

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: P147843

Luminaire Tested: **TLM-F01-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P147843
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-F01-LED-E1-5WQ-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

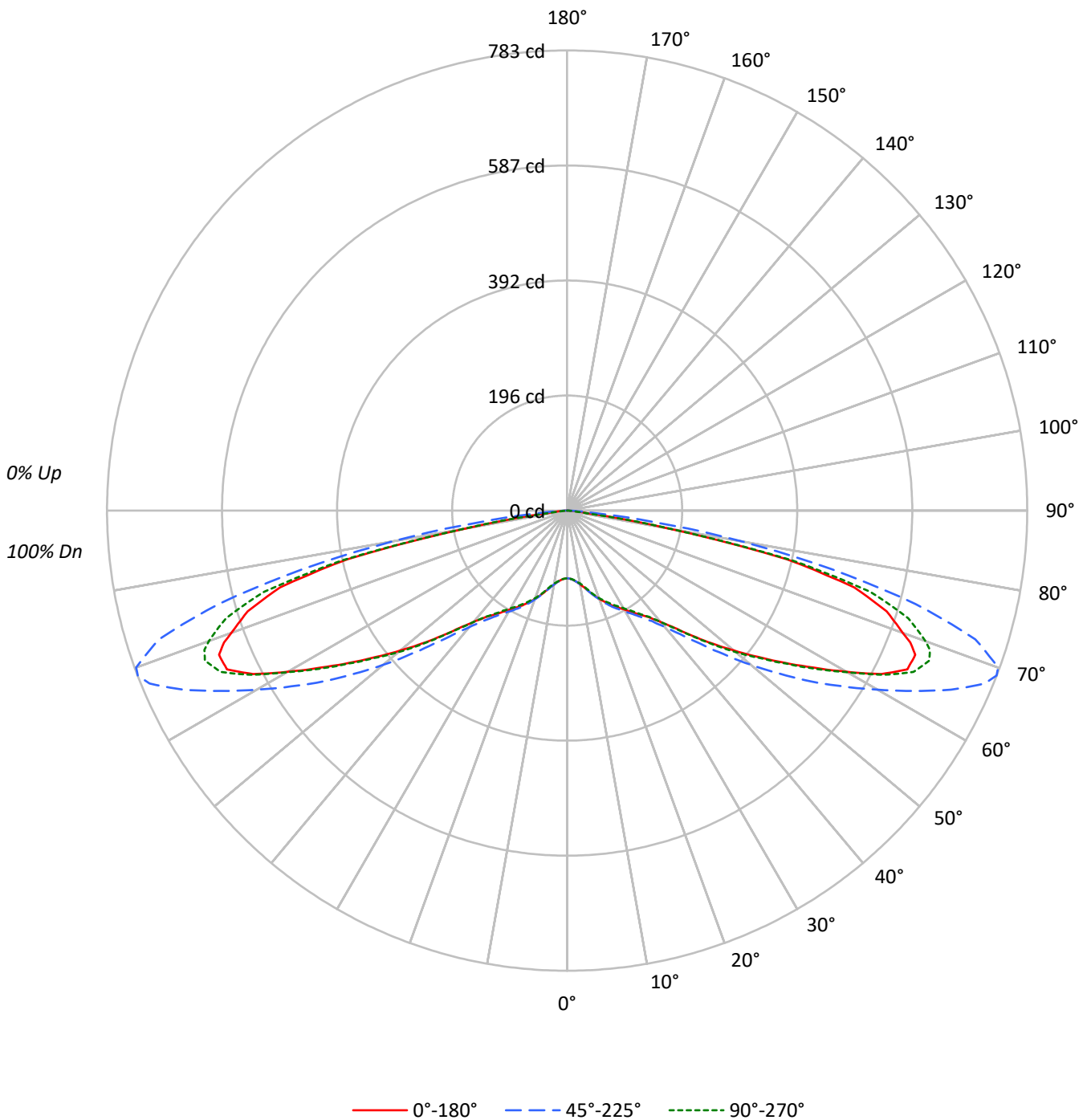
Lumens per Lamp: N/A
Luminaire Lumens: 2218.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 3.9 / 3.92 / 3.98
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7294	7294	7294
5°	7525	7525	7500
10°	8197	8185	8107
15°	9302	9348	9210
20°	10767	10862	10673
25°	12394	12589	12219
30°	14198	14520	14023
35°	16696	17144	16549
40°	20407	21350	20407
45°	26953	28699	27060
50°	36446	40219	36949
55°	49819	55968	50095
60°	69408	77171	69674
65°	95721	108036	97399
70°	112483	144510	120129
75°	123738	150233	130613
80°	62570	109498	64430
85°	8064	29713	6248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.5
10°-20°	40.8	1.8
20°-30°	82.7	3.7
30°-40°	138.7	6.3
40°-50°	244.6	11.0
50°-60°	431.3	19.4
60°-70°	658.5	29.7
70°-80°	550.3	24.8
80°-90°	59.8	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°	135.1	6.1
0°-40°	273.8	12.3
0°-60°	949.7	42.8
0°-90°	2218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	115	115	115	115	115	
5°	118	119	118	118	118	12
15°	142	143	143	141	140	41
25°	177	178	180	177	175	82
35°	216	217	222	217	214	137
45°	301	308	320	311	302	236
55°	451	473	507	476	454	409
65°	639	673	721	679	650	612
75°	506	534	614	568	534	487
85°	11	19	41	16	9	37
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°	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2
2.5°	116.1	116.4	116.1	116.1	116.1	116.1	116.1	115.9	115.9	115.9	116.1
5°	118.4	118.7	118.4	118.7	118.7	118.7	118.7	118.4	118.4	118.4	118.4
7.5°	122.2	122.2	122.2	122.4	122.2	122.2	122.4	122.2	122.2	122.2	122.2
10°	127.5	127.3	127.3	127.3	127.3	127.3	127.5	127.5	127.5	127.3	127.3
12.5°	134.0	133.8	134.0	134.0	134.2	134.2	134.2	134.2	134.2	134.2	134.0
15°	141.9	141.9	141.9	142.1	142.6	142.6	142.4	142.6	142.6	142.6	142.6
