

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-LD5-52HL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52HL-SLC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

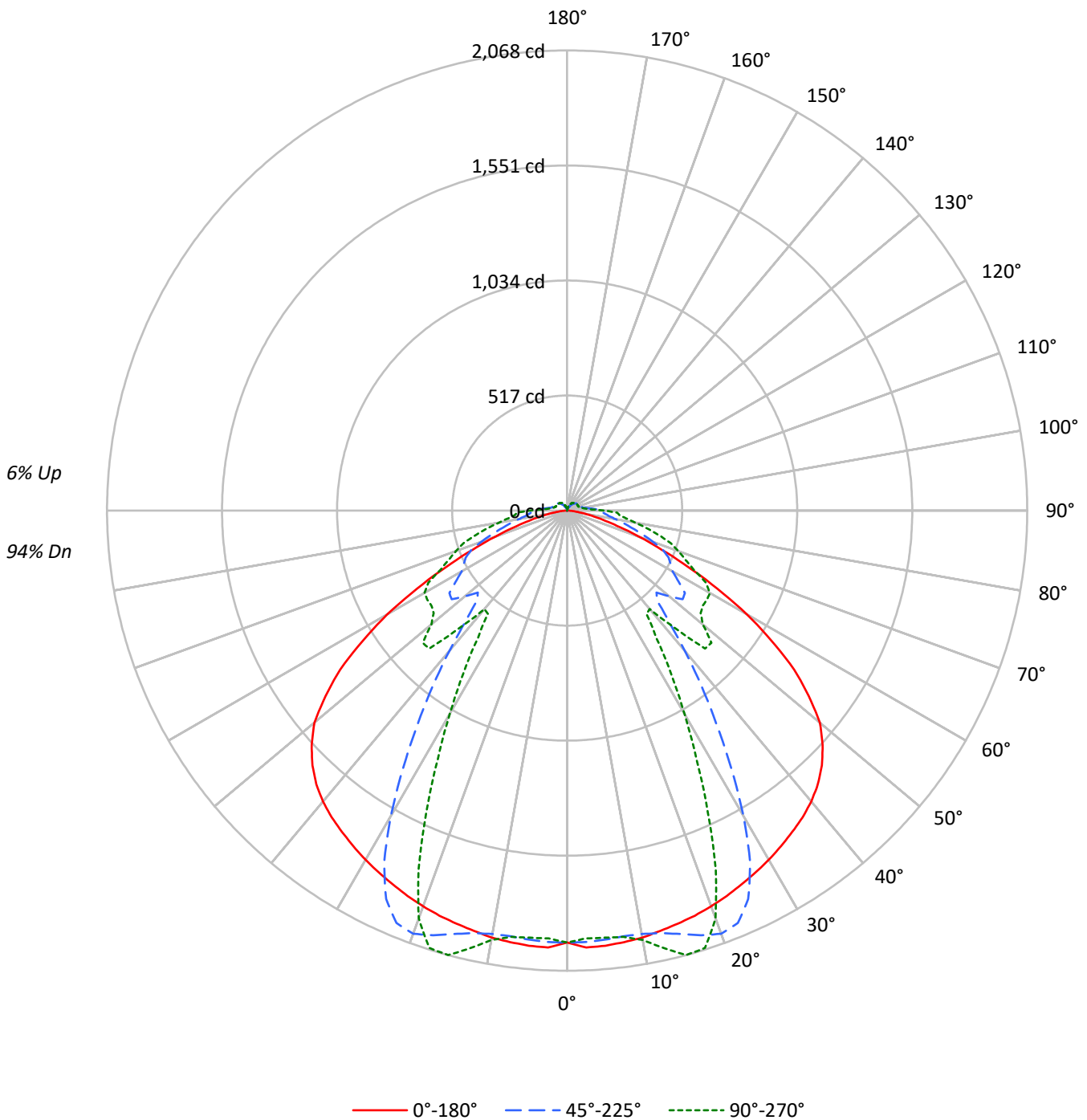
Lumens per Lamp: N/A
Luminaire Lumens: 4987.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (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: P#
CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L950-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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15688	15688	15688
5°	15879	15321	15133
10°	15900	15088	15080
15°	15943	15301	15718
20°	16091	15756	14754
25°	16291	15142	11360
30°	16613	12682	8080
35°	17025	9605	5471
40°	17545	6982	4633
45°	17943	5065	7284
50°	17969	5609	6912
55°	16795	6455	6826
60°	14310	5906	7256
65°	10765	5957	6637
70°	7555	5422	6177
75°	4949	4544	5544
80°	3159	3892	4614
85°	1701	3699	4141



