6	577.6	577.8
77.5°	481.3	481.8	468.2	448.9	435.3	432.8	428.8	424.7
80°	298.6	274.7	259.1	238.3	222.9	209.6	203.8	191.3
82.5°	137.7	107.6	83.4	63.1	48.5	38.0	33.2	27.1
85°	30.7	23.4	19.4	15.6	13.3	12.3	10.1	9.3
87.5°	4.3	3.8	3.5	3.3	2.8	2.0	1.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)