

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: P#

Luminaire Tested: **4SNLED-LD5-50HL-SLN-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-50HL-SLN-UNV-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

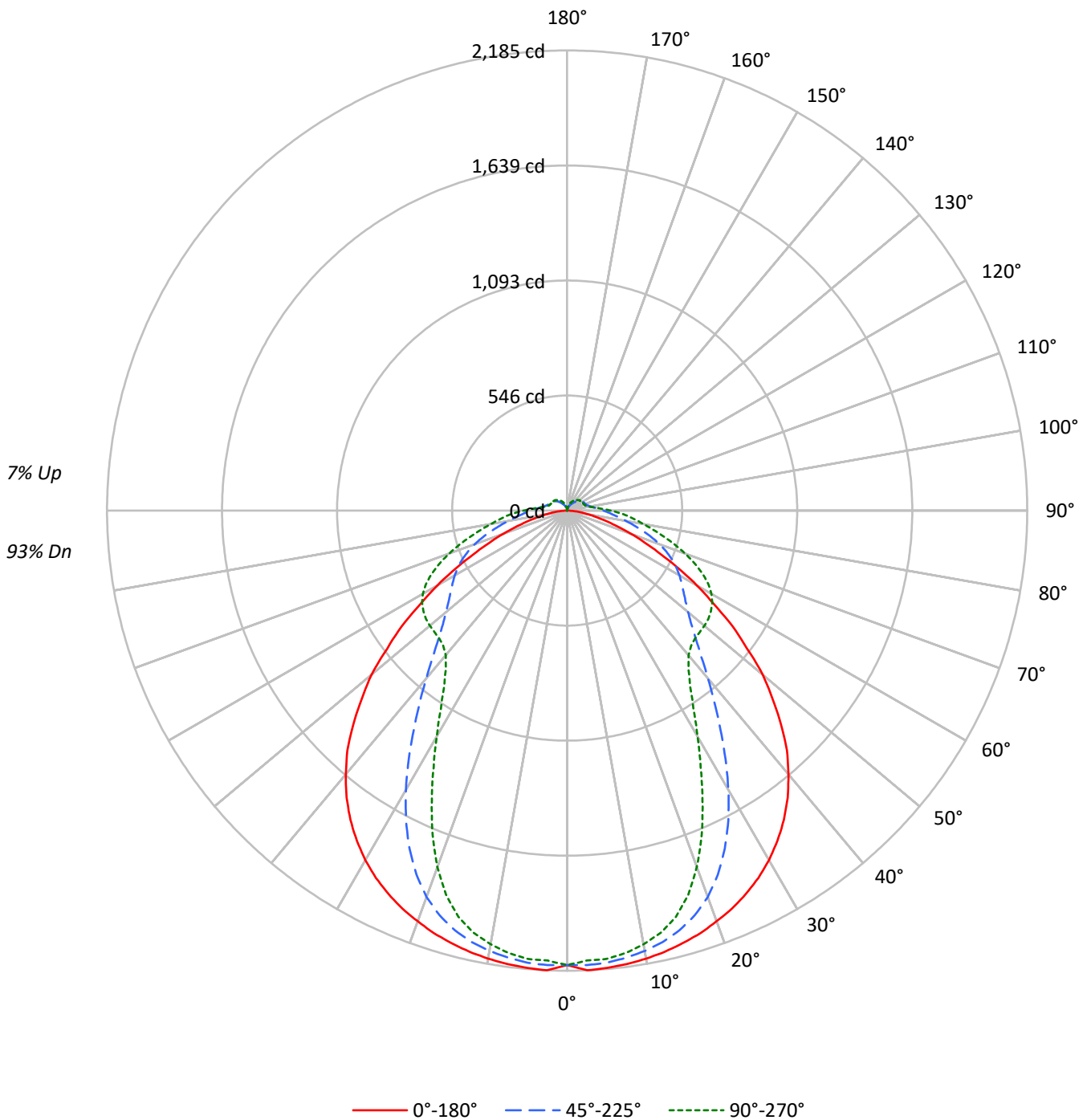
Lumens per Lamp: N/A  
Luminaire Lumens: 5426.0 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 37  
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93				
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76				
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64				
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54				
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47				
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41				
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36				
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32				
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29				
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27				
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17436	17436	17436
5°	17637	17051	16784
10°	17630	16579	16093
15°	17636	16024	15175
20°	17644	15198	13629
25°	17651	13926	11541
30°	17567	12254	9492
35°	17317	10426	7955
40°	16810	8829	7191
45°	15919	7673	7137
50°	14707	7015	7388
55°	12950	6743	7646
60°	10926	6647	7751
65°	8788	6500	7510
70°	7059	6164	6925
75°	5321	5579	6146
80°	3929	5010	5467
85°	2623	4726	5028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.1	3.8
10°-20°	577.0	10.6
20°-30°	806.5	14.9
30°-40°	836.6	15.4
40°-50°	772.9	14.2
50°-60°	690.0	12.7
60°-70°	559.2	10.3
70°-80°	372.0	6.9
80°-90°	213.0	3.9
90°-100°	117.8	2.2
100°-110°	79.8	1.5
110°-120°	66.4	1.2
120°-130°	54.0	1.0
130°-140°	39.0	0.7
140°-150°	23.5	0.4
150°-160°	11.3	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1587.6	29.3
0°-40°	2424.2	44.7
0°-60°	3887.1	71.6
0°-90°	5031.2	92.7
90°-120°	264.1	4.9
90°-150°	380.5	7.0
90°-180°	395.0	7.3
0°-180°	5426.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2180	2144	2155	2140	2137	207
15°	2126	2081	2063	2016	1996	601
25°	2008	1919	1771	1586	1521	926
35°	1794	1597	1270	1066	1018	1119
45°	1436	1138	864	834	859	1105
55°	960	726	675	785	834	854
65°	490	439	550	673	709	496
75°	190	238	370	454	473	209
85°	38	111	218	279	287	44
90°	2	78	172	208	206	3
95°	2	66	137	146	142	1
105°	1	57	98	96	91	1
115°	1	52	87	86	84	1
125°	1	44	77	81	79	1
135°	2	33	61	71	71	1
145°	2	21	42	55	59	1
155°	2	13	26	35	42	1
