

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: P236257

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-40SL-LN-UNV-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, NARROW LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

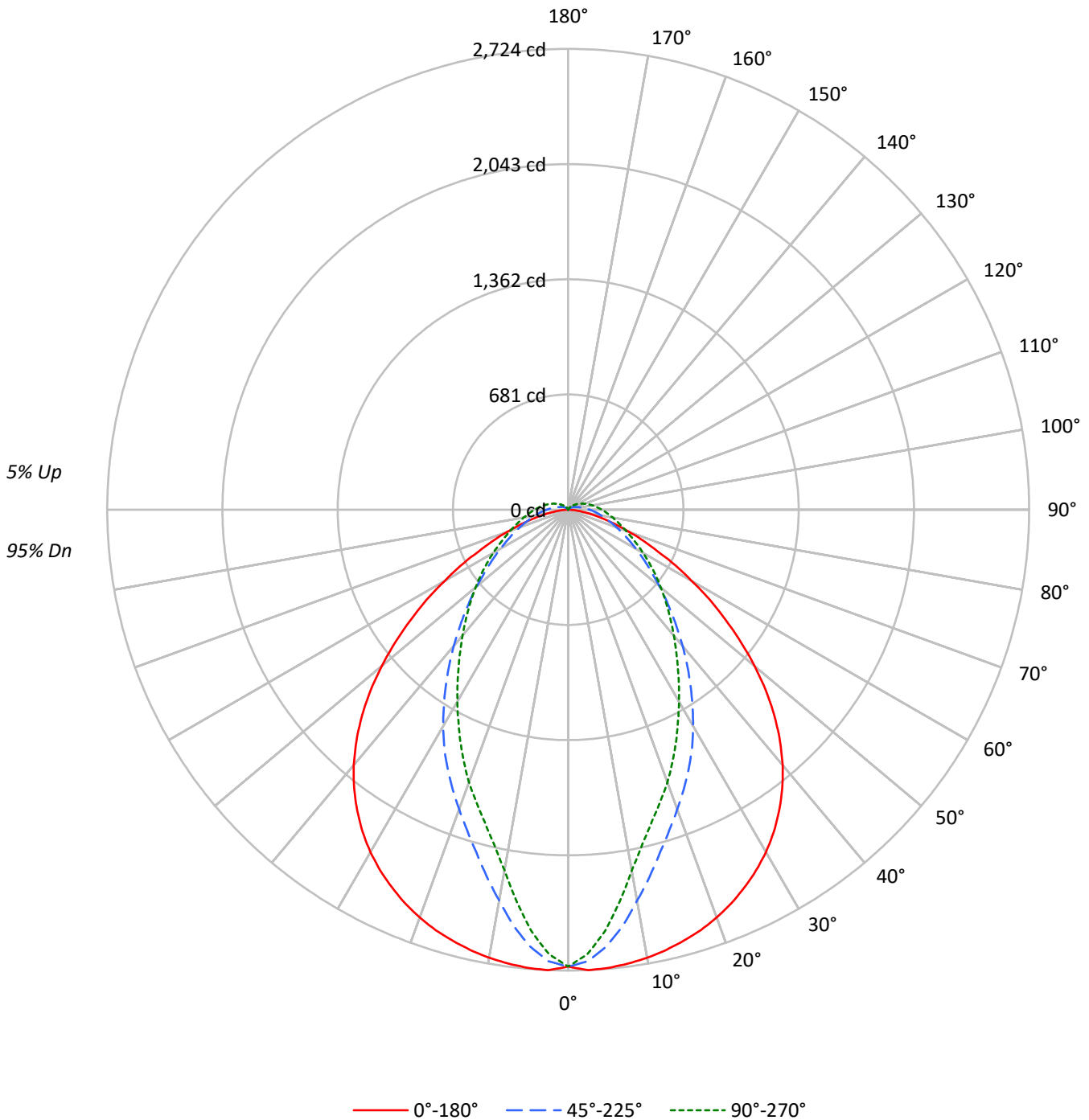
Lumens per Lamp: N/A
Luminaire Lumens: 5064.9 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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

