

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: P148361

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148361
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-E01-LED-E1-5XQ-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

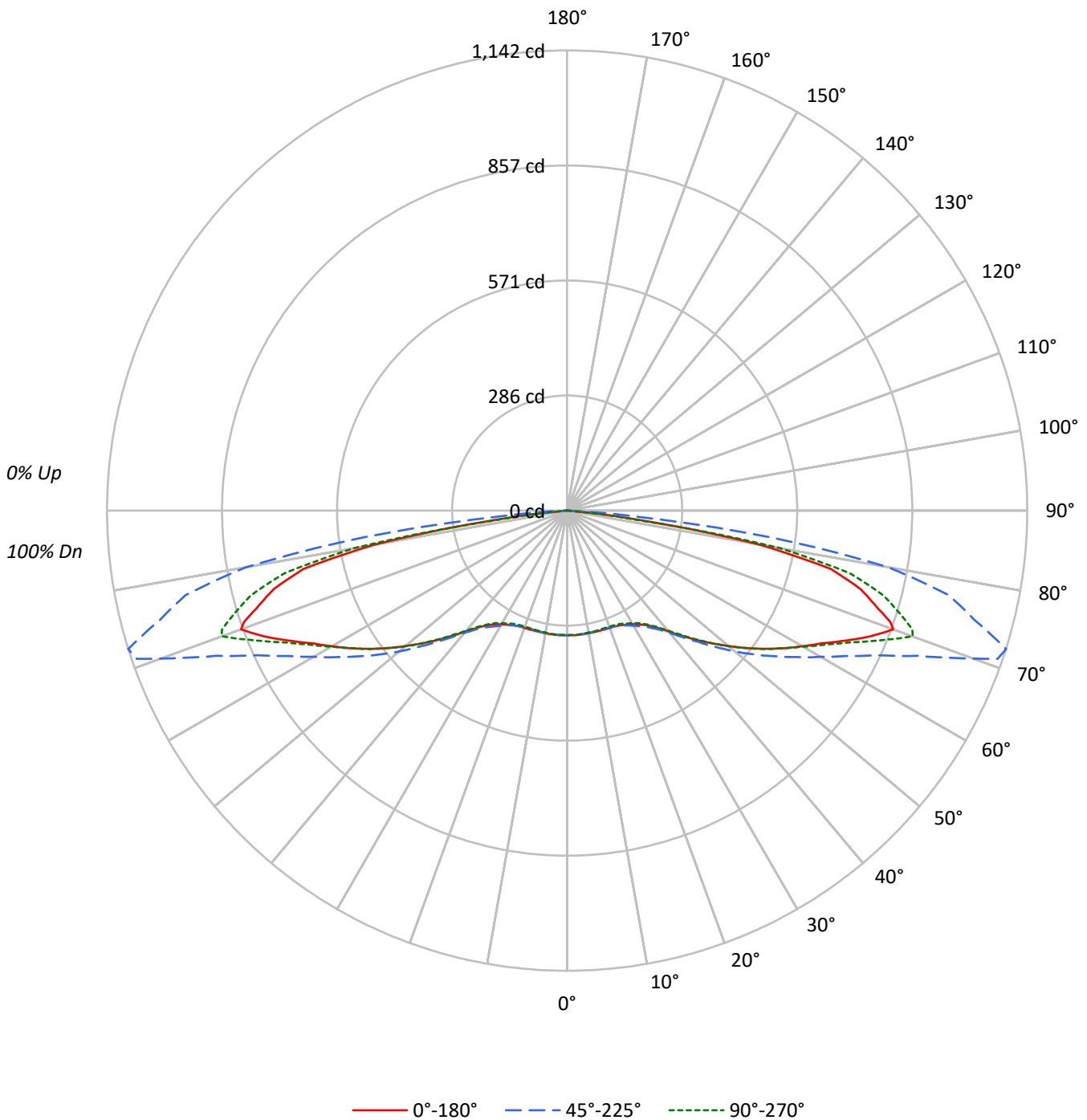
Lumens per Lamp: N/A
Luminaire Lumens: 3263.4 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): 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	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19578	19578	19578
5°	19691	19652	19640
10°	19867	19790	19758
15°	20268	20144	20091
20°	20881	20794	20652
25°	21923	21986	21657
30°	23805	24112	23579
35°	26837	27347	26667
40°	32351	32731	32087
45°	40581	41298	40429
50°	51458	53566	51577
55°	65980	69568	66124
60°	85250	91936	85567
65°	114299	127243	115962
70°	159431	198641	168947
75°	184458	255892	198793
80°	175532	294766	194748
85°	14312	119506	9299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	0.9
10°-20°	87.2	2.7
20°-30°	146.0	4.5
30°-40°	222.5	6.8
40°-50°	355.3	10.9
50°-60°	546.3	16.7
60°-70°	795.5	24.4
70°-80°	896.1	27.5
80°-90°	185.0	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°	262.6	8.0
0°-40°	485.1	14.9
0°-60°	1386.8	42.5
0°-90°	3263.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	309	309	309	309	309	
5°	310	310	309	309	309	30
15°	309	308	307	306	306	88
25°	314	314	315	312	310	146
35°	347	350	354	348	345	222
45°	453	453	461	454	452	354
55°	598	599	630	602	599	538
65°	763	766	849	777	774	760
75°	754	802	1046	868	813	768
85°	20	52	164	42	13	122
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°	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2
2.5°	309.7	309.8	309.8	309.6	309.7	309.6	309.5	309.4	308.8	309.1	309.6
5°	309.8	309.5	309.5	309.4	309.4	309.6	309.4	309.1	309.0	309.2	309.0
7.5°	309.5	309.2	309.0	308.9	309.0	309.1	308.9	308.5	308.8	308.5	308.2
10°	309.0	308.8	308.8	308.5	308.6	308.5	308.2	307.9	308.1	307.8	307.4
12.5°	309.2	308.8	308.7	308.6	308.5	308.4	307.9	307.5	307.6	307.4	307.0
15°	309.2	309.0	308.8	308.6	308.5	308.2	307.7	307.6	307.6	307.3	306.8
