

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: P148367

Luminaire Tested: **TLM-F01-LED-E1-5XQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148367
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-F01-LED-E1-5XQ-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

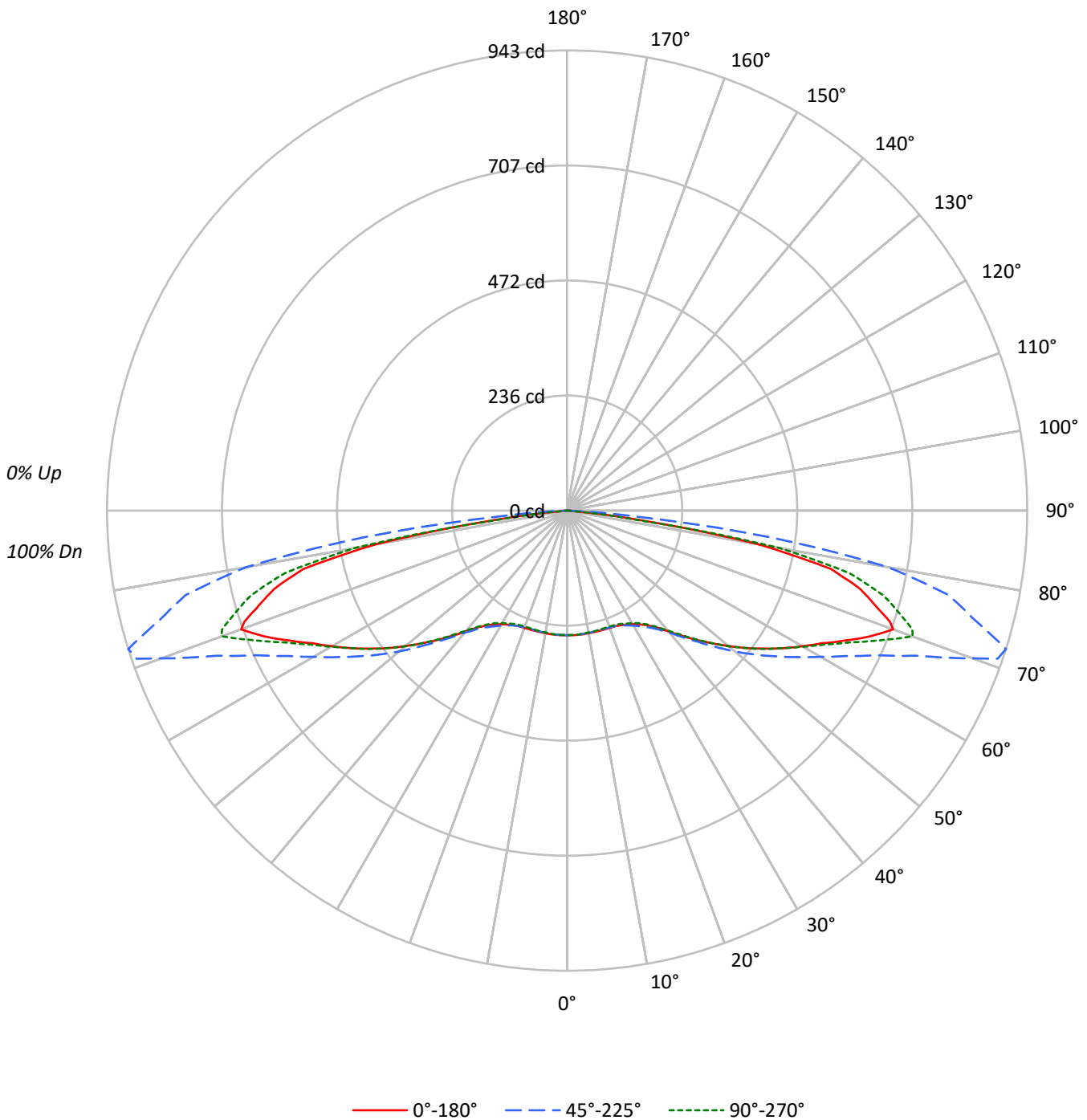
Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	16165	16165	16165
5°	16246	16220	16214
10°	16401	16344	16311
15°	16729	16630	16584
20°	17236	17162	17047
25°	18094	18150	17885
30°	19653	19901	19470
35°	22153	22578	22014
40°	26714	27020	26483
45°	33507	34089	33373
50°	42485	44228	42583
55°	54466	57425	54577
60°	70371	75905	70637
65°	94357	105040	95736
70°	131625	163985	139475
75°	152263	211245	164104
80°	144904	243317	160765
85°	11769	98656	7701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	0.9
10°-20°	72.0	2.7
20°-30°	120.5	4.5
30°-40°	183.7	6.8
40°-50°	293.3	10.9
50°-60°	451.0	16.7
60°-70°	656.7	24.4
70°-80°	739.8	27.5
80°-90°	152.7	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°	216.8	8.0
0°-40°	400.5	14.9
0°-60°	1144.9	42.5
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	255	255	255	255	255	
5°	256	256	255	255	255	24
15°	255	255	254	253	253	72
25°	259	259	260	257	256	121
35°	287	289	292	287	285	183
45°	374	374	381	375	373	292
55°	493	495	520	497	494	444
65°	630	632	701	641	639	628
75°	622	662	864	716	671	634
85°	16	43	136	34	11	101
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°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3
2.5°	255.6	255.8	255.7	255.6	255.7	255.6	255.5	255.4	254.9	255.2	255.6
5°	255.6	255.5	255.4	255.4	255.4	255.6	255.4	255.2	255.1	255.2	255.0
7.5°	255.6	255.2	255.1	255.0	255.1	255.2	255.0	254.7	254.9	254.7	254.4
10°	255.1	254.9	255.0	254.7	254.8	254.7	254.4	254.2	254.3	254.2	253.8
12.5°	255.2	254.9	254.8	254.7	254.6	254.6	254.2	253.8	253.9	253.8	253.4
15°	255.2	255.0	255.0	254.7	254.6	254.5	254.1	253.9	253.9	253.7	253.3
17.5°	255.4	255.2	255.2	254.9	254.8	254.7	254.2	254.0	254.2	253.8	253.5