17.5°	150.7	151.2	150.7	151.0	151.2	151.0	151.4	151.7	151.9	151.7	151.0
20°	159.8	160.0	160.0	160.0	160.0	160.5	160.7	160.7	161.4	161.2	160.9
22.5°	168.4	168.8	168.8	169.1	169.1	169.8	169.8	169.8	170.2	170.7	170.2
25°	177.4	177.2	177.2	177.7	177.9	178.8	178.8	179.3	180.0	180.2	179.8
27.5°	185.6	185.3	185.3	186.0	186.3	187.4	187.4	188.4	188.8	189.0	188.6
30°	194.2	194.2	193.9	194.6	195.3	196.2	196.7	197.6	198.3	198.6	198.1
32.5°	204.4	203.9	204.1	204.6	205.1	206.0	206.7	207.9	208.8	209.0	208.6
35°	216.0	215.3	215.5	216.0	216.7	218.1	219.2	219.9	221.3	221.8	220.9
37.5°	228.8	229.0	228.8	229.9	231.1	232.7	234.1	235.0	236.4	237.1	236.4
40°	246.9	246.2	246.9	248.0	249.9	252.0	254.8	255.5	256.9	258.3	256.6
42.5°	270.3	269.9	271.5	272.4	274.5	276.8	280.3	282.2	284.3	285.2	283.8
45°	301.0	301.0	302.8	303.1	306.3	309.4	314.2	316.6	320.5	320.5	320.5
47.5°	334.9	336.3	337.5	339.8	342.1	347.7	352.5	357.7	361.4	361.8	361.1
50°	370.0	371.4	374.8	378.1	383.2	390.2	395.5	402.2	405.5	408.3	407.4
52.5°	408.8	409.0	413.2	417.3	424.8	432.4	441.0	448.0	453.8	456.4	454.3
55°	451.3	451.7	455.4	459.8	468.2	477.0	487.7	494.9	502.3	507.0	503.5
57.5°	497.2	497.5	501.2	506.5	516.5	525.3	535.6	545.8	552.7	556.9	554.6
60°	548.1	549.3	552.0	558.8	568.3	577.6	587.8	596.9	605.0	609.4	607.1
62.5°	602.4	603.6	607.6	612.9	621.3	631.5	641.2	652.8	659.6	664.5	661.0
65°	638.9	641.0	647.3	654.5	666.8	680.0	691.4	707.2	715.3	721.1	717.9
67.5°	641.2	642.4	650.1	661.0	677.5	697.4	720.7	745.3	761.3	769.0	763.4
69°	625.4	627.1	634.5	646.8	665.2	688.4	716.0	746.7	771.3	782.7	777.3
70°	607.6	611.0	619.2	632.6	650.5	674.9	703.5	736.2	765.0	780.6	776.6
72.5°	569.9	570.9	576.2	586.9	600.6	620.8	647.7	678.6	706.0	728.3	731.6
75°	505.8	508.8	512.8	520.0	527.0	541.6	559.7	580.8	596.9	614.1	614.8
77.5°	382.3	391.3	394.4	396.0	399.0	410.6	426.4	444.7	458.0	460.8	460.3
80°	171.6	183.7	186.5	199.7	207.9	227.1	251.3	279.4	298.2	300.3	295.2
82.5°	33.7	36.0	42.0	52.5	71.5	82.9	98.7	118.4	136.6	147.0	140.7
85°	11.1	11.8	13.7	15.1	17.4	19.7	23.9	29.7	36.9	40.9	36.5
87.5°	4.4	4.4	5.1	5.6	6.0	6.0	6.0	5.6	5.3	4.4	3.9
