

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: P148360

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148360
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.4 lumens
Efficiency: N/A
Efficacy: 128.8 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

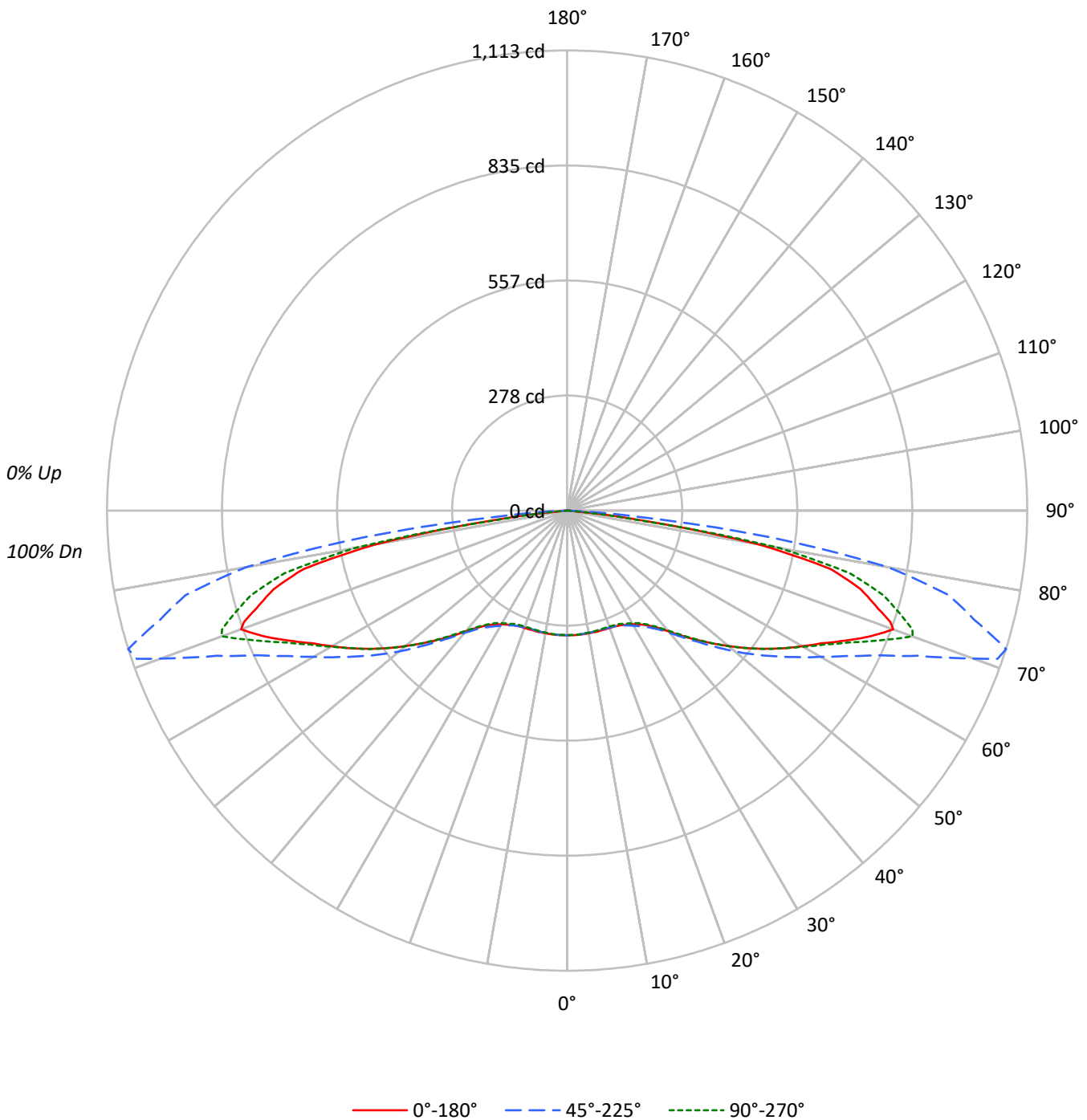
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19077	19077	19077
5°	19182	19150	19144
10°	19365	19288	19256
15°	19757	19632	19573
20°	20349	20268	20120
25°	21364	21420	21113
30°	23206	23498	22987
35°	26157	26652	25987
40°	31533	31896	31268
45°	39543	40241	39399
50°	50158	52207	50276
55°	64302	67802	64424
60°	83072	89606	83389
65°	111392	124007	113010
70°	155377	193606	164633
75°	179760	249385	193754
80°	171084	287255	189789
85°	13948	116528	9081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.9
10°-20°	85.0	2.7
20°-30°	142.3	4.5
30°-40°	216.9	6.8
40°-50°	346.3	10.9
50°-60°	532.4	16.7
60°-70°	775.2	24.4
70°-80°	873.3	27.5
80°-90°	180.3	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°	255.9	8.0
0°-40°	472.8	14.9
0°-60°	1351.5	42.5
0°-90°	3180.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	302	302	301	301	301	29
15°	301	300	300	298	299	85
25°	306	306	307	304	302	143
35°	338	341	345	339	336	216
45°	442	442	449	442	440	345
55°	582	584	614	587	584	524
65°	744	746	828	757	754	741
75°	735	781	1019	846	792	748
85°	19	51	160	41	12	119
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°	301.3	301.3	301.3	301.3	301.3	301.3	301.3	301.3	301.3	301.3	301.3
2.5°	301.8	302.0	301.9	301.8	301.8	301.8	301.6	301.5	301.0	301.2	301.7
5°	301.8	301.7	301.6	301.5	301.5	301.8	301.5	301.3	301.2	301.3	301.1
7.5°	301.6	301.4	301.2	301.1	301.2	301.2	301.0	300.6	300.9	300.6	300.3
10°	301.2	300.9	301.0	300.6	300.8	300.6	300.3	300.1	300.3	300.0	299.6
12.5°	301.4	300.9	300.8	300.6	300.6	300.5	300.1	299.7	299.8	299.6	299.2
15°	301.4	301.1	301.0	300.7	300.6	300.4	299.9	299.8	299.8	299.5	299.0
17.5°	301.5	301.3	301.3	300.9	300.8	300.7	300.1	299.8	300.0	299.6	299.2
