

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: P147319

Luminaire Tested: **TLM-E01-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147319  
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-E01-LED-E1-5MQ-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

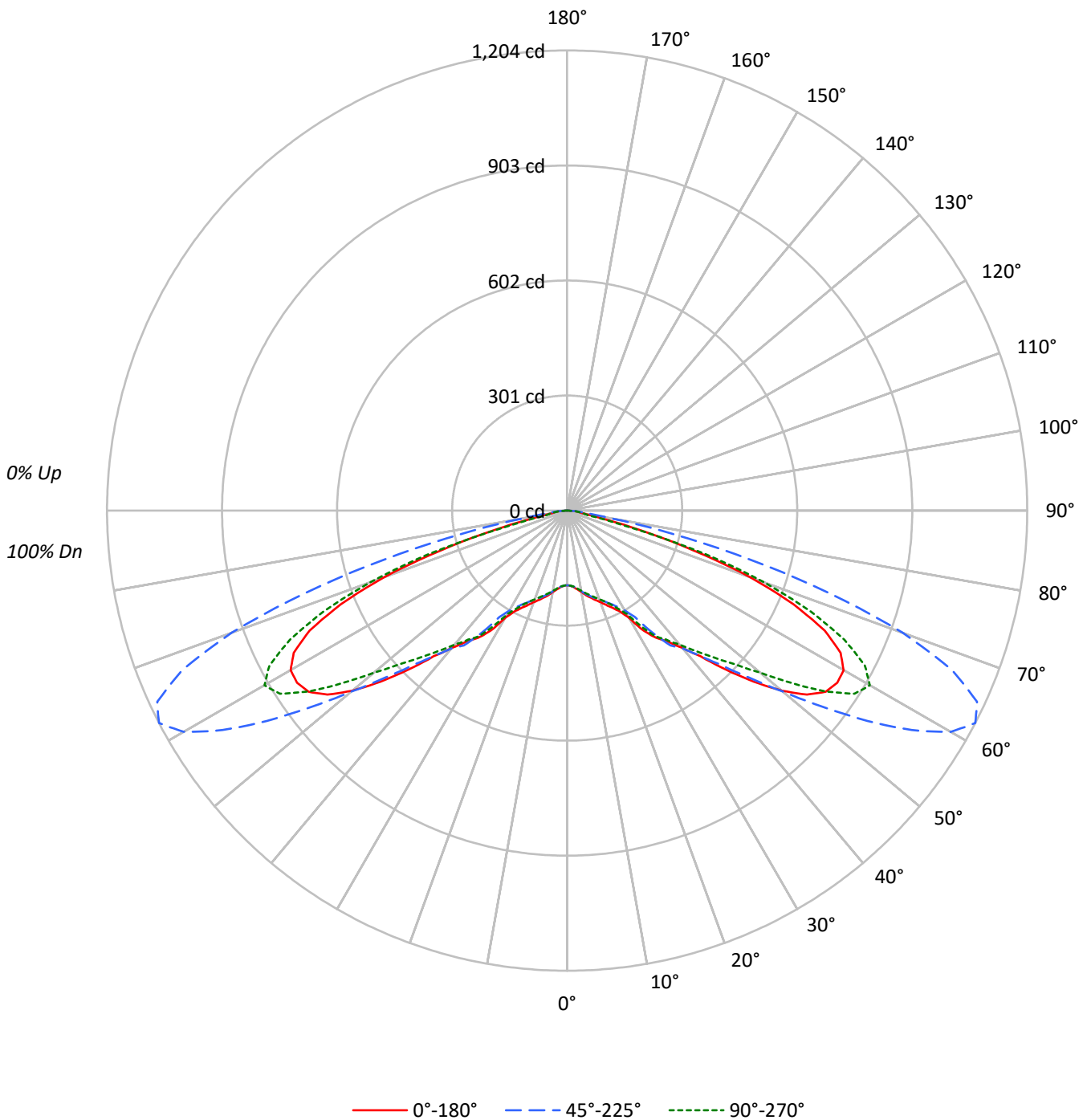
Lumens per Lamp: N/A  
Luminaire Lumens: 2944.4 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 3.55 / 3.67 / 3.6  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.7  
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°	12379	12379	12379
5°	12788	12718	12693
10°	13913	13772	13701
15°	15444	15155	15005
20°	17169	16764	16616
25°	19603	18807	18954
30°	23674	22080	22840
35°	31429	30277	31042
40°	38749	38864	37872
45°	52795	51291	48721
50°	72203	72578	65052
55°	91204	105952	91083
60°	105778	146668	115782
65°	111392	177298	119962
70°	94489	172835	101561
75°	47925	121341	41638
80°	15205	42115	15314
85°	16419	21940	16782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.6	0.7
10°-20°	66.2	2.2
20°-30°	128.0	4.3
30°-40°	247.9	8.4
40°-50°	447.6	15.2
50°-60°	778.2	26.4
60°-70°	883.5	30.0
70°-80°	342.5	11.6
80°-90°	30.9	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°	213.8	7.3
0°-40°	461.7	15.7
0°-60°	1687.5	57.3
0°-90°	2944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	196	196	196	196	196	
5°	201	201	200	200	200	20
15°	236	234	231	230	229	67
25°	281	275	269	269	271	132
35°	407	399	392	399	402	254
45°	590	576	573	550	544	462
55°	826	866	960	854	825	727
65°	744	854	1183	919	801	709
75°	196	274	496	259	170	237
85°	23	32	30	32	23	22
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°	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5
2.5°	196.7	197.3	197.2	196.8	196.8	196.9	196.7	196.2	196.0	196.4	196.6
5°	201.2	201.2	201.2	201.2	201.0	201.0	200.6	200.4	200.5	200.1	200.0
7.5°	208.2	207.8	207.8	207.6	207.6	207.3	206.8	206.2	206.4	206.3	206.2
10°	216.4	216.6	216.2	216.6	215.8	215.7	215.0	214.8	214.6	214.2	214.2
12.5°	226.4	225.9	225.9	225.6	225.3	225.0	224.1	224.0	223.3	223.0	222.6
