

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: P147324

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147324  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
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-E1-5MQ-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (7) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2430.7 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

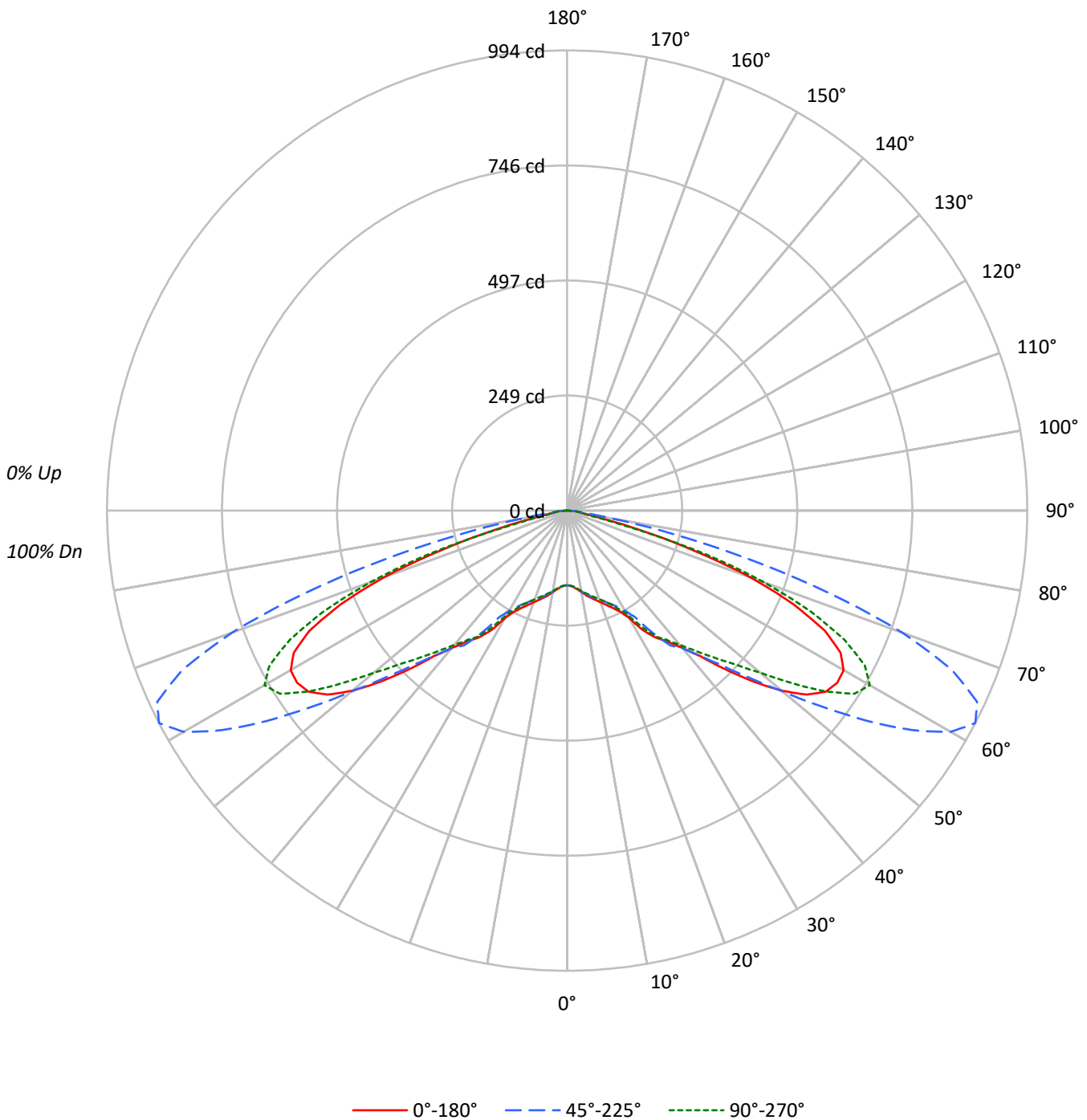
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	100	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	68	58	50	79	67	57	49	63	55	48	60	53	47	57	51	46	44
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	37	30	46	36	29	43	35	29	41	34	28	26
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	37	27	20	52	37	27	19	35	26	19	33	25	19	32	24	19	16
8	49	33	23	16	47	33	23	16	31	22	16	30	22	16	28	21	16	13
9	46	30	20	14	44	29	20	14	28	20	14	27	19	14	26	19	13	11
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12	10

