

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: P147841

Luminaire Tested: **TLM-E01-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P147841  
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-E01-LED-E1-5WQ-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

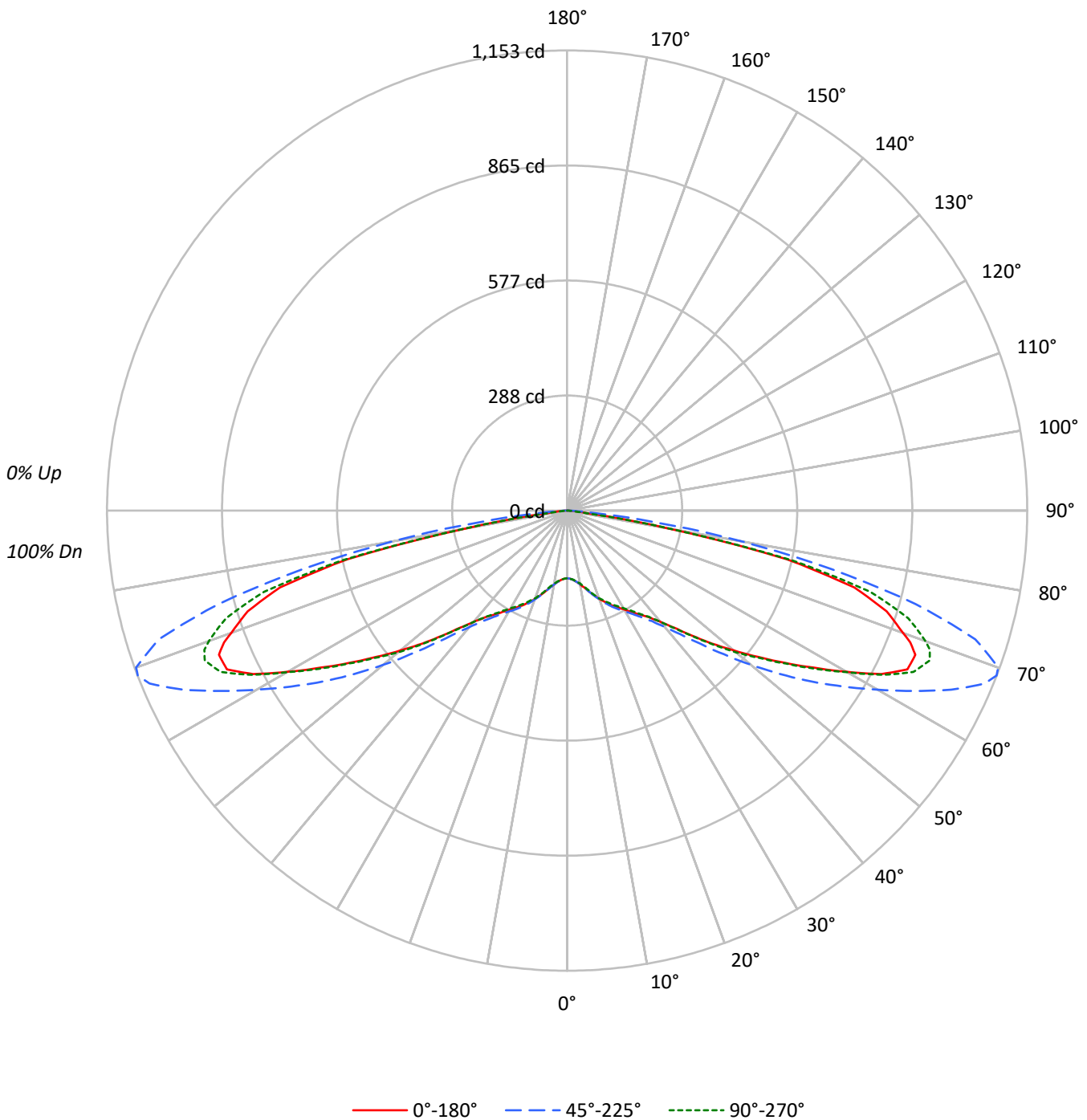
Lumens per Lamp: N/A  
Luminaire Lumens: 3266.9 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	10739	10739	10739
5°	11085	11085	11047
10°	12074	12049	11939
15°	13700	13766	13562
20°	15855	15996	15720
25°	18255	18542	17997
30°	20903	21378	20654
35°	24588	25245	24379
40°	30053	31434	30053
45°	39695	42265	39847
50°	53675	59230	54414
55°	73365	82428	73774
60°	102219	113654	102612
65°	140967	159110	143439
70°	165652	212822	176907
75°	182256	221227	192359
80°	92178	161275	94913
85°	11914	43734	9226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.0	0.5
10°-20°	60.2	1.8
20°-30°	121.8	3.7
30°-40°	204.2	6.3
40°-50°	360.2	11.0
50°-60°	635.2	19.4
60°-70°	969.8	29.7
70°-80°	810.4	24.8
80°-90°	88.1	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°	199.0	6.1
0°-40°	403.2	12.3
0°-60°	1398.7	42.8
0°-90°	3266.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	170	170	170	170	170	
5°	174	175	174	174	174	17
15°	209	210	210	208	207	60
25°	261	263	265	261	258	121
35°	318	320	327	320	315	202
45°	443	453	472	457	445	348
55°	665	696	747	702	668	602
65°	941	992	1062	1000	957	901
75°	745	787	904	837	786	717
85°	16	27	60	24	13	54
90°	0	0	0	0	0	