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°	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2
2.5°	115.9	115.9	115.9	115.9	115.9	115.9	115.9	115.9
5°	118.4	118.2	118.2	118.0	118.0	118.0	118.0	118.0
7.5°	121.9	121.7	121.5	121.7	121.5	121.5	121.5	121.5
10°	127.3	126.8	126.6	126.3	126.3	126.3	126.1	126.1
12.5°	133.5	133.5	133.3	133.1	132.6	132.8	132.6	132.1
15°	142.1	141.7	141.4	141.2	140.7	140.7	140.7	140.5
17.5°	150.7	150.3	150.3	149.6	149.3	149.3	149.3	149.6
20°	160.2	159.6	159.1	158.6	158.2	158.4	157.9	158.4
22.5°	169.8	168.8	168.4	167.7	167.0	167.0	166.8	166.3
25°	179.1	177.9	177.4	176.7	175.8	175.8	175.3	174.9
27.5°	187.9	186.7	186.3	184.9	183.9	183.7	183.2	183.0
30°	197.6	196.2	195.6	194.2	192.8	192.5	191.8	191.8
32.5°	207.9	206.5	206.0	203.9	202.8	202.8	202.3	201.8
35°	220.6	218.5	218.1	216.0	214.4	214.4	213.9	214.1
37.5°	235.7	234.1	232.5	230.9	229.0	228.8	228.3	227.8
40°	255.9	254.1	252.2	249.9	248.3	247.8	247.1	246.9
42.5°	282.9	281.0	277.3	275.4	273.8	272.4	272.2	272.0
45°	317.2	314.9	312.4	308.9	306.8	303.8	303.3	302.2
47.5°	358.6	354.2	349.8	346.7	343.5	340.0	339.3	337.5
50°	402.5	399.0	391.6	386.7	381.6	378.1	375.8	375.1
52.5°	449.6	443.1	435.7	429.2	421.8	417.1	412.9	411.8
55°	498.9	489.6	480.3	472.6	465.2	459.6	455.7	453.8
57.5°	548.1	537.9	527.7	519.3	513.0	505.8	501.9	501.0
60°	599.4	589.7	579.2	570.9	563.2	556.9	554.6	550.2
62.5°	653.8	643.6	633.8	625.7	615.9	611.5	607.6	605.0
65°	707.2	695.3	683.0	674.4	664.7	658.4	653.5	650.1
67.5°	748.5	730.6	714.2	699.8	686.5	676.8	670.5	667.2
69°	760.1	737.8	716.7	697.9	682.3	671.4	664.5	661.2
70°	758.7	734.1	710.9	690.2	673.3	661.7	654.9	648.9
72.5°	715.8	693.3	667.5	644.9	629.6	618.5	611.7	608.5
75°	610.8	595.7	577.1	559.7	548.6	542.1	533.7	533.9
77.5°	444.7	445.2	432.7	414.8	402.2	399.9	396.2	392.5
80°	275.9	253.8	239.4	220.2	206.0	193.7	188.4	176.7
82.5°	127.3	99.4	77.1	58.3	44.8	35.1	30.7	25.1
85°	28.3	21.6	17.9	14.4	12.3	11.4	9.3	8.6
87.5°	3.9	3.5	3.3	3.0	2.6	1.9	1.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)