

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-L835-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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

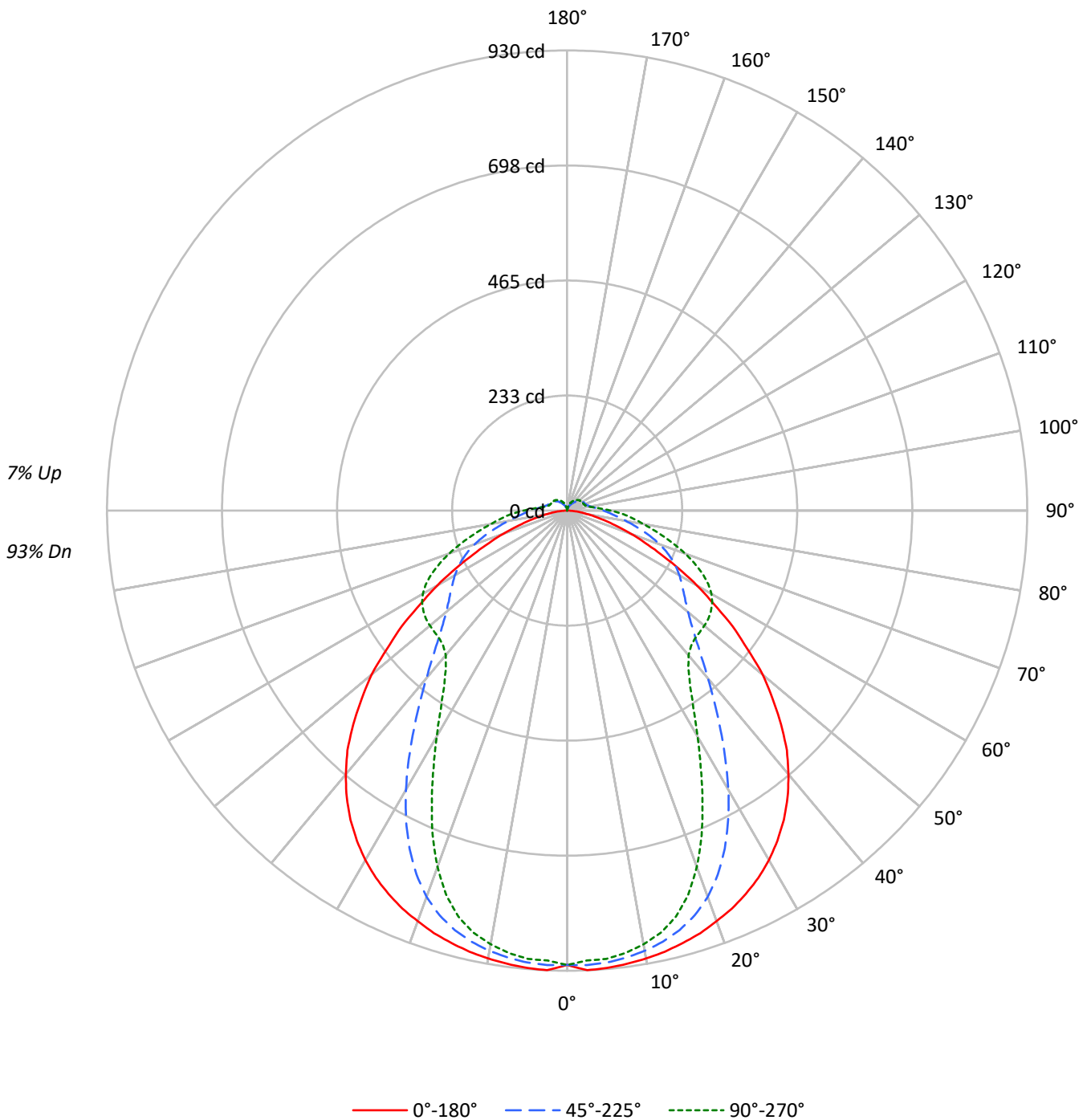
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	7420	7420	7420
5°	7505	7256	7142
10°	7502	7055	6848
15°	7505	6818	6457
20°	7508	6468	5799
25°	7511	5927	4911
30°	7476	5215	4039
35°	7369	4437	3385
40°	7153	3757	3060
45°	6774	3266	3037
50°	6258	2985	3143
55°	5511	2869	3253
60°	4650	2829	3299
65°	3740	2765	3196
70°	3005	2623	2947
75°	2265	2374	2615
80°	1672	2132	2326
85°	1120	2012	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.8
10°-20°	245.5	10.6
20°-30°	343.2	14.9
30°-40°	356.0	15.4
40°-50°	328.9	14.2
50°-60°	293.6	12.7
60°-70°	238.0	10.3
70°-80°	158.3	6.9
80°-90°	90.6	3.9
90°-100°	50.1	2.2
100°-110°	33.9	1.5
110°-120°	28.3	1.2
120°-130°	23.0	1.0
130°-140°	16.6	0.7
140°-150°	10.0	0.4
150°-160°	4.8	0.2
160°-170°	1.2	0.1
170°-180°	0.0	0.0
0°-30°	675.6	29.3
0°-40°	1031.6	44.7
0°-60°	1654.1	71.6
0°-90°	2141.0	92.7
90°-120°	112.3	4.9
90°-150°	161.9	7.0
90°-180°	168.0	7.3
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	928	912	917	911	909	88
15°	905	885	878	858	850	256
25°	855	817	754	675	647	394
35°	763	680	540	454	433	476
45°	611	484	368	355	366	470
55°	409	309	287	334	355	363
65°	209	187	234	286	302	211
75°	81	101	158	193	201	89
85°	16	47	93	119	122	19
90°	1	33	73	89	88	1
95°	1	28	58	62	60	1
105°	0	24	42	41	39	0
115°	0	22	37	37	36	0
