

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-L950-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-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

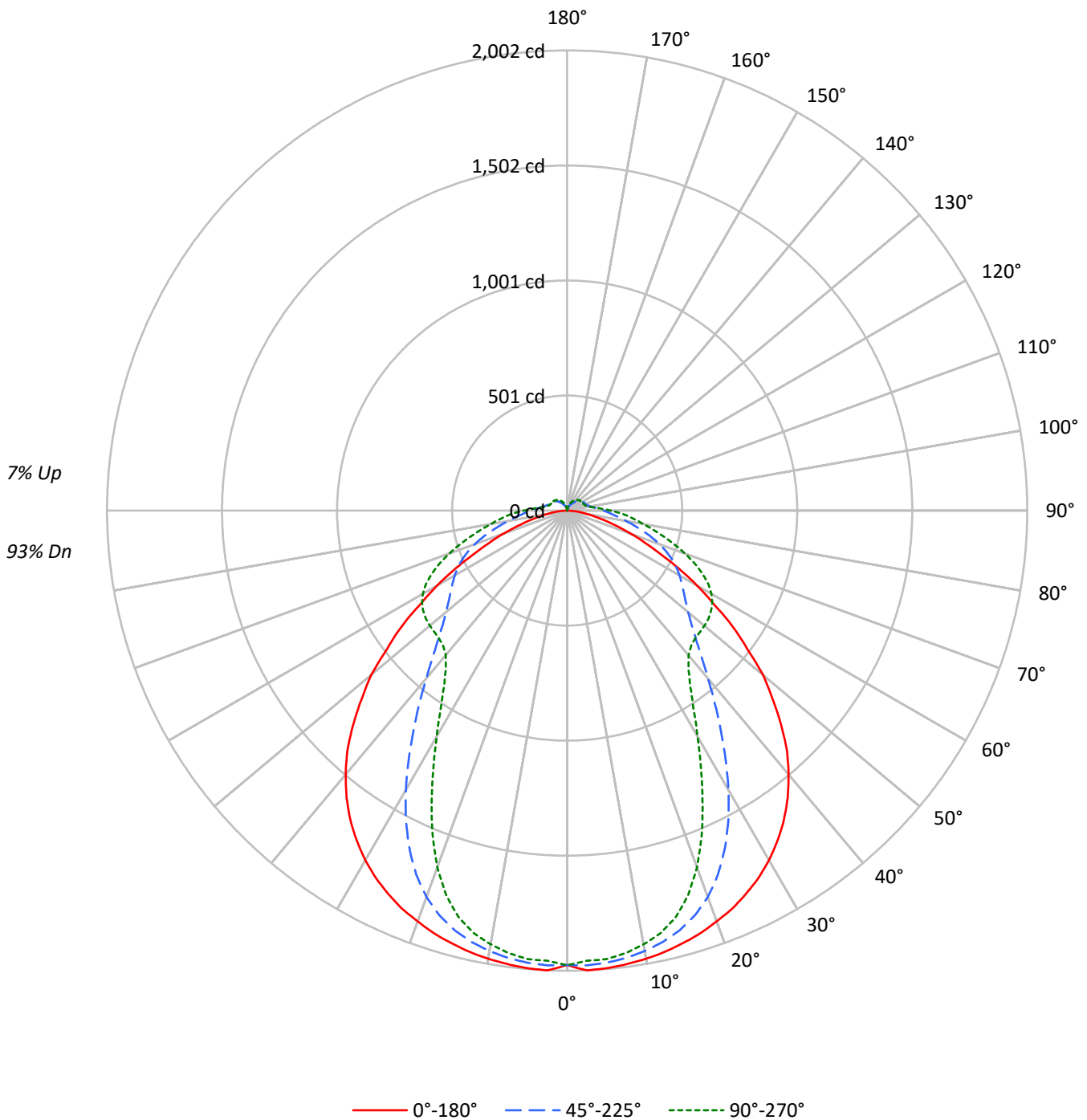
Lumens per Lamp: N/A  
Luminaire Lumens: 4973.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	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°	15980	15980	15980
5°	16164	15627	15383
10°	16158	15195	14749
15°	16163	14686	13908
20°	16171	13930	12491
25°	16178	12764	10577
30°	16101	11231	8700
35°	15871	9555	7291
40°	15407	8092	6591
45°	14591	7033	6541
50°	13479	6430	6771
55°	11868	6180	7007
60°	10013	6091	7104
65°	8055	5957	6883
70°	6471	5650	6347
75°	4879	5113	5632
80°	3601	4591	5011
85°	2405	4330	4609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.1	3.8
10°-20°	528.8	10.6
20°-30°	739.2	14.9
30°-40°	766.7	15.4
40°-50°	708.3	14.2
50°-60°	632.4	12.7
60°-70°	512.5	10.3
70°-80°	340.9	6.9
80°-90°	195.2	3.9
90°-100°	108.0	2.2
100°-110°	73.1	1.5
110°-120°	60.9	1.2
120°-130°	49.5	1.0
130°-140°	35.7	0.7
140°-150°	21.5	0.4
150°-160°	10.4	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1455.1	29.3
0°-40°	2221.8	44.7
0°-60°	3562.6	71.6
0°-90°	4611.2	92.7
90°-120°	242.0	4.9
90°-150°	348.8	7.0
90°-180°	362.0	7.3
0°-180°	4973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1998	1965	1975	1961	1959	190
15°	1948	1907	1891	1848	1830	551
25°	1841	1759	1623	1453	1394	848
35°	1644	1464	1164	977	933	1026
45°	1317	1043	792	764	787	1012
55°	880	665	619	719	764	782
65°	450	402	504	617	650	454
75°	174	218	340	416	433	191
85°	35	101	200	256	263	41
90°	2	71	158	191	189	3
95°	2	60	126	134	130	1
105°	1	52	90	88	83	1
115°	1	47	80	79	76	1
125°	1	40	70	74	72	1
135°	2	30	56	65	65	1
145°	2	19	39	51	54	1
155°	2	12	24	32	39	1
165°	2	7	12	16	21	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°	1977.5	1977.5	1977.5	1977.5	1977.5
2.5°	2002.4	1969.7	1980.0	1971.4	1960.3
5°	1998.1	1964.6	1974.9	1961.1	1958.6
7.5°	1990.4	1956.8	1962.9	1946.5	1942.2
10°	1980.0	1944.8	1945.7	1922.5	1916.4
12.5°	1966.3	1927.6	1922.5	1890.7	1882.1
15°	1948.2	1907.0	1890.7	1847.7	1829.6