20°	302.0	301.8	301.9	301.6	301.3	301.4	300.9	300.8	300.8	300.8	299.8
22.5°	303.0	303.0	303.2	303.1	303.0	303.1	302.8	302.8	302.8	302.8	302.1
25°	305.8	305.8	305.9	305.9	306.0	306.6	306.4	306.2	306.7	306.6	305.9
27.5°	311.2	311.0	311.2	311.3	311.8	312.5	312.3	312.6	313.2	313.1	312.4
30°	317.4	317.2	317.6	318.1	318.4	319.6	319.1	320.3	320.9	321.4	320.9
32.5°	326.4	326.3	327.1	327.4	328.2	329.3	329.5	330.5	331.2	332.1	331.5
35°	338.4	338.2	338.8	339.3	340.2	341.4	341.8	343.1	344.2	344.8	343.8
37.5°	356.6	355.8	356.8	357.2	357.9	358.2	359.4	361.0	362.2	362.0	361.3
40°	381.5	381.4	380.9	380.4	381.6	382.0	382.0	384.2	386.2	385.9	385.8
42.5°	410.5	409.8	409.3	409.3	409.9	410.1	412.6	414.3	415.8	416.1	415.8
45°	441.6	440.9	441.1	440.8	441.0	442.1	443.6	446.7	449.3	449.4	448.0
47.5°	475.2	472.8	474.6	472.1	473.7	474.5	478.2	482.8	487.4	488.3	487.0
50°	509.2	508.9	508.8	508.2	509.0	510.8	515.4	522.5	527.0	530.0	528.0
52.5°	546.4	545.1	544.5	543.7	544.4	548.0	554.4	560.6	568.6	572.1	569.3
55°	582.5	582.1	579.9	579.8	581.4	587.0	594.0	601.6	610.4	614.2	613.2
57.5°	619.7	617.2	616.6	615.6	618.8	624.0	632.6	646.2	655.3	659.7	657.2
60°	656.0	654.2	652.8	652.4	654.6	661.9	674.2	690.6	701.9	707.6	703.6
62.5°	695.0	693.8	692.2	690.2	694.8	704.3	719.6	737.8	754.3	761.3	755.2
65°	743.5	741.1	739.2	736.8	740.6	752.4	771.7	797.2	819.5	827.7	823.4
67.5°	794.7	792.4	792.6	791.1	797.8	814.2	839.0	873.8	903.6	917.5	909.3
70°	839.3	840.6	840.9	847.0	858.5	883.5	924.8	979.2	1024.5	1045.8	1037.0
71°	826.2	828.9	833.2	839.5	859.4	888.9	945.4	1011.2	1065.3	1101.3	1089.2
72.5°	788.8	790.5	792.7	802.3	824.8	863.9	922.0	997.3	1066.8	1113.3	1099.3
75°	734.8	736.4	737.2	743.9	764.3	798.5	851.7	918.5	979.7	1019.4	1015.5
77.5°	653.4	653.6	659.4	669.8	692.8	731.8	787.8	857.2	914.8	945.6	926.0
80°	469.2	466.0	472.0	485.4	513.8	558.6	615.9	695.1	759.0	787.8	757.5
82.5°	178.5	188.2	203.4	225.6	235.2	285.0	338.5	385.0	438.8	499.0	484.0
85°	19.2	21.6	27.1	33.6	42.4	58.7	81.1	110.7	136.4	160.4	142.3
87.5°	7.2	7.3	8.2	9.4	9.6	10.0	10.7	12.4	11.6	10.0	8.1