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

	0°	45°	90°
0°	10219	10219	10219
5°	10557	10500	10481
10°	11489	11367	11309
15°	12750	12514	12389
20°	14177	13833	13719
25°	16180	15524	15642
30°	19543	18234	18856
35°	25941	24990	25624
40°	31987	32087	31268
45°	43590	42345	40214
50°	59595	59910	53695
55°	75286	87462	75187
60°	87314	121062	95571
65°	91960	146375	99032
70°	78012	142677	83844
75°	39583	100155	34372
80°	12543	34786	12653
85°	13585	18089	13876



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.2	0.7
10°-20°	54.7	2.2
20°-30°	105.7	4.3
30°-40°	204.6	8.4
40°-50°	369.5	15.2
50°-60°	642.5	26.4
60°-70°	729.4	30.0
70°-80°	282.8	11.6
80°-90°	25.5	1.0
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°	176.5	7.3
0°-40°	381.1	15.7
0°-60°	1393.1	57.3
0°-90°	2430.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	161	161	161	161	161	
5°	166	166	165	165	165	16
15°	194	193	191	190	189	56
25°	232	227	222	222	224	109
35°	336	329	323	329	332	210
45°	487	476	473	454	449	381
55°	682	715	792	705	681	600
65°	614	705	977	758	661	585
75°	162	226	409	214	140	196
85°	19	27	25	27	19	18
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°	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4
2.5°	162.4	162.8	162.8	162.5	162.5	162.5	162.4	162.0	161.8	162.1	162.4
5°	166.1	166.1	166.1	166.1	165.9	165.9	165.6	165.4	165.5	165.2	165.1
7.5°	171.9	171.6	171.5	171.4	171.4	171.1	170.8	170.3	170.4	170.2	170.1
10°	178.7	178.9	178.4	178.8	178.2	178.0	177.6	177.3	177.1	176.8	176.8
12.5°	186.9	186.5	186.5	186.2	186.0	185.7	185.0	184.8	184.4	184.1	183.8
15°	194.5	194.4	193.9	193.4	193.2	193.0	192.1	191.6	191.5	190.9	190.4
17.5°	202.2	202.0	201.3	201.1	200.6	200.2	199.5	198.7	198.3	198.0	197.5
20°	210.4	210.1	209.5	209.0	208.4	207.8	206.7	206.1	205.7	205.3	204.8
22.5°	220.5	220.0	219.0	218.2	216.8	216.3	214.8	213.8	213.2	212.8	212.5
25°	231.6	231.8	230.4	229.2	227.6	226.2	224.4	223.3	222.6	222.2	222.0
27.5°	245.4	245.6	244.3	242.7	240.2	238.6	236.1	234.8	234.5	234.0	233.8
30°	267.3	266.2	264.0	261.4	259.2	255.8	252.2	251.0	249.7	249.4	249.3
32.5°	307.5	306.8	305.1	298.6	295.6	288.8	282.4	278.8	274.6	272.6	271.4
35°	335.6	335.4	334.0	331.8	329.9	328.5	324.7	324.1	323.3	323.3	324.4
37.5°	356.4	354.9	354.6	355.0	354.5	354.8	357.8	362.0	365.4	367.2	367.0
40°	387.0	384.9	386.2	385.3	384.2	383.9	384.9	386.5	388.2	388.2	387.8
42.5°	427.2	428.2	428.6	425.0	422.6	422.0	424.4	423.8	425.5	424.8	423.2
45°	486.8	486.0	485.2	480.8	477.0	474.0	474.6	473.8	473.8	472.9	471.6
47.5°	546.8	548.9	545.2	543.1	538.8	536.7	538.4	537.0	539.9	534.6	532.0
50°	605.0	606.6	605.4	602.3	602.3	605.3	607.4	610.2	614.2	608.2	599.2
52.5°	652.8	654.1	656.0	658.4	664.6	671.0	680.1	689.8	697.4	696.4	686.0
55°	682.0	683.5	686.6	695.3	706.4	723.2	743.7	766.2	783.8	792.3	784.8