TEST NUMBER: P147841

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
2.5°	171.0	171.4	171.0	171.0	171.0	171.0	171.0	170.7	170.7	170.7	171.0
5°	174.4	174.8	174.4	174.8	174.8	174.8	174.8	174.4	174.4	174.4	174.4
7.5°	179.9	179.9	179.9	180.3	179.9	179.9	180.3	179.9	179.9	179.9	179.9
10°	187.8	187.4	187.4	187.4	187.4	187.4	187.8	187.8	187.8	187.8	187.4
12.5°	197.4	197.0	197.4	197.4	197.7	197.7	197.7	197.7	197.7	197.7	197.4
15°	209.0	209.0	209.0	209.3	210.0	210.0	209.7	210.0	210.0	210.0	210.0
17.5°	222.0	222.7	222.0	222.3	222.7	222.3	223.0	223.3	223.7	223.3	222.3
20°	235.3	235.7	235.7	235.7	235.7	236.3	236.7	236.7	237.7	237.4	237.0
22.5°	248.0	248.7	248.7	249.0	249.0	250.0	250.0	250.0	250.7	251.4	250.7
25°	261.3	261.0	261.0	261.7	262.0	263.4	263.4	264.1	265.1	265.4	264.7
27.5°	273.3	272.9	272.9	274.0	274.3	276.0	276.0	277.4	278.1	278.4	277.7
30°	285.9	285.9	285.6	286.6	287.7	289.0	289.7	291.1	292.1	292.4	291.8
32.5°	301.0	300.3	300.6	301.3	302.0	303.4	304.4	306.1	307.5	307.8	307.1
35°	318.1	317.1	317.4	318.1	319.1	321.2	322.9	323.9	326.0	326.6	325.3
37.5°	336.9	337.2	336.9	338.6	340.3	342.7	344.8	346.1	348.2	349.2	348.2
40°	363.6	362.6	363.6	365.3	368.0	371.1	375.2	376.2	378.3	380.3	377.9
42.5°	398.1	397.4	399.8	401.2	404.3	407.7	412.8	415.6	418.7	420.0	418.0
45°	443.3	443.3	446.0	446.4	451.1	455.6	462.8	466.2	472.0	472.0	472.0
47.5°	493.2	495.3	497.0	500.4	503.8	512.0	519.2	526.7	532.2	532.9	531.9
50°	544.9	546.9	552.0	556.8	564.4	574.6	582.5	592.4	597.2	601.3	599.9
52.5°	602.0	602.3	608.5	614.6	625.6	636.9	649.5	659.8	668.3	672.1	669.0
55°	664.6	665.3	670.7	677.2	689.5	702.5	718.3	728.9	739.8	746.7	741.5
57.5°	732.3	732.6	738.1	746.0	760.7	773.7	788.7	803.8	814.0	820.2	816.8
60°	807.2	808.9	813.0	822.9	837.0	850.6	865.7	879.0	891.0	897.5	894.1
62.5°	887.2	888.9	894.8	902.6	914.9	930.0	944.4	961.5	971.4	978.6	973.4
65°	940.9	944.0	953.3	963.9	982.0	1001.5	1018.2	1041.5	1053.5	1062.0	1057.2
67.5°	944.4	946.1	957.4	973.4	997.7	1027.1	1061.3	1097.6	1121.2	1132.5	1124.3
69°	921.1	923.5	934.4	952.6	979.6	1013.8	1054.5	1099.6	1135.9	1152.7	1144.8
70°	894.8	899.9	911.9	931.7	958.0	994.0	1036.0	1084.3	1126.7	1149.6	1143.8
72.5°	839.4	840.7	848.6	864.3	884.5	914.3	953.9	999.4	1039.8	1072.6	1077.4
75°	745.0	749.4	755.2	765.8	776.1	797.6	824.3	855.4	879.0	904.3	905.4
77.5°	563.0	576.3	580.8	583.2	587.6	604.7	628.0	655.0	674.5	678.6	677.9
