

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-L830-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-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

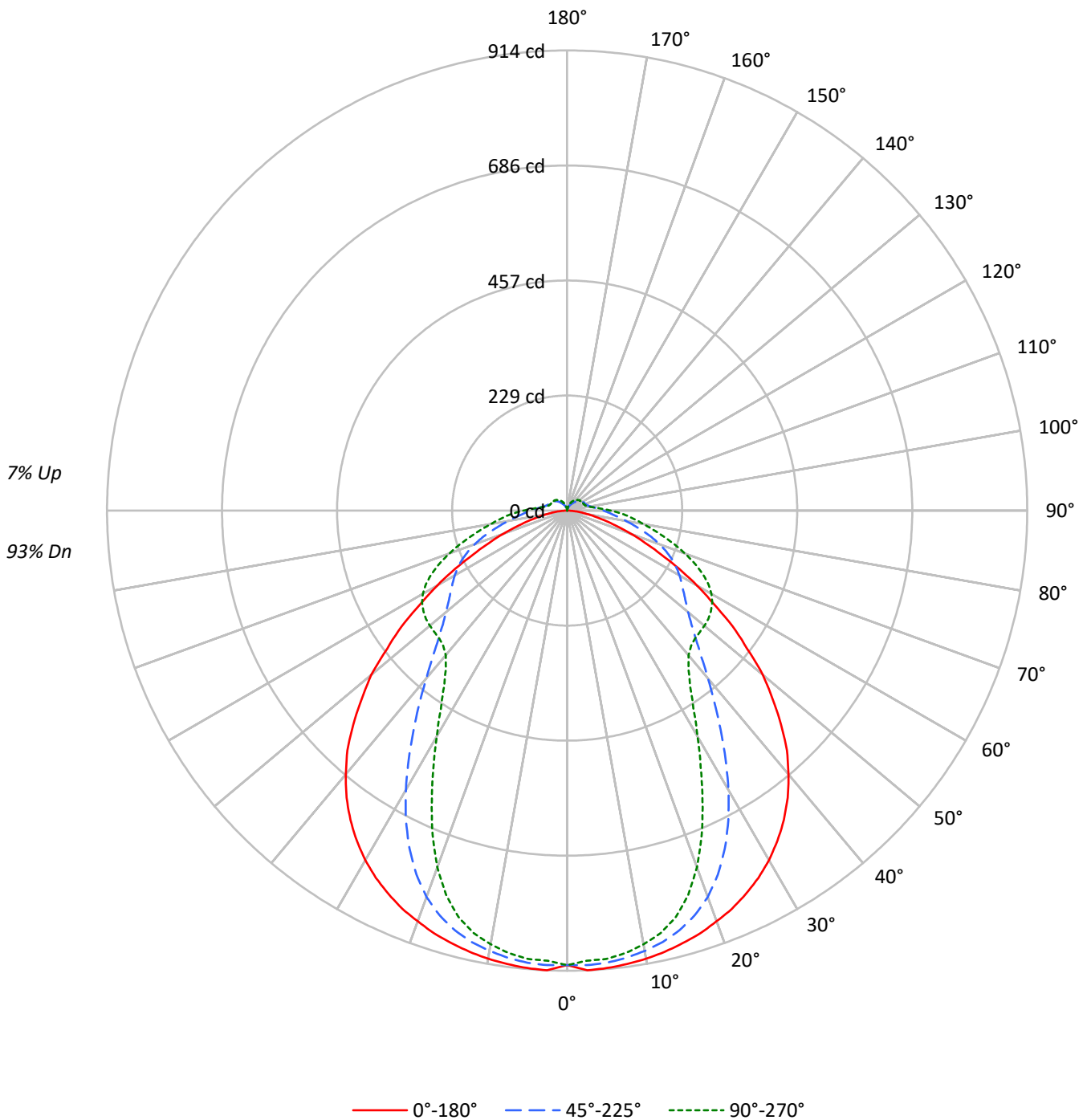
Lumens per Lamp: N/A  
Luminaire Lumens: 2270.0 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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