20°	255.8	255.7	255.8	255.6	255.2	255.2	254.9	254.8	254.8	254.7	254.0
22.5°	256.6	256.6	256.8	256.7	256.6	256.7	256.4	256.4	256.5	256.5	255.9
25°	259.0	259.0	259.2	259.1	259.2	259.7	259.5	259.4	259.8	259.8	259.1
27.5°	263.6	263.4	263.6	263.8	264.0	264.7	264.6	264.8	265.4	265.2	264.7
30°	268.8	268.7	269.0	269.4	269.7	270.7	270.3	271.3	271.8	272.2	271.8
32.5°	276.5	276.4	277.1	277.4	278.0	279.0	279.1	280.0	280.6	281.3	280.8
35°	286.6	286.5	286.9	287.4	288.2	289.1	289.5	290.6	291.6	292.1	291.2
37.5°	302.1	301.4	302.3	302.5	303.2	303.4	304.4	305.8	306.8	306.7	306.1
40°	323.2	323.0	322.7	322.2	323.2	323.6	323.6	325.5	327.2	326.9	326.8
42.5°	347.7	347.1	346.7	346.6	347.2	347.4	349.6	351.0	352.2	352.5	352.2
45°	374.2	373.5	373.6	373.4	373.6	374.5	375.8	378.4	380.6	380.7	379.5
47.5°	402.5	400.5	402.0	399.9	401.2	401.9	405.1	408.9	412.9	413.6	412.5
50°	431.3	431.1	431.0	430.5	431.2	432.7	436.6	442.6	446.4	449.0	447.2
52.5°	462.8	461.8	461.2	460.5	461.1	464.2	469.6	474.8	481.7	484.6	482.3
55°	493.4	493.0	491.2	491.2	492.5	497.2	503.2	509.6	517.0	520.2	519.4
57.5°	524.9	522.9	522.3	521.4	524.1	528.6	535.8	547.4	555.1	558.8	556.6
60°	555.7	554.1	552.9	552.6	554.5	560.7	571.2	585.1	594.6	599.4	596.0
62.5°	588.7	587.7	586.3	584.7	588.6	596.6	609.6	625.0	639.0	644.9	639.8
65°	629.8	627.8	626.2	624.2	627.3	637.4	653.6	675.3	694.2	701.1	697.4
67.5°	673.2	671.2	671.4	670.1	675.8	689.6	710.7	740.1	765.4	777.2	770.3
70°	711.0	712.0	712.3	717.5	727.2	748.4	783.4	829.5	867.8	885.8	878.4
71°	699.8	702.2	705.8	711.1	727.9	753.0	800.8	856.6	902.3	932.8	922.6
72.5°	668.2	669.6	671.4	679.6	698.6	731.8	781.0	844.8	903.6	943.1	931.2
75°	622.4	623.8	624.4	630.2	647.4	676.4	721.4	778.0	829.9	863.5	860.2
77.5°	553.4	553.7	558.6	567.4	586.8	619.9	667.4	726.1	774.9	801.0	784.4
80°	397.4	394.8	399.8	411.2	435.2	473.2	521.7	588.8	642.9	667.3	641.7
82.5°	151.2	159.4	172.3	191.1	199.2	241.4	286.8	326.1	371.7	422.7	409.9
85°	16.2	18.3	22.9	28.4	35.9	49.7	68.7	93.7	115.6	135.8	120.6
87.5°	6.1	6.2	6.9	8.0	8.2	8.5	9.0	10.5	9.8	8.5	6.8
