

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P236239

Luminaire Tested: **4SWLED-40SL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-40SL-LC-UNV-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, CLEAR LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

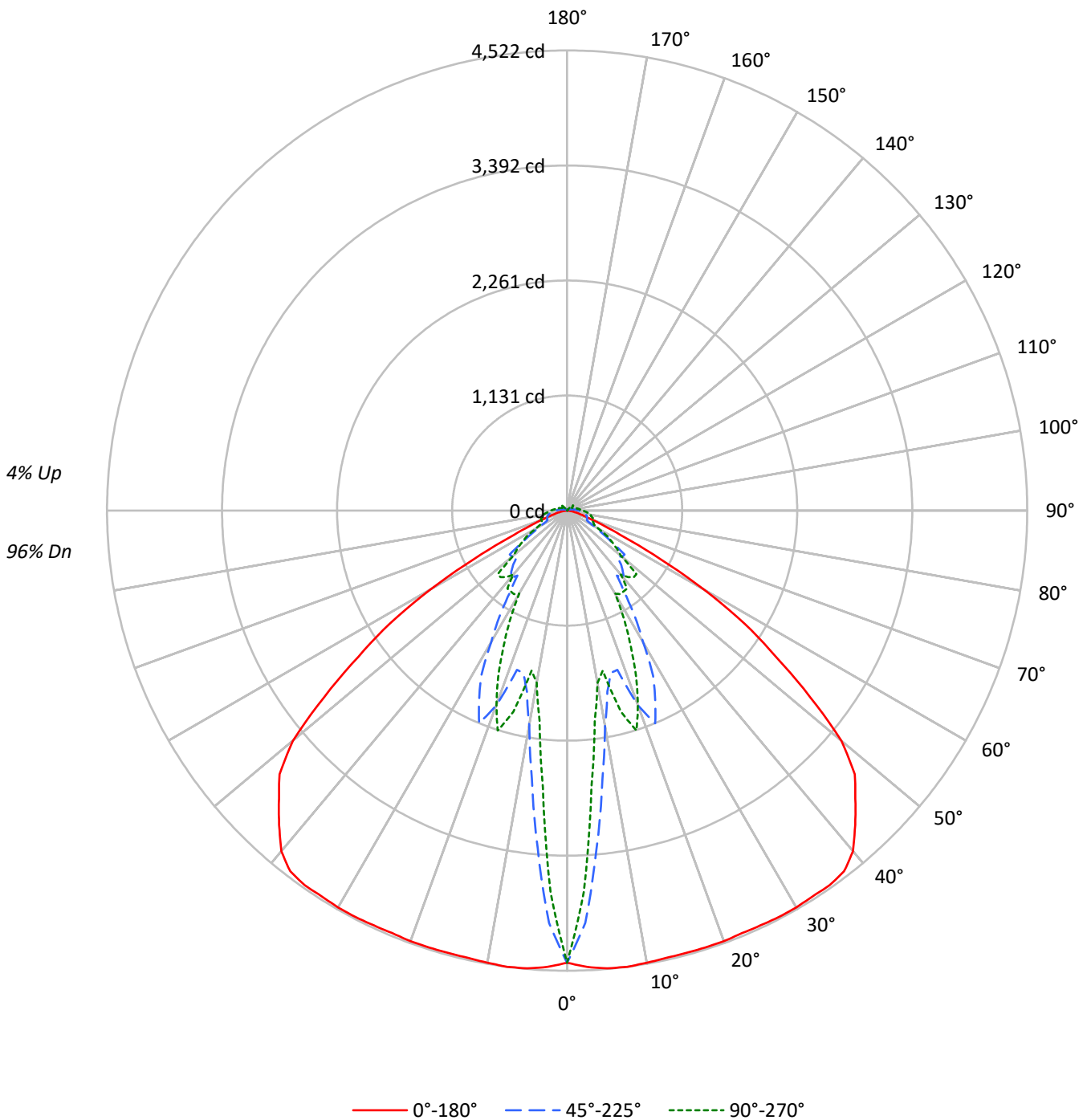
Lumens per Lamp: N/A
Luminaire Lumens: 5430.1 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.24 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 37.9
Input Voltage (V): 120
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

TEST NUMBER: P236239

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L840-CD1-U

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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	82	75	69	78	72	68	75	70	66	72	68	65	72	68	65	62	
4	86	75	67	61	83	73	66	61	71	64	59	68	63	58	65	61	57	65	61	57	55	
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	60	55	51	49	
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	45	55	50	45	44	
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	51	45	41	39	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	47	41	37	36	
9	61	48	41	35	59	47	40	35	46	39	35	45	39	34	44	38	34	44	38	34	32	
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	41	35	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31888	31888	31888
5°	32425	23371	19010
10°	32665	14848	11714
15°	33113	11364	13765
20°	33934	14041	13586
25°	35016	14207	9932
30°	36549	10540	6374
35°	38394	7069	6671
40°	39718	6484	5798
45°	39221	5835	6765
50°	37646	5793	5241
55°	29774	4577	4327
60°	20990	2784	3044
65°	9796	2209	2676
70°	4920	2390	2708
75°	3002	2586	2873
80°	1952	2688	3042
85°	988	2783	2949