15°	235.6	235.5	234.9	234.2	234.1	233.8	232.8	232.2	232.0	231.2	230.6
17.5°	245.0	244.6	243.9	243.6	243.0	242.5	241.6	240.7	240.2	239.9	239.2
20°	254.8	254.5	253.8	253.2	252.4	251.8	250.4	249.6	249.2	248.8	248.2
22.5°	267.2	266.5	265.3	264.2	262.6	262.0	260.2	259.1	258.3	257.7	257.4
25°	280.6	280.7	279.0	277.7	275.6	274.0	271.7	270.5	269.7	269.2	269.0
27.5°	297.2	297.4	295.9	294.0	290.9	289.1	286.0	284.6	284.0	283.4	283.3
30°	323.8	322.4	319.8	316.6	313.9	310.0	305.5	304.0	302.5	302.0	302.0
32.5°	372.5	371.7	369.6	361.7	358.0	349.8	342.0	337.6	332.6	330.2	328.6
35°	406.6	406.3	404.6	401.9	399.6	397.9	393.4	392.6	391.6	391.7	392.9
37.5°	431.7	429.9	429.6	430.0	429.4	429.8	433.4	438.4	442.7	444.8	444.5
40°	468.8	466.2	467.8	466.7	465.4	465.0	466.3	468.2	470.2	470.2	469.8
42.5°	517.4	518.6	519.2	514.8	512.0	511.2	514.1	513.4	515.4	514.7	512.7
45°	589.6	588.8	587.8	582.4	577.8	574.2	575.0	573.9	574.0	572.8	571.3
47.5°	662.4	665.0	660.6	658.0	652.8	650.2	652.3	650.4	654.0	647.6	644.5
50°	733.0	734.8	733.3	729.6	729.6	733.2	735.8	739.2	744.0	736.8	725.8
52.5°	790.8	792.3	794.6	797.7	805.1	812.9	823.8	835.6	844.8	843.4	831.0
55°	826.2	828.0	831.8	842.2	855.6	876.0	900.9	928.1	949.4	959.8	950.6
57.5°	838.0	839.4	849.7	862.4	883.2	913.5	955.0	1002.1	1043.1	1069.1	1065.0
60°	835.3	835.2	845.8	863.2	892.3	932.6	991.3	1056.4	1119.2	1158.2	1152.4
62.5°	806.5	808.0	823.1	844.0	879.2	927.4	997.4	1080.6	1155.7	1204.1	1199.4
65°	743.5	744.6	760.8	785.6	825.0	882.0	958.6	1050.8	1136.8	1183.4	1174.6
67.5°	641.7	642.7	656.0	684.0	725.6	785.2	867.8	969.4	1053.6	1090.4	1063.9
70°	510.4	513.5	522.0	551.6	583.4	641.6	717.8	819.2	898.8	933.6	904.4
72.5°	347.8	355.6	366.0	392.2	422.6	471.0	531.6	617.1	681.0	721.2	695.2
75°	195.9	206.8	210.0	230.0	255.0	293.2	337.5	398.8	463.2	496.0	464.6
77.5°	84.6	93.6	97.6	106.9	126.4	142.4	169.2	210.7	260.4	283.4	245.8
80°	41.7	43.8	45.5	48.4	53.9	59.0	71.8	90.0	110.4	115.5	92.0
82.5°	32.2	33.8	36.7	39.0	40.3	41.7	42.9	45.3	47.4	48.4	45.6
85°	22.6	24.7	27.8	30.4	32.0	33.0	34.1	34.8	33.0	30.2	31.7