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°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3
2.5°	255.3	255.3	255.2	255.3	255.3	255.0	255.1	255.0
5°	255.2	255.0	255.0	255.1	255.0	255.2	255.0	255.1
7.5°	254.8	254.4	254.6	254.6	254.4	254.6	254.5	254.4
10°	254.2	253.6	253.8	253.7	253.6	253.7	253.7	253.7
12.5°	253.5	253.2	253.2	253.2	253.1	253.3	253.2	253.3
15°	253.3	252.8	252.7	252.6	252.6	252.8	252.8	253.0
17.5°	253.2	252.5	252.4	252.3	252.4	252.6	252.7	252.6
20°	253.6	253.1	253.0	252.8	252.7	253.1	253.0	253.0
22.5°	255.6	254.9	254.8	254.3	254.0	254.2	254.1	254.1
25°	258.8	257.9	257.7	256.8	256.3	256.3	256.1	256.0
27.5°	264.5	263.2	262.9	262.3	261.5	261.7	261.2	261.2
30°	271.2	270.0	269.0	268.1	267.2	266.8	266.4	266.3
32.5°	279.8	278.6	277.4	276.2	274.9	274.5	273.6	273.2
35°	290.5	288.8	287.4	286.6	285.3	284.7	284.1	284.8
37.5°	305.3	303.4	302.6	301.7	300.8	299.9	300.1	299.8
40°	326.0	324.2	323.4	321.8	321.6	320.5	321.2	320.4
42.5°	351.5	348.1	347.6	346.3	345.9	345.3	345.6	345.0
45°	379.2	376.2	375.6	373.5	373.6	372.2	372.7	372.7
47.5°	410.4	407.2	404.6	403.1	402.6	401.6	402.2	402.1
50°	442.6	438.3	435.4	432.5	431.2	431.6	430.6	432.3
52.5°	477.2	470.8	466.7	463.9	461.5	462.0	462.2	462.6
55°	513.0	504.8	498.8	495.2	493.0	493.2	493.9	494.4
57.5°	549.0	538.7	530.7	525.3	524.0	524.6	524.6	524.5
60°	586.3	574.0	563.7	557.6	556.3	556.0	558.7	557.8
62.5°	626.4	611.7	600.9	593.2	591.3	592.6	595.1	594.5
65°	679.6	659.2	645.3	637.6	634.6	635.8	639.1	639.0
67.5°	748.1	719.6	701.3	691.4	689.2	690.7	692.6	694.3
70°	850.6	809.8	783.8	762.4	753.2	751.4	753.2	753.4
71°	886.7	839.9	798.3	772.2	757.1	750.8	751.3	748.1
72.5°	885.2	827.6	778.9	751.6	730.7	725.6	723.1	719.3
75°	825.6	773.6	731.4	701.6	681.4	675.4	671.1	670.8
77.5°	748.7	710.3	663.8	632.3	607.8	597.8	593.4	593.2
80°	601.8	544.4	510.4	491.4	461.9	453.3	444.3	440.9
82.5°	364.0	284.4	231.2	205.5	191.2	157.5	141.3	133.7
85°	84.8	60.2	41.5	27.3	19.6	15.6	12.0	10.6
87.5°	5.7	4.5	4.0	3.2	2.5	2.4	1.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)