

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: P218093

Luminaire Tested: **4SNLED-LD5-52HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

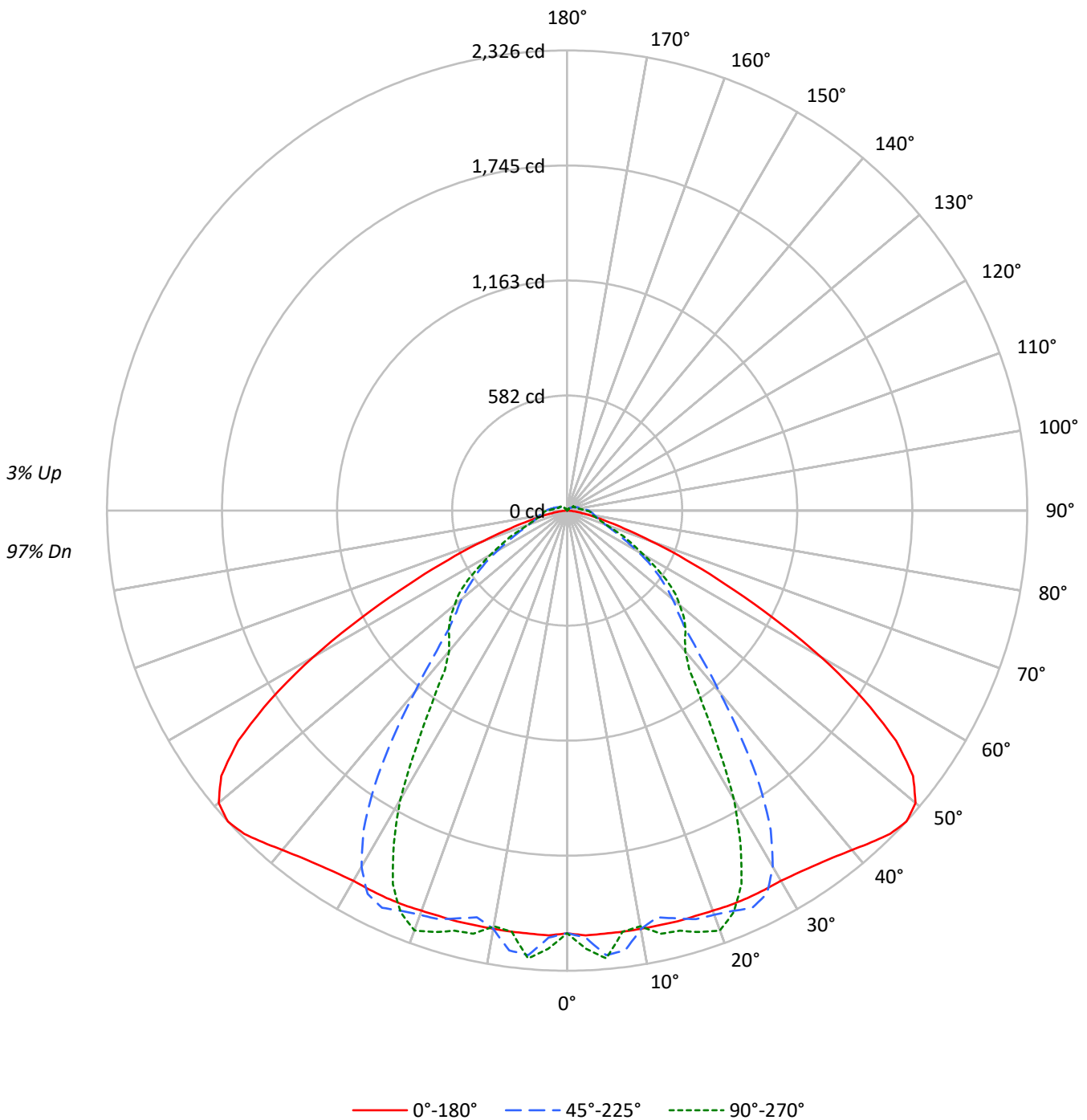
Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218093

CATALOG NUMBER: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218093

CATALOG NUMBER: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U

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	97	
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	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	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	57	65	60	57	54	
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	59	54	50	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	54	49	45	43	
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	50	44	40	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	46	40	36	34	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34417	34417	34417
5°	34599	34276	33792
10°	34870	31088	29672
15°	35461	29720	28925
20°	36353	29397	28391
25°	37677	29310	25272
30°	39251	27136	19899
35°	41810	22033	13788
40°	45509	15563	10612
45°	50531	11068	9642
50°	54903	9298	8496
55°	53815	7637	7083
60°	44648	5779	5295
65°	30852	4183	3893
70°	19205	3180	2668
75°	10843	2712	2112
80°	6122	2536	1817
85°	2728	2457	1821



