

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

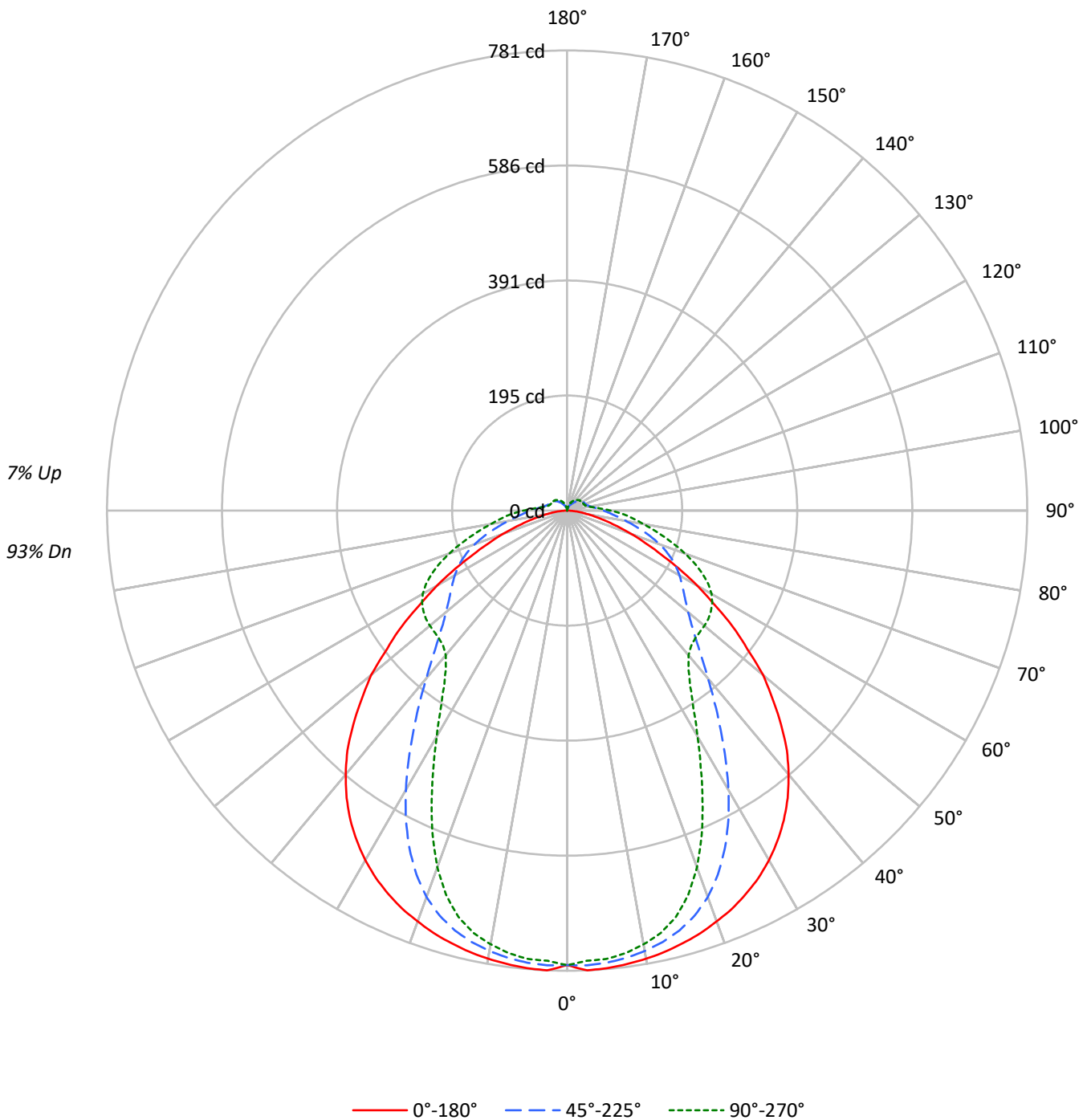
Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