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°	301.3	301.3	301.3	301.3	301.3	301.3	301.3	301.3
2.5°	301.3	301.4	301.3	301.4	301.4	301.1	301.2	301.0
5°	301.3	301.0	301.1	301.2	301.1	301.2	301.0	301.2
7.5°	300.8	300.3	300.5	300.5	300.3	300.6	300.4	300.4
10°	300.0	299.4	299.7	299.5	299.4	299.5	299.5	299.5
12.5°	299.2	298.8	298.9	298.8	298.8	299.0	298.9	299.0
15°	299.1	298.4	298.3	298.2	298.2	298.4	298.4	298.6
17.5°	299.0	298.1	298.0	297.8	297.9	298.2	298.3	298.2
20°	299.4	298.8	298.6	298.4	298.3	298.8	298.7	298.6
22.5°	301.8	300.9	300.8	300.2	299.9	300.2	300.0	300.0
25°	305.5	304.5	304.2	303.2	302.6	302.6	302.3	302.2
27.5°	312.2	310.8	310.4	309.7	308.8	308.9	308.4	308.4
30°	320.1	318.8	317.6	316.5	315.4	315.0	314.4	314.4
32.5°	330.3	328.8	327.4	326.1	324.6	324.0	323.0	322.5
35°	342.9	340.9	339.2	338.4	336.8	336.1	335.4	336.2
37.5°	360.5	358.1	357.3	356.2	355.2	354.0	354.2	354.0
40°	384.8	382.7	381.8	379.9	379.7	378.3	379.2	378.3
42.5°	414.9	410.9	410.4	408.8	408.3	407.6	407.9	407.3
45°	447.6	444.1	443.4	441.0	441.1	439.4	440.0	440.0
47.5°	484.5	480.8	477.7	475.9	475.2	474.2	474.8	474.6
50°	522.5	517.4	514.0	510.6	509.1	509.5	508.3	510.4
52.5°	563.3	555.8	550.9	547.7	544.8	545.4	545.6	546.2
55°	605.6	595.9	588.9	584.7	582.1	582.2	583.0	583.6
57.5°	648.1	636.0	626.5	620.2	618.5	619.2	619.2	619.2
60°	692.2	677.7	665.4	658.2	656.8	656.3	659.6	658.5
62.5°	739.5	722.1	709.4	700.2	698.1	699.6	702.5	701.8
65°	802.2	778.2	761.8	752.8	749.1	750.6	754.5	754.3
67.5°	883.1	849.5	827.9	816.2	813.6	815.4	817.6	819.6
70°	1004.2	956.1	925.2	900.0	889.2	887.1	889.2	889.3
71°	1046.8	991.5	942.4	911.6	893.8	886.3	886.9	883.2
72.5°	1045.0	976.9	919.5	887.2	862.6	856.6	853.6	849.2
75°	974.6	913.2	863.4	828.3	804.5	797.4	792.2	792.0
77.5°	883.9	838.6	783.7	746.4	717.5	705.8	700.5	700.3
80°	710.5	642.8	602.6	580.2	545.2	535.2	524.5	520.5
82.5°	429.7	335.8	273.0	242.6	225.8	185.9	166.8	157.8
85°	100.1	71.1	49.0	32.2	23.2	18.4	14.2	12.5
87.5°	6.8	5.3	4.7	3.8	2.9	2.8	1.8	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)