

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

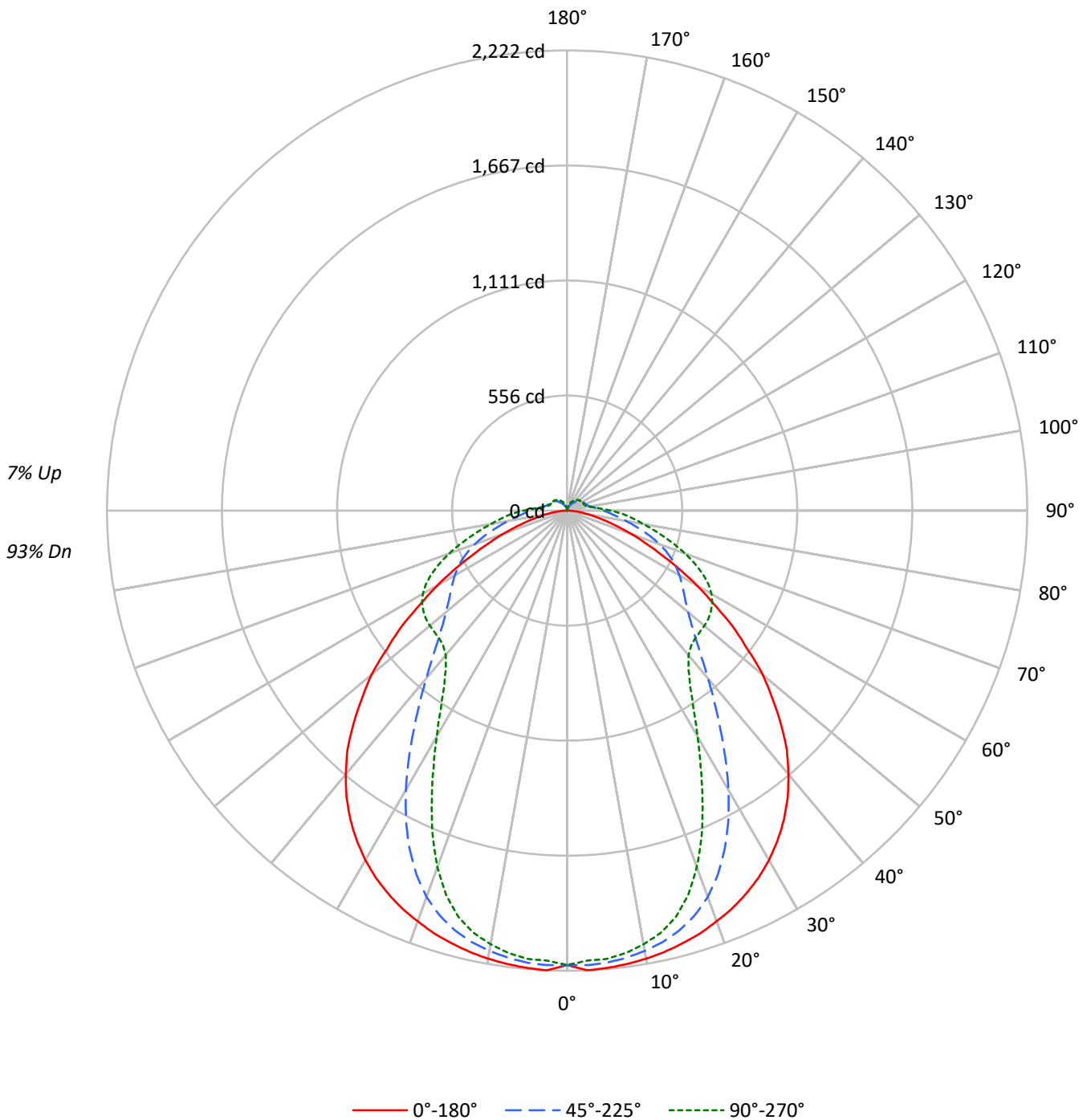
Lumens per Lamp: N/A
Luminaire Lumens: 5518.1 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	17731	17731	17731
5°	17936	17339	17068
10°	17929	16860	16366
15°	17936	16296	15433
20°	17944	15455	13859
25°	17951	14162	11737
30°	17865	12462	9653
35°	17611	10602	8090
40°	17095	8980	7313
45°	16190	7804	7258
50°	14955	7134	7513
55°	13170	6857	7775
60°	11111	6759	7882
65°	8937	6610	7637
70°	7178	6269	7043
75°	5413	5674	6250
80°	3997	5095	5560
85°	2671	4806	5114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.8
10°-20°	586.7	10.6
20°-30°	820.2	14.9
30°-40°	850.8	15.4
40°-50°	786.0	14.2
50°-60°	701.7	12.7
60°-70°	568.7	10.3
70°-80°	378.3	6.9
80°-90°	216.6	3.9
90°-100°	119.8	2.2
100°-110°	81.2	1.5
110°-120°	67.6	1.2
120°-130°	54.9	1.0
130°-140°	39.6	0.7
140°-150°	23.9	0.4
150°-160°	11.5	0.2
160°-170°	3.0	0.1
170°-180°	0.0	0.0
0°-30°	1614.5	29.3
0°-40°	2465.3	44.7
0°-60°	3953.0	71.6
0°-90°	5116.6	92.7
90°-120°	268.6	4.9
90°-150°	387.0	7.0
90°-180°	401.0	7.3
0°-180°	5518.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2217	2180	2191	2176	2173	211
15°	2162	2116	2098	2050	2030	611
25°	2043	1952	1801	1612	1547	941
35°	1824	1624	1291	1084	1036	1138
45°	1461	1158	879	848	874	1123
55°	976	738	687	798	848	868
65°	499	446	559	685	721	504
75°	194	242	377	462	481	212
85°	39	112	222	284	292	45
90°	2	79	176	212	210	3
95°	2	67	139	149	144	1
105°	1	58	100	97	92	1
115°	1	52	89	88	85	1
125°	1	45	78	82	80	1
135°	2	33	62	72	72	1
145°	2	21	43	56	60	1
155°	2	13	27	35	43	1
165°	2	8	13	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-50HL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2194.2	2194.2	2194.2	2194.2	2194.2
2.5°	2221.8	2185.6	2197.0	2187.5	2175.1
5°	2217.1	2179.9	2191.3	2176.1	2173.2
7.5°	2208.5	2171.3	2178.0	2159.8	2155.1
10°	2197.0	2157.9	2158.9	2133.1	2126.5
12.5°	2181.8	2138.9	2133.1	2097.9	2088.3
15°	2161.8	2116.0	2097.9	2050.2	2030.2
17.5°	2139.8	2086.4	2049.2	1975.8	1944.3
20°	2110.3	2050.2	1985.3	1873.8	1831.8
