

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: P148358

Luminaire Tested: **TLM-E01-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148358
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

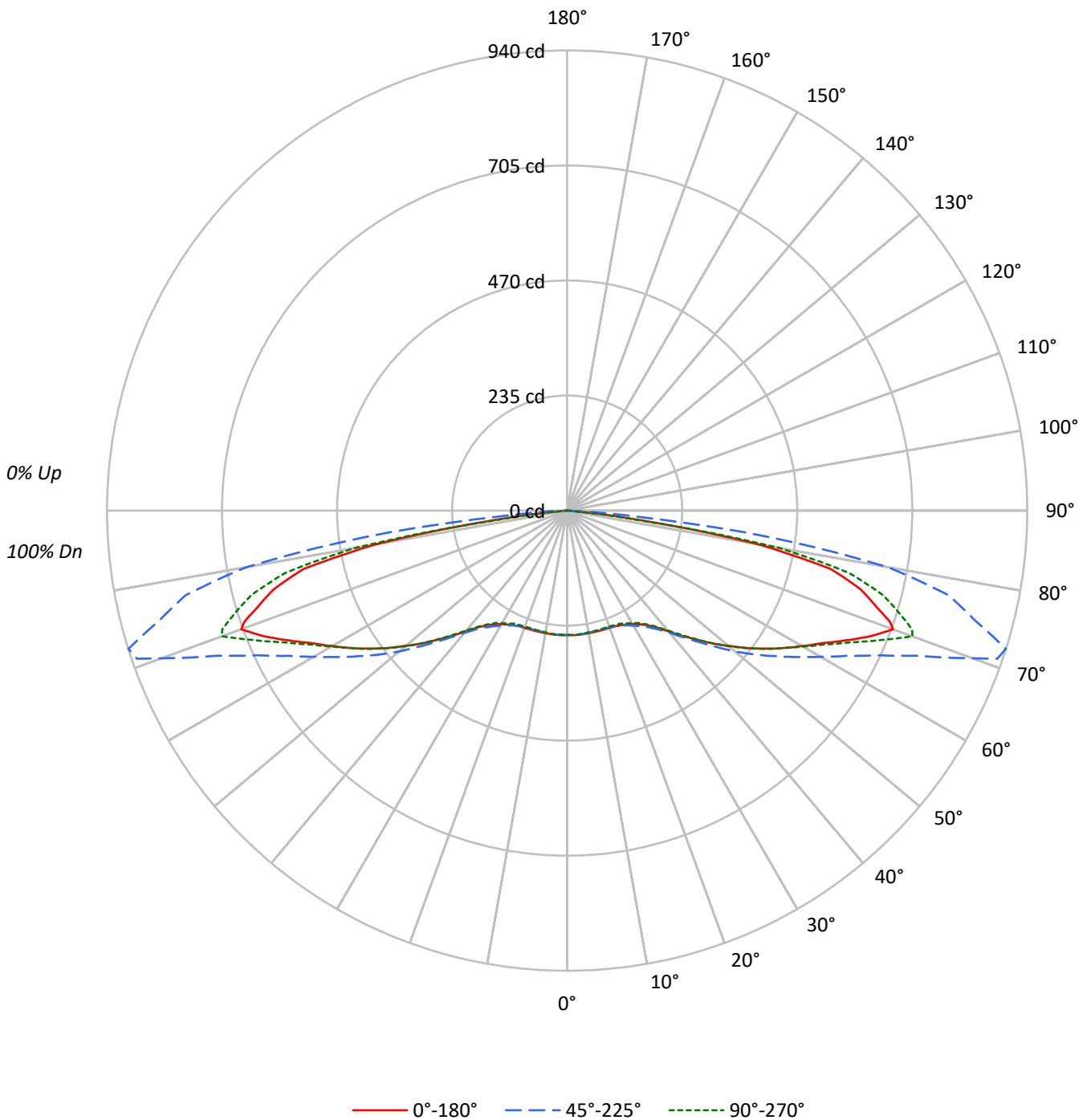
Lumens per Lamp: N/A
Luminaire Lumens: 2684.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

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°	16102	16102	16102
5°	16195	16163	16157
10°	16344	16279	16254
15°	16676	16571	16525
20°	17175	17101	16987
25°	18039	18080	17815
30°	19579	19835	19397
35°	22068	22493	21929
40°	26615	26921	26392
45°	33382	33964	33257
50°	42327	44061	42436
55°	54268	57215	54378
60°	70105	75626	70383
65°	94013	104665	95376
70°	131144	163393	138956
75°	151725	210487	163516
80°	144393	242442	160181
85°	11769	98293	7701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	0.9
10°-20°	71.7	2.7
20°-30°	120.1	4.5
30°-40°	183.0	6.8
40°-50°	292.3	10.9
50°-60°	449.4	16.7
60°-70°	654.3	24.4
70°-80°	737.1	27.5
80°-90°	152.2	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°	216.0	8.0
0°-40°	399.0	14.9
0°-60°	1140.7	42.5
0°-90°	2684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	255	255	254	254	254	24
15°	254	254	253	252	252	72
25°	258	259	259	256	255	120
35°	286	288	291	286	284	182
45°	373	373	379	373	371	291
55°	492	493	518	495	493	442
65°	628	630	699	639	637	625
75°	620	660	860	714	668	632
85°	16	43	135	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°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
2.5°	254.8	254.9	254.8	254.7	254.8	254.7	254.5	254.5	254.0	254.2	254.7
5°	254.8	254.6	254.5	254.4	254.5	254.7	254.4	254.3	254.2	254.3	254.1
7.5°	254.6	254.3	254.2	254.1	254.2	254.3	254.0	253.8	254.0	253.8	253.5
10°	254.2	254.0	254.0	253.8	253.8	253.8	253.5	253.2	253.4	253.2	252.9
12.5°	254.4	254.0	253.9	253.8	253.7	253.6	253.3	252.9	253.0	252.9	252.5
15°	254.4	254.1	254.0	253.8	253.7	253.6	253.1	253.0	253.0	252.8	252.4
17.5°	254.5	254.3	254.4	254.0	253.8	253.8	253.3	253.1	253.3	252.8	252.6