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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°	6234	6234	6234
5°	6306	6096	6000
10°	6303	5928	5754
15°	6305	5729	5426
20°	6308	5434	4872
25°	6311	4979	4126
30°	6281	4381	3394
35°	6191	3727	2844
40°	6010	3157	2571
45°	5692	2744	2552
50°	5258	2508	2641
55°	4630	2411	2733
60°	3907	2377	2772
65°	3141	2324	2685
70°	2524	2204	2476
75°	1904	1994	2198
80°	1403	1790	1954
85°	936	1689	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.8
10°-20°	206.3	10.6
20°-30°	288.4	14.9
30°-40°	299.1	15.4
40°-50°	276.3	14.2
50°-60°	246.7	12.7
60°-70°	199.9	10.3
70°-80°	133.0	6.9
80°-90°	76.2	3.9
90°-100°	42.1	2.2
100°-110°	28.5	1.5
110°-120°	23.7	1.2
120°-130°	19.3	1.0
130°-140°	13.9	0.7
140°-150°	8.4	0.4
150°-160°	4.0	0.2
160°-170°	1.0	0.1
170°-180°	0.0	0.0
0°-30°	567.6	29.3
0°-40°	866.7	44.7
0°-60°	1389.8	71.6
0°-90°	1798.9	92.7
90°-120°	94.4	4.9
90°-150°	136.1	7.0
90°-180°	141.0	7.3
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	780	766	770	765	764	74
15°	760	744	738	721	714	215
25°	718	686	633	567	544	331
35°	641	571	454	381	364	400
45°	514	407	309	298	307	395
55°	343	260	241	281	298	305
65°	175	157	196	241	254	177
75°	68	85	132	162	169	75
85°	14	40	78	100	103	16
90°	1	28	62	74	74	1
95°	1	24	49	52	51	1
105°	0	20	35	34	32	0
115°	0	18	31	31	30	0
125°	0	16	28	29	28	0
135°	1	12	22	26	26	1
145°	1	7	15	20	21	0
155°	1	5	9	12	15	0
165°	1	3	5	6	8	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°	771.4	771.4	771.4	771.4	771.4
2.5°	781.1	768.4	772.4	769.1	764.7
5°	779.5	766.4	770.4	765.1	764.0
7.5°	776.5	763.4	765.7	759.4	757.7
10°	772.4	758.7	759.0	750.0	747.6
12.5°	767.1	752.0	750.0	737.6	734.2
15°	760.0	743.9	737.6	720.8	713.8
17.5°	752.3	733.5	720.5	694.6	683.6
20°	741.9	720.8	698.0	658.8	644.0
22.5°	731.5	705.4	668.8	616.5	596.8
25°	718.1	686.3	633.3	566.9	543.8
27.5°	703.0	663.8	592.4	516.0	491.1
30°	685.3	636.6	547.5	466.0	442.5
32.5°	664.5	606.1	500.2	421.1	399.3
35°	641.3	570.9	453.9	381.2	364.1
37.5°	614.9	532.4	411.0	349.0	337.9
40°	584.7	490.5	371.5	324.2	320.5
42.5°	552.2	449.6	337.6	308.1	311.5
45°	513.6	407.0	309.1	298.0	307.1
47.5°	473.0	365.4	286.0	292.3	305.4
50°	433.8	326.9	267.9	288.7	304.1
52.5°	385.2	292.3	253.5	285.3	302.1
55°	343.3	259.5	241.4	280.6	298.0
57.5°	295.0	230.0	230.7	274.6	292.0
60°	254.8	203.2	220.3	266.2	283.0
62.5°	213.9	179.0	208.9	255.1	270.2
65°	175.3	156.9	196.5	240.7	253.5
67.5°	143.2	136.8	182.4	223.3	234.0
70°	116.0	118.3	167.0	203.8	212.9
72.5°	89.2	101.2	150.2	183.0	190.8
75°	68.1	85.2	132.4	162.3	169.0
77.5°	50.3	71.1	116.3	143.5	149.2
80°	35.5	58.7	101.2	127.1	131.4
82.5°	23.8	48.3	88.8	112.3	116.3
85°	13.7	39.6	78.1	99.9	102.6
87.5°	5.7	32.9	69.4	87.2	88.5
90°	0.7	27.8	61.7	74.4	73.8
92.5°	0.7	25.1	55.0	62.4	60.7
95°	0.7	23.5	48.9	52.3	50.6
97.5°	0.7	22.5	43.6	44.9	43.2
100°	0.3	21.8	39.9	39.9	38.2
102.5°	0.3	21.1	37.2	36.2	34.9
105°	0.3	20.5	35.2	34.2	32.5
107.5°	0.3	20.1	33.9	32.9	31.2
110°	0.3	19.4	32.9	31.8	30.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	19.1	32.2	31.5	29.8
115°	0.3	18.4	31.2	30.8	29.8
117.5°	0.3	17.8	30.5	30.5	29.5
120°	0.3	17.1	29.5	30.2	29.2
122.5°	0.3	16.4	28.5	29.5	28.5
125°	0.3	15.8	27.5	28.8	28.2
127.5°	0.7	14.8	26.1	28.2	27.5
130°	0.3	13.7	24.8	27.5	27.2
132.5°	0.7	12.7	23.5	26.5	26.5
135°	0.7	11.7	21.8	25.5	25.5
137.5°	0.7	10.4	20.1	24.1	24.5
140°	0.7	9.4	18.4	22.8	23.5
142.5°	0.7	8.4	16.8	21.5	22.5
145°	0.7	7.4	15.1	19.8	21.1
147.5°	0.7	6.7	13.4	17.8	19.8
150°	0.7	5.7	12.1	16.1	18.1
152.5°	0.7	5.0	10.7	14.4	16.8
155°	0.7	4.7	9.4	12.4	15.1
157.5°	0.7	4.0	8.0	10.7	13.4
160°	0.7	3.4	6.7	9.4	11.4
162.5°	0.7	3.0	5.7	7.7	10.1
165°	0.7	2.7	4.7	6.0	8.0
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)