

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-L940-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-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

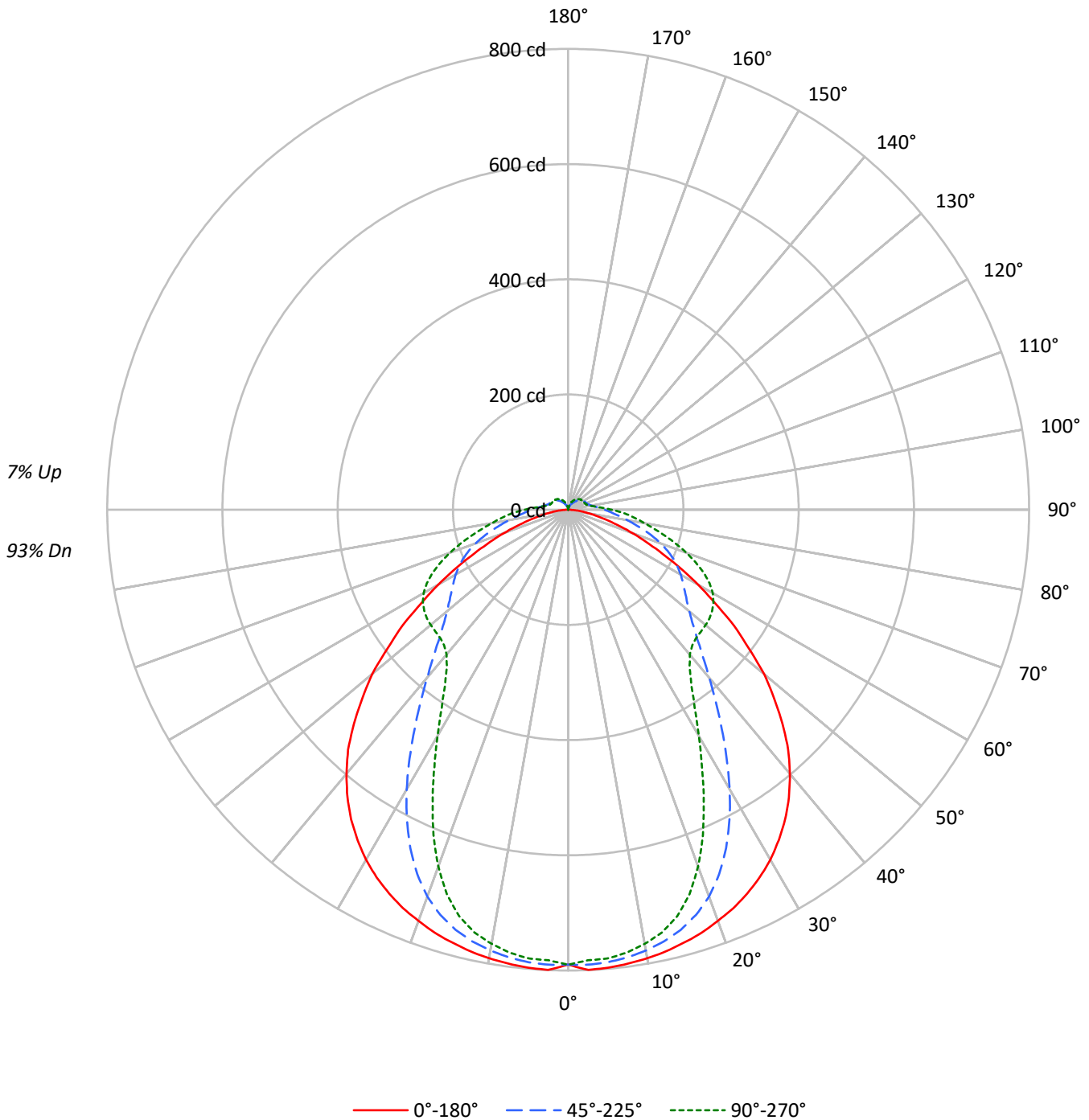
Lumens per Lamp: N/A  
Luminaire Lumens: 1986.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L940-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°	6382	6382	6382
5°	6455	6241	6143
10°	6453	6068	5890
15°	6455	5865	5554
20°	6458	5563	4988
25°	6460	5097	4224
30°	6430	4486	3474
35°	6338	3816	2911
40°	6152	3232	2632
45°	5827	2808	2612
50°	5383	2567	2704
55°	4739	2468	2798
60°	3999	2433	2837
65°	3217	2379	2749
70°	2583	2256	2534
75°	1949	2042	2250
80°	1439	1833	2000
85°	963	1730	1840