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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95				
1	108	103	99	95	105	101	97	93	95	92	90	91	88	86	86	84	83	80				
2	99	91	85	79	96	89	83	78	85	80	75	81	77	73	77	74	71	68				
3	91	81	73	67	88	79	72	66	76	70	65	72	67	63	69	65	61	59				
4	84	73	65	58	81	71	63	58	68	61	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	45	39	35	33				
9	59	46	39	33	57	46	38	33	44	37	33	43	37	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	35	30	40	34	30	39	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19378	19378	19378
5°	19519	18181	17412
10°	19472	16236	14758
15°	19404	14419	12846
20°	19334	12970	11468
25°	19186	11716	10109
30°	18968	10422	8859
35°	18565	9097	7768
40°	17918	7863	6859
45°	16883	6734	6087
50°	15387	5778	5447
55°	13499	4989	4875
60°	11368	4360	4383
65°	9183	3872	3973
70°	7306	3504	3683
75°	5516	3200	3506
80°	3972	3039	3442
85°	2441	2969	3463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	4.8
10°-20°	611.8	12.1
20°-30°	829.5	16.4
30°-40°	881.1	17.4
40°-50°	787.9	15.6
50°-60°	610.5	12.1
60°-70°	422.0	8.3
70°-80°	269.7	5.3
80°-90°	165.1	3.3
90°-100°	102.7	2.0
100°-110°	64.4	1.3
110°-120°	39.5	0.8
120°-130°	22.4	0.4
130°-140°	11.4	0.2
140°-150°	4.8	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1681.9	33.2
0°-40°	2563.0	50.6
0°-60°	3961.3	78.2
0°-90°	4818.1	95.1
90°-120°	206.6	4.1
90°-150°	245.2	4.8
90°-180°	247.0	4.9
0°-180°	5064.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2700	2700	2700	2700	2700	
5°	2718	2652	2590	2520	2499	258
15°	2637	2378	2097	1944	1909	745
25°	2464	2003	1687	1545	1508	1135
35°	2173	1585	1257	1147	1128	1357
45°	1724	1111	863	827	833	1324
55°	1135	684	570	591	606	1017
65°	583	388	375	416	429	591
75°	226	196	245	298	310	248
85°	42	88	160	213	229	50
90°	1	57	127	181	199	3
95°	0	36	99	152	171	0
105°	0	16	59	104	123	0
115°	0	9	37	69	84	0
125°	0	5	23	44	53	1
135°	1	2	14	26	31	1
145°	1	1	6	14	16	1
155°	2	1	2	5	6	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2700.4	2700.4	2700.4	2700.4	2700.4
2.5°	2724.4	2680.4	2671.4	2645.4	2628.4
5°	2718.4	2652.4	2590.4	2520.4	2499.4
7.5°	2706.4	2604.4	2479.4	2361.3	2334.3
10°	2689.4	2539.4	2346.3	2201.3	2164.3
12.5°	2666.4	2463.4	2221.3	2061.3	2024.3
15°	2637.4	2378.4	2097.3	1944.3	1909.3
17.5°	2605.4	2291.3	1986.3	1840.3	1809.3
20°	2565.4	2194.3	1884.3	1740.3	1714.3
22.5°	2519.4	2102.3	1786.3	1641.2	1611.2
25°	2464.4	2003.3	1687.2	1545.2	1508.2
27.5°	2404.4	1903.3	1585.2	1441.2	1406.2
30°	2337.3	1802.3	1476.2	1336.2	1309.2
32.5°	2260.3	1696.2	1366.2	1239.2	1216.2
35°	2173.3	1585.2	1257.2	1147.2	1128.2
37.5°	2078.3	1469.2	1152.2	1058.2	1046.2
40°	1971.3	1350.2	1051.2	976.1	971.1
42.5°	1852.3	1231.2	953.1	900.1	900.1
45°	1724.3	1111.2	863.1	827.1	833.1
47.5°	1585.2	992.1	780.1	762.1	772.1
50°	1438.2	881.1	703.1	701.1	714.1
52.5°	1288.2	778.1	632.1	644.1	659.1
55°	1135.2	684.1	570.1	591.1	606.1
57.5°	992.1	598.1	514.1	543.1	557.1
60°	842.1	521.1	462.1	497.1	511.1
62.5°	716.1	450.1	418.1	454.1	468.1
65°	583.1	388.1	375.1	416.1	429.1
67.5°	481.1	332.0	338.0	382.1	394.1
70°	383.1	281.0	305.0	351.1	363.1
72.5°	303.0	234.0	275.0	323.0	335.0
75°	226.0	196.0	245.0	298.0	310.0
77.5°	165.0	163.0	221.0	275.0	288.0
80°	116.0	133.0	199.0	252.0	267.0
82.5°	75.0	108.0	179.0	231.0	246.0
85°	42.0	88.0	160.0	213.0	229.0
87.5°	20.0	71.0	143.0	197.0	214.0
90°	1.0	57.0	127.0	181.0	199.0
92.5°	0.0	45.0	113.0	166.0	185.0
95°	0.0	36.0	99.0	152.0	171.0
97.5°	0.0	29.0	87.0	139.0	158.0
100°	0.0	23.0	77.0	126.0	146.0
102.5°	0.0	19.0	67.0	115.0	135.0
105°	0.0	16.0	59.0	104.0	123.0
107.5°	0.0	14.0	52.0	94.0	113.0
110°	0.0	12.0	47.0	85.0	103.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.0	41.0	77.0	94.0
115°	0.0	9.0	37.0	69.0	84.0
117.5°	0.0	8.0	33.0	62.0	76.0
120°	0.0	7.0	29.0	56.0	68.0
122.5°	0.0	6.0	26.0	49.0	60.0
125°	0.0	5.0	23.0	44.0	53.0
127.5°	1.0	4.0	21.0	39.0	46.0
130°	1.0	3.0	18.0	34.0	41.0
132.5°	1.0	3.0	16.0	30.0	35.0
135°	1.0	2.0	14.0	26.0	31.0
137.5°	1.0	2.0	12.0	23.0	26.0
140°	1.0	1.0	10.0	19.0	23.0
142.5°	1.0	1.0	8.0	16.0	19.0
145°	1.0	1.0	6.0	14.0	16.0
147.5°	1.0	1.0	5.0	11.0	13.0
150°	1.0	1.0	4.0	9.0	10.0
152.5°	1.0	1.0	3.0	7.0	8.0
155°	2.0	1.0	2.0	5.0	6.0
157.5°	2.0	2.0	2.0	4.0	4.0
160°	2.0	2.0	2.0	2.0	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)