

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-LD5-22SL-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-LD5-22SL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

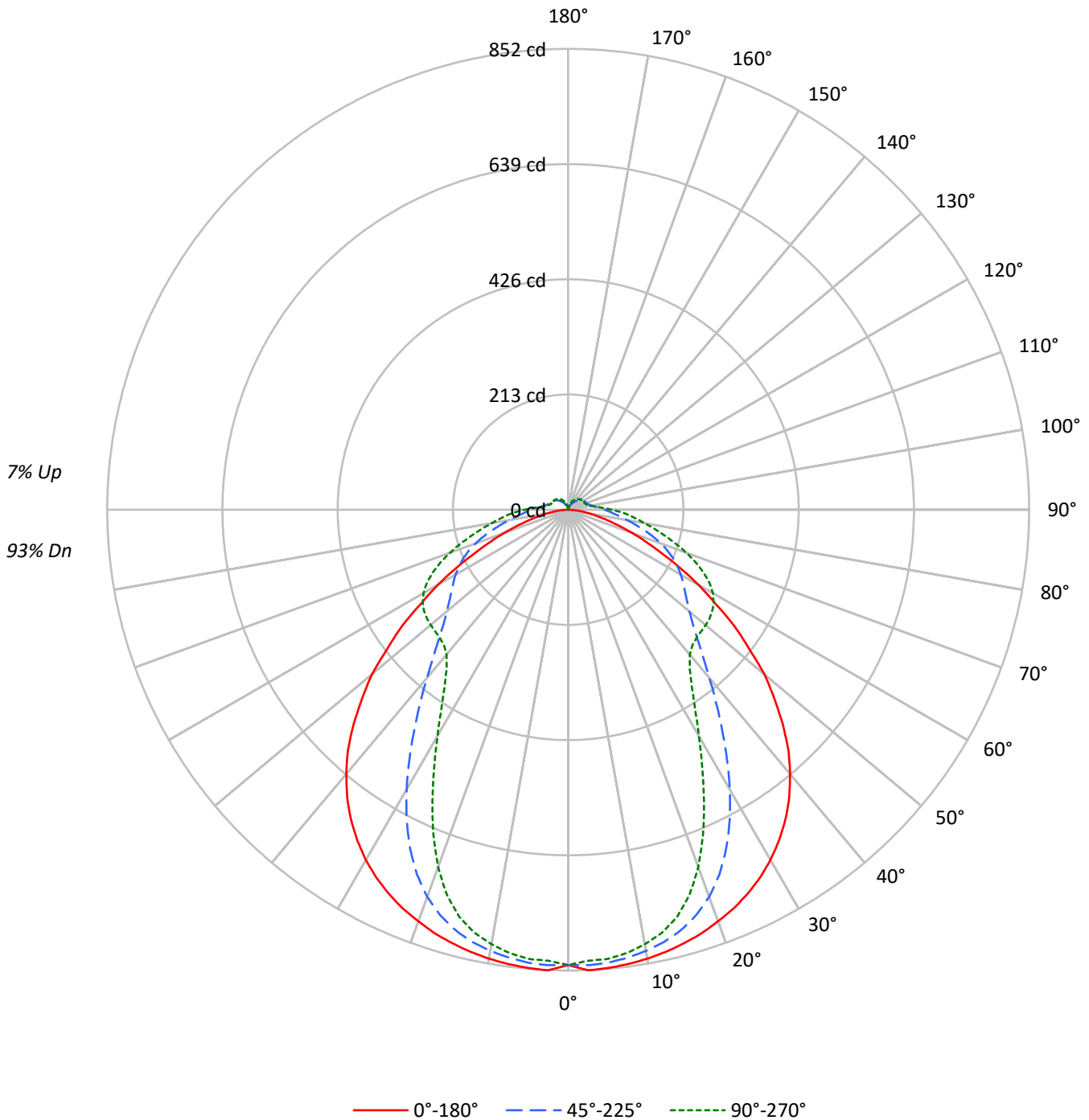
Lumens per Lamp: N/A
Luminaire Lumens: 2117.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-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	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°	6803	6803	6803
5°	6881	6652	6549
10°	6879	6469	6279
15°	6881	6252	5921
20°	6884	5930	5317
25°	6887	5434	4503
30°	6854	4781	3703
35°	6757	4068	3104
40°	6558	3445	2805
45°	6211	2994	2784
50°	5738	2737	2882
55°	5052	2631	2983
60°	4262	2594	3024
65°	3428	2536	2930
70°	2755	2405	2702
75°	2078	2176	2398
80°	1534	1955	2133
85°	1025	1843	1961