TEST NUMBER: P218093

CATALOG NUMBER: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	3.9
10°-20°	618.3	11.6
20°-30°	982.5	18.5
30°-40°	1059.4	19.9
40°-50°	913.1	17.2
50°-60°	691.3	13.0
60°-70°	373.4	7.0
70°-80°	177.4	3.3
80°-90°	111.4	2.1
90°-100°	70.9	1.3
100°-110°	45.4	0.9
110°-120°	30.3	0.6
120°-130°	20.0	0.4
130°-140°	9.8	0.2
140°-150°	4.2	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1810.8	34.0
0°-40°	2870.2	54.0
0°-60°	4474.6	84.1
0°-90°	5136.8	96.6
90°-120°	146.6	2.8
90°-150°	180.6	3.4
90°-180°	182.0	3.4
0°-180°	5319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2147	2193	2256	2286	2272	205
15°	2150	2207	2133	2207	2198	609
25°	2160	2120	2215	2155	2084	999
35°	2188	2106	1698	1298	1192	1378
45°	2310	1448	844	835	846	1778
55°	2030	626	558	610	612	1765
65°	882	267	283	318	321	905
75°	201	139	163	163	160	237
85°	22	84	125	125	122	31
90°	0	65	109	106	98	1
95°	0	52	87	79	74	0
105°	0	33	60	54	49	0
115°	0	19	41	41	41	0
125°	0	11	27	35	33	0
135°	0	5	16	19	19	0
145°	0	3	8	11	8	0
155°	0	3	3	5	3	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218093

CATALOG NUMBER: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.9	2135.9	2135.9	2135.9	2135.9
2.5°	2149.5	2152.2	2160.4	2201.2	2217.5
5°	2146.8	2193.0	2255.6	2285.5	2271.9
7.5°	2146.8	2242.0	2242.0	2184.8	2146.8
10°	2146.8	2269.2	2146.8	2135.9	2133.2
12.5°	2146.8	2252.9	2105.9	2182.1	2190.3
15°	2149.5	2206.6	2133.2	2206.6	2198.5
17.5°	2149.5	2152.2	2165.8	2222.9	2233.8
20°	2152.2	2116.8	2174.0	2266.5	2258.3
22.5°	2157.6	2111.4	2190.3	2247.4	2198.5
25°	2160.4	2119.5	2214.8	2154.9	2084.2
27.5°	2160.4	2130.4	2184.8	2013.4	1896.4
30°	2160.4	2135.9	2078.7	1817.5	1686.9
32.5°	2171.2	2130.4	1915.5	1561.8	1420.3
35°	2187.6	2105.9	1697.8	1297.8	1191.7
37.5°	2209.3	2040.6	1442.1	1085.6	1014.9
40°	2239.3	1899.2	1197.2	949.6	927.8
42.5°	2274.6	1692.4	995.8	881.6	881.6
45°	2310.0	1447.5	843.5	835.3	846.2
47.5°	2326.3	1208.1	759.1	789.0	799.9
50°	2299.1	985.0	696.5	737.4	742.8
52.5°	2203.9	786.3	625.8	674.8	688.4
55°	2029.8	625.8	557.8	609.5	612.2
57.5°	1776.7	497.9	487.0	527.8	525.1
60°	1485.6	402.7	408.1	448.9	448.9
62.5°	1172.7	326.5	342.8	378.2	375.5
65°	881.6	266.6	283.0	318.3	321.1
67.5°	650.3	220.4	239.4	263.9	258.5
70°	454.4	185.0	204.1	217.7	212.2
72.5°	302.0	157.8	179.6	185.0	182.3
75°	201.3	138.8	163.3	163.3	160.5
77.5°	130.6	122.4	152.4	149.6	144.2
80°	81.6	108.8	141.5	136.0	130.6
82.5°	49.0	95.2	133.3	127.9	122.4
85°	21.8	84.3	125.2	125.2	122.4
87.5°	8.2	76.2	117.0	119.7	114.3
90°	0.0	65.3	108.8	106.1	98.0
92.5°	0.0	59.9	98.0	89.8	84.3
95°	0.0	51.7	87.1	78.9	73.5
97.5°	0.0	46.3	78.9	70.7	65.3
100°	0.0	40.8	70.7	62.6	57.1
102.5°	0.0	35.4	65.3	57.1	54.4
105°	0.0	32.7	59.9	54.4	49.0
107.5°	0.0	29.9	54.4	49.0	46.3
110°	0.0	24.5	49.0	46.3	43.5



TEST NUMBER: P218093

CATALOG NUMBER: 4SNLED-LD5-52HL-LC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.8	43.5	43.5	43.5
115°	0.0	19.0	40.8	40.8	40.8
117.5°	0.0	16.3	35.4	40.8	40.8
120°	0.0	16.3	32.7	38.1	38.1
122.5°	0.0	13.6	29.9	38.1	38.1
125°	0.0	10.9	27.2	35.4	32.7
127.5°	0.0	8.2	24.5	29.9	29.9
130°	0.0	8.2	21.8	27.2	24.5
132.5°	0.0	5.4	19.0	21.8	21.8
135°	0.0	5.4	16.3	19.0	19.0
137.5°	0.0	5.4	13.6	16.3	13.6
140°	0.0	2.7	10.9	13.6	10.9
142.5°	0.0	2.7	10.9	13.6	10.9
145°	0.0	2.7	8.2	10.9	8.2
147.5°	0.0	2.7	5.4	8.2	8.2
150°	0.0	2.7	5.4	8.2	5.4
152.5°	0.0	2.7	5.4	5.4	2.7
155°	0.0	2.7	2.7	5.4	2.7
157.5°	0.0	2.7	2.7	2.7	2.7
160°	2.7	2.7	2.7	2.7	0.0
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)