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.7
10°-20°	557.8	11.2
20°-30°	810.3	16.2
30°-40°	774.2	15.5
40°-50°	708.1	14.2
50°-60°	653.9	13.1
60°-70°	519.4	10.4
70°-80°	320.6	6.4
80°-90°	174.5	3.5
90°-100°	88.2	1.8
100°-110°	55.4	1.1
110°-120°	47.0	0.9
120°-130°	38.4	0.8
130°-140°	27.5	0.6
140°-150°	17.0	0.3
150°-160°	8.1	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1552.7	31.1
0°-40°	2326.9	46.7
0°-60°	3688.9	74.0
0°-90°	4703.4	94.3
90°-120°	190.6	3.8
90°-150°	273.5	5.5
90°-180°	284.0	5.7
0°-180°	4987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1963	1933	1936	1926	1927	187
15°	1922	1896	1970	2043	2068	544
25°	1854	1890	1926	1630	1497	857
35°	1764	1735	1170	805	700	1106
45°	1619	1129	571	728	877	1244
55°	1245	579	646	695	744	1097
65°	601	376	504	612	626	607
75°	177	200	302	400	426	201
85°	25	85	171	233	236	32
90°	1	64	153	181	168	1
95°	0	59	106	94	88	0
105°	0	53	65	59	58	0
115°	0	44	63	56	53	0
125°	1	35	56	54	52	1
135°	1	25	45	49	47	1
145°	1	16	31	40	42	1
155°	2	10	19	25	30	1
165°	2	5	10	12	16	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.4	1941.4	1941.4	1941.4	1941.4
2.5°	1965.5	1937.1	1940.5	1934.5	1924.2
5°	1962.9	1932.8	1936.2	1925.9	1926.8
7.5°	1956.0	1925.1	1929.4	1927.6	1931.9
10°	1948.3	1915.6	1931.9	1946.5	1959.4
12.5°	1934.5	1905.3	1944.8	1987.8	2014.4
15°	1921.6	1895.8	1969.8	2042.8	2067.7
17.5°	1908.7	1892.4	2000.7	2064.3	2060.8
20°	1892.4	1890.7	2023.9	2002.4	1950.0
22.5°	1874.4	1891.5	2005.8	1848.6	1745.4
25°	1853.7	1889.8	1925.9	1630.3	1497.1
27.5°	1833.1	1882.1	1780.7	1391.4	1259.9
30°	1812.5	1861.5	1584.7	1173.1	1053.6
32.5°	1788.4	1816.8	1371.6	979.7	869.7
35°	1763.5	1735.1	1169.6	805.3	700.4
37.5°	1737.7	1617.4	988.3	652.3	585.3
40°	1706.8	1469.6	821.6	559.5	577.5
42.5°	1668.1	1302.9	674.6	587.0	712.4
45°	1619.1	1129.3	570.6	727.9	876.6
47.5°	1557.2	962.5	544.9	833.6	880.0
50°	1482.5	809.6	599.0	799.2	795.8
52.5°	1369.0	682.4	654.0	728.8	756.3
55°	1245.3	579.2	646.3	695.3	744.2
57.5°	1088.9	509.6	593.0	688.4	745.1
60°	933.3	463.2	547.4	687.5	740.8
62.5°	761.4	421.1	524.2	671.2	703.0
65°	600.7	375.6	503.6	611.9	626.5
67.5°	460.6	329.2	467.5	545.7	574.9
70°	347.2	283.6	410.8	495.0	531.1
72.5°	250.1	240.6	352.4	450.3	488.1
75°	177.0	200.2	301.7	399.6	426.3
77.5°	122.0	163.3	258.7	343.8	365.2
80°	79.9	130.6	220.0	295.6	310.2
82.5°	48.1	104.8	190.8	258.7	266.4
85°	24.9	85.1	171.0	232.9	236.3
87.5°	7.7	71.3	159.8	220.9	225.2
90°	0.9	63.6	153.0	181.3	167.6
92.5°	0.0	60.2	132.3	123.8	110.9
95°	0.0	59.3	105.7	93.7	88.5
97.5°	0.0	57.6	86.8	78.2	75.6
100°	0.0	55.9	74.8	68.8	67.9
102.5°	0.0	55.0	67.9	62.7	61.9
105°	0.0	53.3	65.3	59.3	58.4
107.5°	0.0	50.7	63.6	57.6	55.9
110°	0.0	48.1	63.6	56.7	54.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.5	63.6	55.9	53.3
115°	0.0	43.8	62.7	55.9	53.3
117.5°	0.9	42.1	61.9	55.9	53.3
120°	0.0	40.4	60.2	55.9	52.4
122.5°	0.9	37.8	58.4	55.0	52.4
125°	0.9	35.2	55.9	54.1	51.6
127.5°	0.9	32.7	53.3	52.4	49.8
130°	0.9	30.1	50.7	51.6	49.0
132.5°	0.9	27.5	47.3	49.8	48.1
135°	0.9	24.9	44.7	49.0	47.3
137.5°	0.9	22.3	41.3	46.4	46.4
140°	0.9	19.8	37.8	44.7	45.5
142.5°	0.9	18.0	34.4	43.0	43.8
145°	0.9	15.5	30.9	39.5	42.1
147.5°	0.9	13.8	27.5	36.1	39.5
150°	0.9	12.0	24.1	32.7	36.1
152.5°	0.9	10.3	21.5	28.4	33.5
155°	1.7	9.5	18.9	24.9	30.1
157.5°	1.7	7.7	15.5	21.5	25.8
160°	1.7	6.9	13.8	18.0	23.2
162.5°	1.7	6.0	11.2	15.5	19.8
165°	1.7	5.2	9.5	12.0	16.3
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)