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.8
10°-20°	225.1	10.6
20°-30°	314.7	14.9
30°-40°	326.4	15.4
40°-50°	301.5	14.2
50°-60°	269.2	12.7
60°-70°	218.2	10.3
70°-80°	145.1	6.9
80°-90°	83.1	3.9
90°-100°	46.0	2.2
100°-110°	31.1	1.5
110°-120°	25.9	1.2
120°-130°	21.1	1.0
130°-140°	15.2	0.7
140°-150°	9.2	0.4
150°-160°	4.4	0.2
160°-170°	1.1	0.1
170°-180°	0.0	0.0
0°-30°	619.4	29.3
0°-40°	945.8	44.7
0°-60°	1516.6	71.6
0°-90°	1963.0	92.7
90°-120°	103.0	4.9
90°-150°	148.5	7.0
90°-180°	154.0	7.3
0°-180°	2117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	851	836	841	835	834	81
15°	829	812	805	787	779	234
25°	784	749	691	619	593	361
35°	700	623	495	416	397	437
45°	560	444	337	325	335	431
55°	375	283	263	306	325	333
65°	191	171	214	263	277	193
75°	74	93	144	177	184	81
85°	15	43	85	109	112	17
90°	1	30	67	81	80	1
95°	1	26	53	57	55	1
105°	0	22	38	37	36	0
115°	0	20	34	34	33	0
125°	0	17	30	32	31	0
135°	1	13	24	28	28	1
145°	1	8	16	22	23	0
155°	1	5	10	14	16	0
165°	1	3	5	7	9	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841.8	841.8	841.8	841.8	841.8
2.5°	852.4	838.5	842.9	839.2	834.5
5°	850.6	836.3	840.7	834.9	833.8
7.5°	847.3	833.0	835.6	828.6	826.8
10°	842.9	827.9	828.3	818.4	815.8
12.5°	837.0	820.6	818.4	804.9	801.2
15°	829.4	811.8	804.9	786.6	778.9
17.5°	821.0	800.5	786.2	758.0	746.0
20°	809.6	786.6	761.7	718.9	702.8
22.5°	798.3	769.7	729.9	672.8	651.2
25°	783.6	748.9	691.1	618.6	593.4
27.5°	767.2	724.4	646.4	563.0	536.0
30°	747.8	694.7	597.4	508.5	482.9
32.5°	725.1	661.4	545.8	459.5	435.7
35°	699.9	623.0	495.4	416.0	397.3
37.5°	671.0	581.0	448.5	380.8	368.8
40°	638.0	535.2	405.4	353.8	349.7
42.5°	602.5	490.6	368.4	336.2	339.9
45°	560.5	444.1	337.3	325.2	335.1
47.5°	516.2	398.8	312.1	319.0	333.3
50°	473.4	356.7	292.3	315.0	331.8
52.5°	420.4	319.0	276.6	311.3	329.6
55°	374.6	283.2	263.4	306.2	325.2
57.5°	321.9	251.0	251.7	299.6	318.6
60°	278.0	221.7	240.4	290.5	308.8
62.5°	233.4	195.4	227.9	278.4	294.9
65°	191.3	171.2	214.4	262.7	276.6
67.5°	156.2	149.3	199.0	243.7	255.4
70°	126.6	129.1	182.2	222.4	232.3
72.5°	97.3	110.5	163.9	199.8	208.2
75°	74.3	92.9	144.5	177.1	184.4
77.5°	54.9	77.6	126.9	156.6	162.8
80°	38.8	64.0	110.5	138.7	143.4
82.5°	26.0	52.7	96.9	122.6	126.9
85°	15.0	43.2	85.2	109.0	111.9
87.5°	6.2	35.9	75.7	95.1	96.6
90°	0.7	30.4	67.3	81.2	80.5
92.5°	0.7	27.4	60.0	68.0	66.2
95°	0.7	25.6	53.4	57.1	55.2
97.5°	0.7	24.5	47.6	49.0	47.2
100°	0.4	23.8	43.5	43.5	41.7
102.5°	0.4	23.0	40.6	39.5	38.0
105°	0.4	22.3	38.4	37.3	35.5
107.5°	0.4	22.0	37.0	35.9	34.0
110°	0.4	21.2	35.9	34.8	33.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	20.9	35.1	34.4	32.6
115°	0.4	20.1	34.0	33.7	32.6
117.5°	0.4	19.4	33.3	33.3	32.2
120°	0.4	18.7	32.2	32.9	31.8
122.5°	0.4	17.9	31.1	32.2	31.1
125°	0.4	17.2	30.0	31.5	30.7
127.5°	0.7	16.1	28.5	30.7	30.0
130°	0.4	15.0	27.1	30.0	29.6
132.5°	0.7	13.9	25.6	28.9	28.9
135°	0.7	12.8	23.8	27.8	27.8
137.5°	0.7	11.3	22.0	26.3	26.7
140°	0.7	10.2	20.1	24.9	25.6
142.5°	0.7	9.1	18.3	23.4	24.5
145°	0.7	8.0	16.5	21.6	23.0
147.5°	0.7	7.3	14.6	19.4	21.6
150°	0.7	6.2	13.2	17.6	19.8
152.5°	0.7	5.5	11.7	15.7	18.3
155°	0.7	5.1	10.2	13.5	16.5
157.5°	0.7	4.4	8.8	11.7	14.6
160°	0.7	3.7	7.3	10.2	12.4
162.5°	0.7	3.3	6.2	8.4	11.0
165°	0.7	2.9	5.1	6.6	8.8
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)