17.5°	309.4	309.2	309.2	308.8	308.6	308.5	307.9	307.7	307.9	307.4	307.0
20°	309.9	309.7	309.8	309.5	309.2	309.2	308.8	308.6	308.7	308.6	307.6
22.5°	310.9	310.9	311.1	311.0	310.9	311.0	310.7	310.6	310.7	310.7	310.0
25°	313.8	313.8	313.9	313.9	314.0	314.6	314.3	314.3	314.6	314.7	313.9
27.5°	319.3	319.1	319.3	319.5	319.9	320.7	320.5	320.8	321.4	321.2	320.6
30°	325.6	325.5	325.9	326.4	326.8	327.9	327.4	328.7	329.3	329.8	329.3
32.5°	334.8	334.8	335.7	336.0	336.7	337.9	338.1	339.1	339.9	340.8	340.2
35°	347.2	347.0	347.6	348.2	349.1	350.2	350.7	352.0	353.2	353.8	352.8
37.5°	366.0	365.0	366.2	366.5	367.2	367.5	368.7	370.4	371.7	371.5	370.8
40°	391.4	391.3	390.9	390.3	391.6	392.0	392.0	394.3	396.3	396.0	395.9
42.5°	421.2	420.4	420.0	420.0	420.6	420.8	423.4	425.2	426.6	427.0	426.6
45°	453.2	452.4	452.6	452.2	452.5	453.6	455.2	458.3	461.0	461.2	459.7
47.5°	487.6	485.2	487.1	484.4	486.0	486.9	490.7	495.4	500.2	501.0	499.7
50°	522.4	522.2	522.0	521.5	522.3	524.2	528.9	536.2	540.8	543.8	541.8
52.5°	560.6	559.3	558.7	557.8	558.6	562.3	568.9	575.2	583.5	587.0	584.2
55°	597.7	597.3	595.0	595.0	596.6	602.3	609.5	617.3	626.3	630.2	629.2
57.5°	635.8	633.4	632.7	631.6	634.9	640.3	649.1	663.1	672.5	676.9	674.3
60°	673.2	671.2	669.8	669.4	671.7	679.2	691.8	708.7	720.2	726.0	722.0
62.5°	713.2	712.0	710.2	708.3	713.0	722.6	738.4	757.0	774.0	781.2	775.0
65°	762.9	760.4	758.5	756.0	759.9	772.1	791.8	818.1	840.9	849.3	844.8
67.5°	815.4	813.1	813.3	811.7	818.6	835.4	860.9	896.6	927.2	941.4	933.1
70°	861.2	862.5	862.8	869.1	880.9	906.6	949.0	1004.8	1051.2	1073.0	1064.1
71°	847.7	850.6	854.9	861.4	881.8	912.1	970.0	1037.6	1093.1	1130.0	1117.6
72.5°	809.4	811.1	813.3	823.3	846.3	886.5	946.0	1023.4	1094.6	1142.4	1128.0
75°	754.0	755.6	756.4	763.3	784.3	819.4	873.9	942.5	1005.4	1046.0	1042.0
77.5°	670.3	670.7	676.6	687.3	710.8	751.0	808.4	879.6	938.6	970.2	950.2
80°	481.4	478.2	484.3	498.0	527.2	573.2	632.0	713.2	778.8	808.4	777.3
82.5°	183.2	193.1	208.7	231.4	241.3	292.4	347.4	395.1	450.3	512.0	496.6
85°	19.7	22.2	27.8	34.5	43.5	60.2	83.2	113.6	140.0	164.5	146.0