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	3.8
10°-20°	211.2	10.6
20°-30°	295.2	14.9
30°-40°	306.2	15.4
40°-50°	282.9	14.2
50°-60°	252.6	12.7
60°-70°	204.7	10.3
70°-80°	136.1	6.9
80°-90°	78.0	3.9
90°-100°	43.1	2.2
100°-110°	29.2	1.5
110°-120°	24.3	1.2
120°-130°	19.8	1.0
130°-140°	14.3	0.7
140°-150°	8.6	0.4
150°-160°	4.1	0.2
160°-170°	1.1	0.1
170°-180°	0.0	0.0
0°-30°	581.1	29.3
0°-40°	887.3	44.7
0°-60°	1422.7	71.6
0°-90°	1841.5	92.7
90°-120°	96.6	4.9
90°-150°	139.2	7.0
90°-180°	144.0	7.3
0°-180°	1986.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	798	785	789	783	782	76
15°	778	762	755	738	731	220
25°	735	702	648	580	557	339
35°	656	584	465	390	373	410
45°	526	417	316	305	314	404
55°	351	266	247	287	305	312
65°	180	161	201	246	260	181
75°	70	87	136	166	173	76
85°	14	40	80	102	105	16
90°	1	28	63	76	76	1
95°	1	24	50	54	52	1
105°	0	21	36	35	33	0
115°	0	19	32	32	30	0
125°	0	16	28	30	29	0
135°	1	12	22	26	26	1
145°	1	8	15	20	22	0
155°	1	5	10	13	15	0
165°	1	3	5	6	8	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-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	789.7	789.7	789.7	789.7	789.7
2.5°	799.7	786.6	790.7	787.3	782.8
5°	797.9	784.6	788.7	783.2	782.2
7.5°	794.9	781.5	783.9	777.4	775.6
10°	790.7	776.7	777.0	767.7	765.3
12.5°	785.3	769.8	767.7	755.0	751.6
15°	778.0	761.6	755.0	737.9	730.7
17.5°	770.2	750.9	737.5	711.1	699.8
20°	759.5	737.9	714.6	674.4	659.3
22.5°	748.9	722.1	684.7	631.2	610.9
25°	735.1	702.5	648.3	580.4	556.7
27.5°	719.7	679.5	606.4	528.2	502.8
30°	701.5	651.7	560.5	477.1	453.0
32.5°	680.2	620.5	512.1	431.1	408.8
35°	656.5	584.5	464.7	390.2	372.7
37.5°	629.4	545.0	420.8	357.3	345.9
40°	598.5	502.1	380.3	331.9	328.1
42.5°	565.3	460.2	345.6	315.4	318.8
45°	525.8	416.6	316.4	305.1	314.4
47.5°	484.3	374.1	292.8	299.3	312.7
50°	444.1	334.6	274.2	295.5	311.3
52.5°	394.3	299.3	259.5	292.1	309.2
55°	351.4	265.6	247.1	287.3	305.1
57.5°	302.0	235.4	236.1	281.1	298.9
60°	260.8	208.0	225.5	272.5	289.7
62.5°	219.0	183.3	213.8	261.2	276.6
65°	179.5	160.6	201.1	246.4	259.5
67.5°	146.5	140.0	186.7	228.6	239.6
70°	118.7	121.2	170.9	208.7	217.9
72.5°	91.3	103.6	153.8	187.4	195.3
75°	69.7	87.2	135.6	166.1	173.0
77.5°	51.5	72.8	119.1	146.9	152.7
80°	36.4	60.1	103.6	130.1	134.5
82.5°	24.4	49.4	90.9	115.0	119.1
85°	14.1	40.5	80.0	102.3	105.0
87.5°	5.8	33.6	71.0	89.2	90.6
90°	0.7	28.5	63.1	76.2	75.5
92.5°	0.7	25.7	56.3	63.8	62.1
95°	0.7	24.0	50.1	53.5	51.8
97.5°	0.7	23.0	44.6	46.0	44.3
100°	0.3	22.3	40.8	40.8	39.1
102.5°	0.3	21.6	38.1	37.1	35.7
105°	0.3	20.9	36.0	35.0	33.3
107.5°	0.3	20.6	34.7	33.6	31.9
110°	0.3	19.9	33.6	32.6	31.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-22SL-SLN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	19.6	32.9	32.3	30.5
115°	0.3	18.9	31.9	31.6	30.5
117.5°	0.3	18.2	31.2	31.2	30.2
120°	0.3	17.5	30.2	30.9	29.9
122.5°	0.3	16.8	29.2	30.2	29.2
125°	0.3	16.1	28.1	29.5	28.8
127.5°	0.7	15.1	26.8	28.8	28.1
130°	0.3	14.1	25.4	28.1	27.8
132.5°	0.7	13.0	24.0	27.1	27.1
135°	0.7	12.0	22.3	26.1	26.1
137.5°	0.7	10.6	20.6	24.7	25.1
140°	0.7	9.6	18.9	23.3	24.0
142.5°	0.7	8.6	17.2	22.0	23.0
145°	0.7	7.6	15.4	20.2	21.6
147.5°	0.7	6.9	13.7	18.2	20.2
150°	0.7	5.8	12.4	16.5	18.5
152.5°	0.7	5.1	11.0	14.8	17.2
155°	0.7	4.8	9.6	12.7	15.4
157.5°	0.7	4.1	8.2	11.0	13.7
160°	0.7	3.4	6.9	9.6	11.7
162.5°	0.7	3.1	5.8	7.9	10.3
165°	0.7	2.7	4.8	6.2	8.2
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)