22.5°	2080.7	2006.3	1902.4	1753.6	1697.4
25°	2042.6	1952.0	1801.3	1612.5	1546.7
27.5°	1999.6	1888.1	1685.0	1467.6	1397.0
30°	1949.1	1810.8	1557.2	1325.5	1258.7
32.5°	1890.0	1724.1	1422.7	1197.7	1135.7
35°	1824.2	1623.9	1291.1	1084.2	1035.6
37.5°	1748.9	1514.3	1169.1	992.7	961.2
40°	1663.0	1395.1	1056.6	922.1	911.6
42.5°	1570.5	1278.7	960.3	876.3	885.9
45°	1460.9	1157.6	879.2	847.7	873.5
47.5°	1345.5	1039.4	813.4	831.5	868.7
50°	1233.9	929.7	761.9	821.0	864.9
52.5°	1095.7	831.5	720.9	811.5	859.2
55°	976.5	738.1	686.6	798.1	847.7
57.5°	839.1	654.2	656.1	781.0	830.6
60°	724.7	577.9	626.5	757.1	804.8
62.5°	608.4	509.2	594.1	725.7	768.6
65°	498.7	446.3	558.8	684.7	720.9
67.5°	407.2	389.1	518.7	635.1	665.6
70°	329.9	336.6	474.9	579.8	605.5
72.5°	253.7	288.0	427.2	520.7	542.6
75°	193.6	242.2	376.7	461.5	480.6
77.5°	143.0	202.2	330.9	408.1	424.3
80°	101.1	166.9	288.0	361.4	373.8
82.5°	67.7	137.3	252.7	319.4	330.9
85°	39.1	112.5	222.2	284.2	291.8
87.5°	16.2	93.5	197.4	247.9	251.7
90°	1.9	79.1	175.5	211.7	209.8
92.5°	1.9	71.5	156.4	177.4	172.6
95°	1.9	66.8	139.2	148.8	144.0
97.5°	1.9	63.9	124.0	127.8	123.0
100°	1.0	62.0	113.5	113.5	108.7
102.5°	1.0	60.1	105.8	103.0	99.2
105°	1.0	58.2	100.1	97.3	92.5
107.5°	1.0	57.2	96.3	93.5	88.7
110°	1.0	55.3	93.5	90.6	86.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	54.4	91.5	89.6	84.9
115°	1.0	52.4	88.7	87.7	84.9
117.5°	1.0	50.5	86.8	86.8	83.9
120°	1.0	48.6	83.9	85.8	83.0
122.5°	1.0	46.7	81.1	83.9	81.1
125°	1.0	44.8	78.2	82.0	80.1
127.5°	1.9	42.0	74.4	80.1	78.2
130°	1.0	39.1	70.6	78.2	77.2
132.5°	1.9	36.2	66.8	75.3	75.3
135°	1.9	33.4	62.0	72.5	72.5
137.5°	1.9	29.6	57.2	68.7	69.6
140°	1.9	26.7	52.4	64.8	66.8
142.5°	1.9	23.8	47.7	61.0	63.9
145°	1.9	21.0	42.9	56.3	60.1
147.5°	1.9	19.1	38.1	50.5	56.3
150°	1.9	16.2	34.3	45.8	51.5
152.5°	1.9	14.3	30.5	41.0	47.7
155°	1.9	13.4	26.7	35.3	42.9
157.5°	1.9	11.4	22.9	30.5	38.1
160°	1.9	9.5	19.1	26.7	32.4
162.5°	1.9	8.6	16.2	21.9	28.6
165°	1.9	7.6	13.4	17.2	22.9
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)