87.5°	5.9	7.8	10.8	11.8	13.2	14.0	13.7	14.2	12.8	9.3	10.4
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°	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5
2.5°	196.5	196.4	196.5	196.5	196.5	196.4	196.4	196.4
5°	200.0	200.0	200.2	199.9	199.9	200.0	199.8	199.7
7.5°	206.0	205.8	205.8	205.6	205.8	205.6	205.6	205.5
10°	213.9	213.6	213.7	213.2	213.2	213.2	213.1	213.1
12.5°	222.4	222.0	222.1	221.6	220.9	221.0	221.2	221.0
15°	230.6	230.2	229.8	229.4	229.0	229.1	229.1	228.9
17.5°	239.0	238.1	238.0	237.5	237.3	237.3	237.4	237.5
20°	247.6	247.0	246.9	246.4	246.3	246.8	246.9	246.6
22.5°	257.0	256.6	257.0	256.6	257.1	257.4	257.6	257.3
25°	268.7	268.4	268.8	269.9	270.5	270.8	271.6	271.3
27.5°	283.8	283.4	284.5	286.0	287.0	288.5	289.2	289.5
30°	303.2	304.6	305.2	308.2	308.8	311.3	311.3	312.4
32.5°	331.6	334.2	338.7	343.4	350.0	354.7	354.7	357.1
35°	393.6	394.7	398.2	399.0	400.3	401.8	400.4	401.6
37.5°	441.3	436.6	433.2	428.6	425.6	425.6	426.0	425.6
40°	465.6	463.8	462.3	458.4	457.8	457.6	457.6	458.2
42.5°	509.2	504.8	502.4	499.0	497.9	497.6	497.5	497.8
45°	565.8	558.6	552.1	548.8	545.9	543.1	544.0	544.1
47.5°	631.8	620.6	610.0	604.2	599.2	596.8	595.4	594.9
50°	712.0	696.4	682.8	671.9	664.6	664.4	665.2	660.4
52.5°	810.3	785.8	768.7	754.1	747.3	746.5	744.0	741.3
55°	919.2	890.2	862.0	846.4	837.4	832.6	829.6	825.1
57.5°	1031.6	992.5	952.0	926.9	911.1	900.1	894.3	891.7
60°	1118.2	1064.8	1011.4	971.0	944.8	928.4	918.4	914.3
62.5°	1152.4	1079.9	1011.4	958.4	920.4	897.8	884.2	878.3
65°	1111.7	1025.8	947.9	889.4	847.0	821.9	807.1	800.7
67.5°	998.2	922.4	837.6	779.4	735.8	710.9	694.9	690.2
70°	836.8	759.3	678.3	626.4	587.4	567.2	550.6	548.6
72.5°	628.8	562.0	492.6	449.6	418.4	384.8	376.3	380.6
75°	403.1	340.6	278.7	240.0	211.4	179.4	167.1	170.2
77.5°	190.9	147.9	106.7	82.5	69.2	59.2	56.6	55.1
80°	70.8	57.4	50.7	48.1	46.2	44.6	43.3	42.0
82.5°	45.8	44.8	43.4	43.0	41.6	39.4	35.4	33.8
85°	34.2	34.2	32.4	32.6	31.5	28.8	25.2	23.1
87.5°	10.0	9.0	8.2	7.6	7.5	6.7	4.9	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)