87.5°	7.4	7.5	8.4	9.6	9.8	10.3	11.0	12.8	11.9	10.2	8.3
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°	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2
2.5°	309.2	309.3	309.2	309.3	309.3	308.9	309.0	308.8
5°	309.1	308.8	308.9	309.0	308.9	309.1	308.8	309.0
7.5°	308.7	308.2	308.3	308.3	308.2	308.4	308.2	308.2
10°	307.8	307.2	307.5	307.3	307.2	307.3	307.3	307.3
12.5°	307.0	306.7	306.8	306.6	306.6	306.8	306.7	306.8
15°	306.9	306.2	306.1	306.0	306.0	306.2	306.2	306.5
17.5°	306.7	305.9	305.8	305.6	305.7	306.0	306.1	306.0
20°	307.2	306.5	306.4	306.2	306.1	306.6	306.5	306.5
22.5°	309.6	308.8	308.7	308.0	307.8	308.0	307.8	307.8
25°	313.5	312.4	312.1	311.2	310.5	310.5	310.2	310.0
27.5°	320.4	318.9	318.5	317.7	316.8	317.0	316.4	316.3
30°	328.4	327.1	325.9	324.8	323.6	323.2	322.6	322.5
32.5°	339.0	337.4	336.0	334.6	333.0	332.5	331.4	330.9
35°	351.9	349.8	348.1	347.2	345.6	344.8	344.2	345.0
37.5°	369.9	367.4	366.6	365.5	364.5	363.2	363.5	363.2
40°	394.8	392.7	391.8	389.8	389.6	388.2	389.1	388.2
42.5°	425.8	421.6	421.0	419.5	419.0	418.2	418.6	418.0
45°	459.4	455.7	455.0	452.5	452.6	450.8	451.5	451.5
47.5°	497.2	493.3	490.2	488.4	487.6	486.6	487.1	487.0
50°	536.1	530.9	527.4	523.9	522.4	522.8	521.6	523.6
52.5°	578.0	570.2	565.3	561.9	559.0	559.6	559.8	560.4
55°	621.4	611.5	604.3	599.9	597.3	597.5	598.2	599.0
57.5°	665.0	652.6	642.9	636.4	634.6	635.4	635.4	635.4
60°	710.2	695.3	682.8	675.4	673.9	673.5	676.8	675.7
62.5°	758.8	740.9	727.9	718.5	716.3	717.8	720.8	720.2
65°	823.2	798.5	781.7	772.4	768.6	770.2	774.2	774.0
67.5°	906.2	871.7	849.5	837.6	834.8	836.7	838.9	841.0
70°	1030.4	981.0	949.4	923.5	912.4	910.2	912.5	912.6
71°	1074.1	1017.4	967.0	935.4	917.2	909.5	910.1	906.2
72.5°	1072.2	1002.4	943.5	910.4	885.1	878.9	876.0	871.4
75°	1000.0	937.1	886.0	849.9	825.5	818.2	812.9	812.6
77.5°	906.9	860.5	804.1	765.9	736.2	724.2	718.8	718.6
80°	729.1	659.5	618.3	595.3	559.5	549.2	538.2	534.1
82.5°	440.9	344.5	280.1	248.9	231.6	190.8	171.2	162.0
85°	102.7	72.9	50.3	33.0	23.8	18.9	14.6	12.8
87.5°	6.9	5.5	4.9	4.0	3.0	2.9	1.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)