57.5°	691.8	693.0	701.4	711.9	729.1	754.2	788.4	827.3	861.0	882.6	879.2
60°	689.5	689.5	698.2	712.6	736.7	769.8	818.3	872.2	923.9	956.0	951.3
62.5°	665.8	667.0	679.5	696.6	725.8	765.6	823.4	892.1	954.0	994.0	990.2
65°	613.8	614.7	628.1	648.6	681.2	728.1	791.3	867.4	938.4	977.0	969.6
67.5°	529.7	530.6	541.5	564.6	599.0	648.2	716.4	800.2	869.8	900.2	878.2
70°	421.4	423.8	431.0	455.4	481.6	529.7	592.5	676.4	742.0	770.7	746.6
72.5°	287.2	293.6	302.1	323.8	348.8	388.8	438.8	509.4	562.1	595.4	574.0
75°	161.8	170.8	173.4	189.9	210.5	242.0	278.6	329.2	382.4	409.4	383.5
77.5°	69.8	77.3	80.5	88.2	104.3	117.5	139.8	173.9	215.0	234.0	203.0
80°	34.4	36.2	37.6	40.0	44.5	48.8	59.4	74.2	91.1	95.4	76.0
82.5°	26.6	27.9	30.3	32.2	33.3	34.4	35.4	37.4	39.0	39.9	37.7
85°	18.7	20.3	23.0	25.2	26.4	27.2	28.2	28.8	27.3	24.9	26.2
87.5°	4.9	6.4	9.0	9.6	11.0	11.6	11.3	11.6	10.6	7.7	8.6
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°	161.4	161.4	161.4	161.4	161.4	161.4	161.4	161.4
2.5°	162.2	162.1	162.2	162.2	162.2	162.1	162.1	162.1
5°	165.1	165.1	165.2	165.0	165.0	165.1	165.0	164.9
7.5°	170.0	169.9	169.9	169.8	169.9	169.8	169.8	169.6
10°	176.6	176.3	176.4	176.1	176.1	175.9	175.9	175.9
12.5°	183.6	183.2	183.4	183.0	182.4	182.5	182.6	182.5
15°	190.4	190.0	189.6	189.4	189.0	189.1	189.1	189.0
17.5°	197.3	196.6	196.4	196.0	195.9	195.9	195.9	196.0
20°	204.5	204.0	203.8	203.5	203.4	203.7	203.8	203.6
22.5°	212.1	211.9	212.1	211.8	212.2	212.5	212.6	212.4
25°	221.8	221.6	222.0	222.8	223.4	223.6	224.2	223.9
27.5°	234.2	234.0	234.9	236.1	236.8	238.1	238.8	239.0
30°	250.4	251.4	252.0	254.4	255.0	257.0	257.0	257.9
32.5°	273.7	275.8	279.6	283.5	288.9	292.8	292.8	294.8
35°	325.0	325.8	328.8	329.4	330.5	331.8	330.5	331.5
37.5°	364.3	360.4	357.6	353.8	351.4	351.4	351.6	351.4
40°	384.4	382.9	381.7	378.4	377.9	377.8	377.8	378.3
42.5°	420.4	416.7	414.7	411.9	411.0	410.8	410.7	410.9
45°	467.1	461.2	455.8	453.0	450.6	448.4	449.2	449.1
47.5°	521.5	512.3	503.6	498.8	494.6	492.8	491.5	491.1
50°	587.8	575.0	563.6	554.7	548.6	548.5	549.2	545.1
52.5°	668.9	648.7	634.6	622.6	616.9	616.2	614.2	612.0
55°	758.9	734.9	711.6	698.7	691.3	687.2	684.9	681.1
57.5°	851.6	819.4	785.9	765.2	752.1	743.0	738.2	736.1
60°	923.2	879.0	835.0	801.6	779.8	766.4	758.2	754.7
62.5°	951.2	891.4	835.0	791.2	759.8	741.2	730.0	725.1
65°	917.8	846.8	782.5	734.3	699.2	678.4	666.3	661.0
67.5°	824.0	761.4	691.4	643.4	607.4	586.8	573.6	569.8
70°	690.8	626.8	560.0	517.1	485.0	468.2	454.6	452.9
72.5°	519.2	464.0	406.6	371.2	345.3	317.6	310.6	314.2
75°	332.8	281.1	230.1	198.2	174.6	148.1	138.0	140.5
77.5°	157.6	122.0	88.1	68.1	57.2	48.8	46.8	45.5
80°	58.4	47.4	41.8	39.7	38.2	36.8	35.8	34.7
82.5°	37.8	37.0	35.8	35.4	34.3	32.6	29.3	27.9
85°	28.2	28.2	26.8	26.9	26.0	23.8	20.8	19.1
87.5°	8.3	7.4	6.8	6.3	6.2	5.5	4.0	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)