165°	2	8	13	17	22	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°	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2184.8	2149.2	2160.4	2151.0	2138.8
5°	2180.1	2143.5	2154.8	2139.8	2137.0
7.5°	2171.7	2135.1	2141.7	2123.8	2119.1
10°	2160.4	2122.0	2122.9	2097.6	2091.0
12.5°	2145.4	2103.2	2097.6	2062.9	2053.5
15°	2125.7	2080.7	2062.9	2016.0	1996.3
17.5°	2104.1	2051.6	2015.1	1942.9	1911.9
20°	2075.1	2016.0	1952.2	1842.5	1801.3
22.5°	2046.0	1972.9	1870.7	1724.4	1669.1
25°	2008.5	1919.4	1771.3	1585.6	1520.9
27.5°	1966.3	1856.6	1656.9	1443.1	1373.7
30°	1916.6	1780.6	1531.2	1303.4	1237.7
32.5°	1858.5	1695.3	1399.0	1177.7	1116.8
35°	1793.8	1596.9	1269.6	1066.1	1018.3
37.5°	1719.7	1489.0	1149.6	976.1	945.2
40°	1635.3	1371.8	1038.9	906.7	896.4
42.5°	1544.4	1257.4	944.2	861.7	871.1
45°	1436.5	1138.3	864.5	833.6	858.9
47.5°	1323.1	1022.1	799.8	817.7	854.2
50°	1213.4	914.2	749.2	807.3	850.5
52.5°	1077.4	817.7	708.9	798.0	844.8
55°	960.2	725.8	675.1	784.8	833.6
57.5°	825.2	643.2	645.1	768.0	816.7
60°	712.6	568.2	616.1	744.5	791.4
62.5°	598.2	500.7	584.2	713.6	755.8
65°	490.4	438.8	549.5	673.3	708.9
67.5°	400.4	382.6	510.1	624.5	654.5
70°	324.4	331.0	467.0	570.1	595.4
72.5°	249.4	283.2	420.1	512.0	533.5
75°	190.3	238.2	370.4	453.8	472.6
77.5°	140.7	198.8	325.4	401.3	417.3
80°	99.4	164.1	283.2	355.4	367.6
82.5°	66.6	135.0	248.5	314.1	325.4
85°	38.4	110.6	218.5	279.4	286.9
87.5°	15.9	91.9	194.1	243.8	247.5
90°	1.9	77.8	172.5	208.2	206.3
92.5°	1.9	70.3	153.8	174.4	169.7
95°	1.9	65.6	136.9	146.3	141.6
97.5°	1.9	62.8	121.9	125.6	121.0
100°	0.9	60.9	111.6	111.6	106.9
102.5°	0.9	59.1	104.1	101.3	97.5
105°	0.9	57.2	98.5	95.6	91.0
107.5°	0.9	56.3	94.7	91.9	87.2
110°	0.9	54.4	91.9	89.1	85.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	53.4	90.0	88.1	83.5
115°	0.9	51.6	87.2	86.3	83.5
117.5°	0.9	49.7	85.3	85.3	82.5
120°	0.9	47.8	82.5	84.4	81.6
122.5°	0.9	45.9	79.7	82.5	79.7
125°	0.9	44.1	76.9	80.6	78.8
127.5°	1.9	41.3	73.1	78.8	76.9
130°	0.9	38.4	69.4	76.9	76.0
132.5°	1.9	35.6	65.6	74.1	74.1
135°	1.9	32.8	60.9	71.3	71.3
137.5°	1.9	29.1	56.3	67.5	68.5
140°	1.9	26.3	51.6	63.8	65.6
142.5°	1.9	23.4	46.9	60.0	62.8
145°	1.9	20.6	42.2	55.3	59.1
147.5°	1.9	18.8	37.5	49.7	55.3
150°	1.9	15.9	33.8	45.0	50.6
152.5°	1.9	14.1	30.0	40.3	46.9
155°	1.9	13.1	26.3	34.7	42.2
157.5°	1.9	11.3	22.5	30.0	37.5
160°	1.9	9.4	18.8	26.3	31.9
162.5°	1.9	8.4	15.9	21.6	28.1
165°	1.9	7.5	13.1	16.9	22.5
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)