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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°	7294	7294	7294
5°	7379	7133	7021
10°	7376	6936	6733
15°	7378	6703	6349
20°	7381	6358	5702
25°	7385	5826	4828
30°	7349	5127	3971
35°	7244	4362	3328
40°	7032	3693	3008
45°	6660	3211	2985
50°	6152	2934	3091
55°	5418	2820	3198
60°	4571	2780	3243
65°	3677	2719	3142
70°	2953	2579	2897
75°	2226	2334	2571
80°	1644	2096	2288
85°	1100	1977	2103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	3.8
10°-20°	241.4	10.6
20°-30°	337.4	14.9
30°-40°	350.0	15.4
40°-50°	323.3	14.2
50°-60°	288.7	12.7
60°-70°	234.0	10.3
70°-80°	155.6	6.9
80°-90°	89.1	3.9
90°-100°	49.3	2.2
100°-110°	33.4	1.5
110°-120°	27.8	1.2
120°-130°	22.6	1.0
130°-140°	16.3	0.7
140°-150°	9.8	0.4
150°-160°	4.7	0.2
160°-170°	1.2	0.1
170°-180°	0.0	0.0
0°-30°	664.2	29.3
0°-40°	1014.2	44.7
0°-60°	1626.2	71.6
0°-90°	2104.9	92.7
90°-120°	110.5	4.9
90°-150°	159.2	7.0
90°-180°	165.0	7.3
0°-180°	2270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	912	897	902	895	894	87
15°	889	870	863	843	835	251
25°	840	803	741	663	636	387
35°	750	668	531	446	426	468
45°	601	476	362	349	359	462
55°	402	304	282	328	349	357
65°	205	184	230	282	297	207
75°	80	100	155	190	198	87
85°	16	46	91	117	120	19
90°	1	33	72	87	86	1
95°	1	28	57	61	59	1
105°	0	24	41	40	38	0
115°	0	22	36	36	35	0
125°	0	18	32	34	33	0
135°	1	14	26	30	30	1
145°	1	9	18	23	25	1
155°	1	6	11	14	18	0
165°	1	3	6	7	9	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	902.6	902.6	902.6	902.6	902.6
2.5°	914.0	899.1	903.8	899.9	894.8
5°	912.1	896.8	901.5	895.2	894.0
7.5°	908.5	893.2	896.0	888.5	886.6
10°	903.8	887.7	888.1	877.5	874.8
12.5°	897.5	879.9	877.5	863.0	859.1
15°	889.3	870.5	863.0	843.4	835.2
17.5°	880.3	858.3	843.0	812.8	799.9
20°	868.1	843.4	816.7	770.8	753.6
22.5°	856.0	825.4	782.6	721.4	698.3
25°	840.3	803.0	741.0	663.4	636.3
27.5°	822.6	776.7	693.2	603.7	574.7
30°	801.8	744.9	640.6	545.3	517.8
32.5°	777.5	709.2	585.3	492.7	467.2
35°	750.4	668.1	531.2	446.0	426.0
37.5°	719.4	622.9	480.9	408.4	395.4
40°	684.1	573.9	434.6	379.3	375.0
42.5°	646.1	526.1	395.0	360.5	364.4
45°	601.0	476.2	361.7	348.7	359.3
47.5°	553.5	427.6	334.6	342.1	357.4
50°	507.6	382.5	313.4	337.8	355.8
52.5°	450.7	342.1	296.6	333.8	353.4
55°	401.7	303.6	282.4	328.3	348.7
57.5°	345.2	269.1	269.9	321.3	341.7
60°	298.1	237.7	257.7	311.5	331.1
62.5°	250.3	209.5	244.4	298.5	316.2
65°	205.2	183.6	229.9	281.7	296.6
67.5°	167.5	160.1	213.4	261.3	273.8
70°	135.7	138.5	195.4	238.5	249.1
72.5°	104.3	118.5	175.7	214.2	223.2
75°	79.6	99.6	155.0	189.9	197.7
77.5°	58.8	83.2	136.1	167.9	174.6
80°	41.6	68.6	118.5	148.7	153.8
82.5°	27.9	56.5	104.0	131.4	136.1
85°	16.1	46.3	91.4	116.9	120.0
87.5°	6.7	38.4	81.2	102.0	103.6
90°	0.8	32.6	72.2	87.1	86.3
92.5°	0.8	29.4	64.3	73.0	71.0
95°	0.8	27.5	57.3	61.2	59.2
97.5°	0.8	26.3	51.0	52.6	50.6
100°	0.4	25.5	46.7	46.7	44.7
102.5°	0.4	24.7	43.5	42.4	40.8
105°	0.4	23.9	41.2	40.0	38.1
107.5°	0.4	23.5	39.6	38.4	36.5
110°	0.4	22.8	38.4	37.3	35.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	22.4	37.7	36.9	34.9
115°	0.4	21.6	36.5	36.1	34.9
117.5°	0.4	20.8	35.7	35.7	34.5
120°	0.4	20.0	34.5	35.3	34.1
122.5°	0.4	19.2	33.3	34.5	33.3
125°	0.4	18.4	32.2	33.7	33.0
127.5°	0.8	17.3	30.6	33.0	32.2
130°	0.4	16.1	29.0	32.2	31.8
132.5°	0.8	14.9	27.5	31.0	31.0
135°	0.8	13.7	25.5	29.8	29.8
137.5°	0.8	12.2	23.5	28.2	28.6
140°	0.8	11.0	21.6	26.7	27.5
142.5°	0.8	9.8	19.6	25.1	26.3
145°	0.8	8.6	17.7	23.1	24.7
147.5°	0.8	7.8	15.7	20.8	23.1
150°	0.8	6.7	14.1	18.8	21.2
152.5°	0.8	5.9	12.6	16.9	19.6
155°	0.8	5.5	11.0	14.5	17.7
157.5°	0.8	4.7	9.4	12.6	15.7
160°	0.8	3.9	7.8	11.0	13.3
162.5°	0.8	3.5	6.7	9.0	11.8
165°	0.8	3.1	5.5	7.1	9.4
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)