TEST NUMBER: P236239

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	5.6
10°-20°	665.4	12.3
20°-30°	950.0	17.5
30°-40°	1014.5	18.7
40°-50°	943.6	17.4
50°-60°	693.8	12.8
60°-70°	308.6	5.7
70°-80°	203.3	3.7
80°-90°	140.8	2.6
90°-100°	83.1	1.5
100°-110°	48.1	0.9
110°-120°	29.3	0.5
120°-130°	21.1	0.4
130°-140°	17.8	0.3
140°-150°	5.2	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1919.1	35.3
0°-40°	2933.7	54.0
0°-60°	4571.1	84.2
0°-90°	5223.9	96.2
90°-120°	160.5	3.0
90°-150°	204.5	3.8
90°-180°	206.0	3.8
0°-180°	5430.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4444	4444	4444	4444	4444	
5°	4516	4028	3330	2897	2729	431
15°	4501	2440	1653	1826	2046	1276
25°	4498	1573	2046	1610	1482	2083
35°	4495	1895	977	992	969	2809
45°	4006	814	748	831	926	3084
55°	2504	485	523	529	538	2254
65°	622	188	214	271	289	723
75°	123	121	198	262	254	142
85°	17	71	150	188	195	23
90°	0	53	116	148	157	1
95°	0	38	85	111	129	0
105°	0	21	48	66	89	0
115°	1	12	30	45	58	1
125°	1	5	18	36	60	1
135°	1	2	16	49	60	1
145°	2	2	7	13	13	1
155°	2	2	3	5	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236239

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4443.7	4443.7	4443.7	4443.7	4443.7
2.5°	4488.7	4293.7	4055.7	3845.7	3755.7
5°	4515.7	4027.7	3329.8	2896.8	2728.8
7.5°	4521.7	3654.7	2654.8	2177.8	2078.9
10°	4511.7	3216.8	2145.8	1770.9	1717.9
12.5°	4501.7	2809.8	1821.9	1635.9	1610.9
15°	4500.7	2439.8	1652.9	1825.9	2045.9
17.5°	4502.7	2081.9	1640.9	2271.8	2266.8
20°	4502.7	1818.9	2039.9	2168.8	2030.9
22.5°	4493.7	1632.9	2261.8	1923.9	1771.9
25°	4497.7	1572.9	2045.9	1609.9	1481.9
27.5°	4502.7	1653.9	1829.9	1346.9	1220.9
30°	4503.7	1882.9	1492.9	1089.9	941.9
32.5°	4492.7	2000.9	1241.9	867.9	972.9
35°	4494.7	1894.9	976.9	991.9	968.9
37.5°	4469.7	1652.9	803.9	920.9	965.9
40°	4369.7	1331.9	866.9	863.9	820.9
42.5°	4189.7	1033.9	810.9	786.9	886.9
45°	4005.7	813.9	747.9	830.9	925.9
47.5°	3833.7	656.0	665.0	911.9	923.9
50°	3518.7	616.0	704.9	771.9	687.0
52.5°	3009.8	561.0	710.9	604.0	615.0
55°	2503.8	485.0	523.0	529.0	538.0
57.5°	2070.9	459.0	395.0	478.0	465.0
60°	1554.9	400.0	295.0	376.0	355.0
62.5°	1027.9	252.0	227.0	291.0	294.0
65°	622.0	188.0	214.0	271.0	289.0
67.5°	392.0	166.0	211.0	274.0	270.0
70°	258.0	150.0	208.0	274.0	267.0
72.5°	174.0	136.0	204.0	271.0	272.0
75°	123.0	121.0	198.0	262.0	254.0
77.5°	86.0	108.0	190.0	245.0	238.0
80°	57.0	95.0	176.0	227.0	236.0
82.5°	34.0	82.0	164.0	208.0	217.0
85°	17.0	71.0	150.0	188.0	195.0
87.5°	7.0	62.0	133.0	167.0	173.0
90°	0.0	53.0	116.0	148.0	157.0
92.5°	0.0	45.0	100.0	129.0	143.0
95°	0.0	38.0	85.0	111.0	129.0
97.5°	0.0	33.0	73.0	97.0	117.0
100°	0.0	28.0	63.0	84.0	107.0
102.5°	0.0	25.0	54.0	74.0	98.0
105°	0.0	21.0	48.0	66.0	89.0
107.5°	0.0	18.0	42.0	59.0	80.0
110°	0.0	16.0	37.0	54.0	72.0



TEST NUMBER: P236239

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	14.0	34.0	49.0	64.0
115°	1.0	12.0	30.0	45.0	58.0
117.5°	1.0	10.0	27.0	41.0	54.0
120°	1.0	8.0	24.0	38.0	53.0
122.5°	1.0	6.0	21.0	36.0	55.0
125°	1.0	5.0	18.0	36.0	60.0
127.5°	1.0	4.0	15.0	40.0	69.0
130°	1.0	3.0	15.0	48.0	78.0
132.5°	1.0	2.0	15.0	53.0	75.0
135°	1.0	2.0	16.0	49.0	60.0
137.5°	1.0	2.0	16.0	38.0	43.0
140°	1.0	2.0	13.0	27.0	30.0
142.5°	1.0	2.0	9.0	19.0	20.0
145°	2.0	2.0	7.0	13.0	13.0
147.5°	2.0	2.0	5.0	9.0	9.0
150°	2.0	2.0	4.0	7.0	7.0
152.5°	2.0	2.0	3.0	6.0	5.0
155°	2.0	2.0	3.0	5.0	4.0
157.5°	2.0	2.0	2.0	4.0	3.0
160°	2.0	3.0	3.0	4.0	3.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)