17.5°	1928.5	1880.4	1846.8	1780.7	1752.3
20°	1901.8	1847.7	1789.3	1688.7	1650.9
22.5°	1875.2	1808.2	1714.5	1580.4	1529.7
25°	1840.8	1759.2	1623.4	1453.2	1393.9
27.5°	1802.1	1701.6	1518.5	1322.6	1259.0
30°	1756.6	1632.0	1403.4	1194.6	1134.4
32.5°	1703.3	1553.8	1282.2	1079.4	1023.5
35°	1644.0	1463.5	1163.6	977.1	933.3
37.5°	1576.1	1364.7	1053.6	894.6	866.3
40°	1498.8	1257.3	952.2	831.0	821.6
42.5°	1415.4	1152.4	865.4	789.8	798.4
45°	1316.6	1043.3	792.4	764.0	787.2
47.5°	1212.6	936.7	733.1	749.4	782.9
50°	1112.1	837.9	686.7	739.9	779.5
52.5°	987.4	749.4	649.7	731.3	774.3
55°	880.0	665.2	618.8	719.3	764.0
57.5°	756.3	589.5	591.3	703.8	748.5
60°	653.1	520.8	564.6	682.4	725.3
62.5°	548.3	458.9	535.4	654.0	692.7
65°	449.5	402.2	503.6	617.0	649.7
67.5°	367.0	350.6	467.5	572.4	599.9
70°	297.4	303.4	428.0	522.5	545.7
72.5°	228.6	259.5	385.0	469.2	489.0
75°	174.5	218.3	339.5	415.9	433.1
77.5°	128.9	182.2	298.2	367.8	382.4
80°	91.1	150.4	259.5	325.7	336.9
82.5°	61.0	123.8	227.7	287.9	298.2
85°	35.2	101.4	200.2	256.1	263.0
87.5°	14.6	84.2	177.9	223.4	226.9
90°	1.7	71.3	158.1	190.8	189.1
92.5°	1.7	64.5	140.9	159.8	155.6
95°	1.7	60.2	125.5	134.1	129.8
97.5°	1.7	57.6	111.7	115.2	110.9
100°	0.9	55.9	102.3	102.3	98.0
102.5°	0.9	54.1	95.4	92.8	89.4
105°	0.9	52.4	90.2	87.7	83.4
107.5°	0.9	51.6	86.8	84.2	79.9
110°	0.9	49.8	84.2	81.6	78.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	49.0	82.5	80.8	76.5
115°	0.9	47.3	79.9	79.1	76.5
117.5°	0.9	45.5	78.2	78.2	75.6
120°	0.9	43.8	75.6	77.3	74.8
122.5°	0.9	42.1	73.0	75.6	73.0
125°	0.9	40.4	70.5	73.9	72.2
127.5°	1.7	37.8	67.0	72.2	70.5
130°	0.9	35.2	63.6	70.5	69.6
132.5°	1.7	32.7	60.2	67.9	67.9
135°	1.7	30.1	55.9	65.3	65.3
137.5°	1.7	26.6	51.6	61.9	62.7
140°	1.7	24.1	47.3	58.4	60.2
142.5°	1.7	21.5	43.0	55.0	57.6
145°	1.7	18.9	38.7	50.7	54.1
147.5°	1.7	17.2	34.4	45.5	50.7
150°	1.7	14.6	30.9	41.3	46.4
152.5°	1.7	12.9	27.5	37.0	43.0
155°	1.7	12.0	24.1	31.8	38.7
157.5°	1.7	10.3	20.6	27.5	34.4
160°	1.7	8.6	17.2	24.1	29.2
162.5°	1.7	7.7	14.6	19.8	25.8
165°	1.7	6.9	12.0	15.5	20.6
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)