20°	254.9	254.8	254.8	254.6	254.4	254.3	254.0	253.8	253.9	253.8	253.0
22.5°	255.8	255.8	255.9	255.8	255.7	255.8	255.5	255.5	255.6	255.6	255.0
25°	258.2	258.0	258.2	258.2	258.3	258.8	258.5	258.5	258.8	258.8	258.2
27.5°	262.6	262.5	262.6	262.8	263.1	263.8	263.6	263.8	264.4	264.2	263.7
30°	267.8	267.7	268.0	268.5	268.7	269.7	269.3	270.3	270.8	271.3	270.8
32.5°	275.4	275.4	276.0	276.4	277.0	278.0	278.1	279.0	279.6	280.3	279.8
35°	285.5	285.4	285.9	286.4	287.2	288.1	288.4	289.6	290.6	291.0	290.1
37.5°	301.0	300.2	301.2	301.5	302.1	302.3	303.3	304.7	305.8	305.6	305.0
40°	322.0	321.8	321.5	321.0	322.0	322.4	322.4	324.3	326.0	325.7	325.6
42.5°	346.4	345.8	345.4	345.4	346.0	346.1	348.3	349.7	350.9	351.2	350.9
45°	372.8	372.1	372.3	372.0	372.2	373.1	374.4	377.0	379.2	379.3	378.1
47.5°	401.0	399.0	400.6	398.4	399.8	400.5	403.6	407.5	411.4	412.1	411.0
50°	429.7	429.5	429.4	429.0	429.6	431.1	435.0	441.0	444.8	447.3	445.6
52.5°	461.1	460.0	459.6	458.8	459.5	462.5	467.9	473.1	479.9	482.8	480.5
55°	491.6	491.2	489.4	489.4	490.7	495.4	501.4	507.7	515.1	518.3	517.5
57.5°	523.0	521.0	520.4	519.6	522.2	526.6	533.9	545.4	553.1	556.8	554.7
60°	553.6	552.1	550.9	550.6	552.4	558.6	569.0	582.9	592.4	597.2	593.8
62.5°	586.6	585.6	584.2	582.6	586.4	594.4	607.3	622.6	636.6	642.6	637.4
65°	627.5	625.4	623.9	621.9	625.1	635.0	651.3	672.8	691.7	698.6	694.9
67.5°	670.7	668.8	668.9	667.7	673.3	687.2	708.1	737.4	762.6	774.4	767.4
70°	708.4	709.4	709.8	714.9	724.6	745.6	780.6	826.5	864.7	882.6	875.2
71°	697.3	699.6	703.2	708.6	725.3	750.2	797.8	853.5	899.0	929.4	919.2
72.5°	665.8	667.2	669.0	677.2	696.1	729.1	778.2	841.8	900.3	939.6	927.8
75°	620.2	621.6	622.2	627.8	645.1	673.9	718.8	775.2	826.9	860.4	857.1
77.5°	551.4	551.6	556.6	565.3	584.7	617.6	665.0	723.4	772.0	798.0	781.5
80°	396.0	393.3	398.3	409.7	433.6	471.4	519.8	586.6	640.6	664.9	639.3
82.5°	150.6	158.8	171.7	190.4	198.5	240.6	285.7	324.9	370.4	421.2	408.4
85°	16.2	18.2	22.8	28.4	35.8	49.5	68.4	93.4	115.2	135.3	120.1