80°	252.8	270.5	274.7	294.2	306.1	334.5	370.1	411.5	439.2	442.3	434.7
82.5°	49.6	53.0	61.9	77.3	105.3	122.1	145.4	174.4	201.1	216.5	207.3
85°	16.4	17.4	20.2	22.2	25.7	29.1	35.2	43.8	54.4	60.2	53.7
87.5°	6.5	6.5	7.5	8.2	8.9	8.9	8.9	8.2	7.9	6.5	5.8
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°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
2.5°	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7
5°	174.4	174.1	174.1	173.8	173.8	173.8	173.8	173.8
7.5°	179.6	179.2	178.9	179.2	178.9	178.9	178.9	178.9
10°	187.4	186.8	186.4	186.1	186.1	186.1	185.7	185.7
12.5°	196.7	196.7	196.3	196.0	195.3	195.6	195.3	194.6
15°	209.3	208.6	208.3	208.0	207.3	207.3	207.3	206.9
17.5°	222.0	221.3	221.3	220.3	219.9	219.9	219.9	220.3
20°	236.0	235.0	234.3	233.6	232.9	233.3	232.6	233.3
22.5°	250.0	248.7	248.0	246.9	245.9	245.9	245.6	244.9
25°	263.7	262.0	261.3	260.3	258.9	258.9	258.2	257.6
27.5°	276.7	275.0	274.3	272.3	270.9	270.5	269.9	269.5
30°	291.1	289.0	288.0	285.9	283.9	283.5	282.5	282.5
32.5°	306.1	304.1	303.4	300.3	298.6	298.6	297.9	297.2
35°	324.9	321.9	321.2	318.1	315.7	315.7	315.0	315.4
37.5°	347.2	344.8	342.4	340.0	337.2	336.9	336.2	335.5
40°	376.9	374.2	371.5	368.0	365.6	365.0	363.9	363.6
42.5°	416.6	413.9	408.4	405.7	403.3	401.2	400.9	400.5
45°	467.2	463.8	460.0	454.9	451.8	447.4	446.7	445.0
47.5°	528.1	521.6	515.1	510.7	505.9	500.7	499.7	497.0
50°	592.7	587.6	576.7	569.5	562.0	556.8	553.4	552.4
52.5°	662.2	652.6	641.7	632.1	621.1	614.3	608.1	606.4
55°	734.7	721.0	707.3	696.0	685.1	676.9	671.1	668.3
57.5°	807.2	792.2	777.1	764.8	755.6	745.0	739.1	737.8
60°	882.8	868.4	853.0	840.7	829.4	820.2	816.8	810.3
62.5°	962.8	947.8	933.4	921.4	907.1	900.6	894.8	891.0
65°	1041.5	1024.1	1005.9	993.3	978.9	969.7	962.5	957.4
67.5°	1102.4	1076.0	1051.8	1030.6	1011.1	996.7	987.5	982.7
69°	1119.5	1086.6	1055.5	1027.8	1004.9	988.8	978.6	973.8
70°	1117.4	1081.2	1047.0	1016.5	991.6	974.5	964.5	955.6
72.5°	1054.2	1021.0	983.0	949.8	927.3	910.8	900.9	896.1
75°	899.6	877.3	850.0	824.3	807.9	798.3	786.0	786.3
77.5°	655.0	655.7	637.2	610.9	592.4	589.0	583.5	578.0
80°	406.3	373.8	352.6	324.2	303.4	285.3	277.4	260.3
82.5°	187.4	146.4	113.6	85.9	66.0	51.6	45.1	36.9
85°	41.7	31.8	26.3	21.2	18.1	16.8	13.7	12.7
87.5°	5.8	5.1	4.8	4.4	3.8	2.7	2.1	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)