87.5°	6.0	6.2	6.9	8.0	8.1	8.4	9.0	10.5	9.8	8.4	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°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3
2.5°	254.3	254.4	254.3	254.4	254.4	254.1	254.2	254.0
5°	254.3	254.0	254.1	254.2	254.1	254.2	254.0	254.2
7.5°	253.9	253.5	253.6	253.7	253.5	253.7	253.6	253.5
10°	253.2	252.6	252.9	252.8	252.7	252.8	252.8	252.8
12.5°	252.6	252.2	252.3	252.2	252.2	252.4	252.3	252.4
15°	252.4	251.8	251.8	251.6	251.7	251.8	251.9	252.1
17.5°	252.3	251.6	251.5	251.4	251.4	251.7	251.8	251.6
20°	252.7	252.2	252.0	251.8	251.8	252.2	252.0	252.1
22.5°	254.7	254.0	253.9	253.3	253.1	253.3	253.2	253.2
25°	257.8	257.0	256.7	256.0	255.4	255.4	255.2	255.0
27.5°	263.6	262.3	262.0	261.4	260.6	260.7	260.3	260.2
30°	270.2	269.0	268.0	267.2	266.2	265.8	265.4	265.3
32.5°	278.8	277.5	276.3	275.2	274.0	273.4	272.6	272.2
35°	289.4	287.7	286.3	285.6	284.3	283.6	283.1	283.7
37.5°	304.2	302.2	301.5	300.6	299.8	298.8	299.0	298.8
40°	324.8	323.0	322.2	320.6	320.4	319.3	320.0	319.3
42.5°	350.2	346.8	346.3	345.0	344.6	344.0	344.3	343.8
45°	377.8	374.8	374.2	372.2	372.3	370.8	371.3	371.4
47.5°	408.9	405.8	403.2	401.6	401.1	400.2	400.7	400.7
50°	441.0	436.7	433.8	430.9	429.7	430.0	429.0	430.8
52.5°	475.4	469.0	465.0	462.2	459.8	460.3	460.5	461.0
55°	511.1	503.0	497.0	493.5	491.3	491.4	492.0	492.6
57.5°	547.0	536.8	528.8	523.4	522.0	522.7	522.6	522.6
60°	584.2	572.0	561.6	555.6	554.3	554.0	556.7	555.8
62.5°	624.1	609.4	598.7	591.0	589.2	590.4	592.9	592.4
65°	677.1	656.8	643.0	635.3	632.2	633.5	636.8	636.6
67.5°	745.4	716.9	698.8	688.9	686.7	688.2	690.1	691.8
70°	847.5	806.9	780.9	759.6	750.4	748.7	750.5	750.6
71°	883.4	836.8	795.4	769.4	754.4	748.0	748.5	745.4
72.5°	882.0	824.5	776.0	748.8	728.0	723.0	720.5	716.7
75°	822.5	770.8	728.7	699.0	679.0	673.0	668.7	668.4
77.5°	745.9	707.8	661.4	630.0	605.6	595.6	591.2	591.1
80°	599.7	542.5	508.6	489.6	460.2	451.7	442.7	439.3
82.5°	362.6	283.4	230.4	204.8	190.6	156.9	140.8	133.2
85°	84.4	60.0	41.4	27.2	19.6	15.6	12.0	10.6
87.5°	5.7	4.5	4.0	3.2	2.4	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)