125°	0	19	33	34	34	0
135°	1	14	26	30	30	1
145°	1	9	18	24	25	1
155°	1	6	11	15	18	0
165°	1	3	6	7	10	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°	918.2	918.2	918.2	918.2	918.2
2.5°	929.7	914.6	919.3	915.4	910.2
5°	927.7	912.2	917.0	910.6	909.4
7.5°	924.1	908.6	911.4	903.8	901.8
10°	919.3	903.0	903.4	892.6	889.8
12.5°	913.0	895.0	892.6	877.8	873.9
15°	904.6	885.4	877.8	857.9	849.5
17.5°	895.4	873.1	857.5	826.8	813.6
20°	883.0	857.9	830.8	784.1	766.5
22.5°	870.7	839.5	796.0	733.8	710.3
25°	854.7	816.8	753.8	674.7	647.2
27.5°	836.8	790.1	705.1	614.1	584.6
30°	815.6	757.7	651.6	554.6	526.7
32.5°	790.9	721.4	595.3	501.2	475.2
35°	763.3	679.5	540.3	453.7	433.3
37.5°	731.8	633.6	489.2	415.4	402.2
40°	695.9	583.8	442.1	385.9	381.5
42.5°	657.2	535.1	401.8	366.7	370.7
45°	611.3	484.4	367.9	354.7	365.5
47.5°	563.0	434.9	340.4	347.9	363.5
50°	516.3	389.0	318.8	343.6	361.9
52.5°	458.5	347.9	301.7	339.6	359.5
55°	408.6	308.8	287.3	334.0	354.7
57.5°	351.1	273.7	274.5	326.8	347.5
60°	303.3	241.8	262.2	316.8	336.8
62.5°	254.6	213.1	248.6	303.7	321.6
65°	208.7	186.7	233.8	286.5	301.7
67.5°	170.4	162.8	217.1	265.7	278.5
70°	138.1	140.9	198.7	242.6	253.4
72.5°	106.1	120.5	178.8	217.9	227.0
75°	81.0	101.4	157.6	193.1	201.1
77.5°	59.9	84.6	138.5	170.8	177.6
80°	42.3	69.8	120.5	151.2	156.4
82.5°	28.3	57.5	105.7	133.7	138.5
85°	16.4	47.1	93.0	118.9	122.1
87.5°	6.8	39.1	82.6	103.7	105.3
90°	0.8	33.1	73.4	88.6	87.8
92.5°	0.8	29.9	65.4	74.2	72.2
95°	0.8	27.9	58.3	62.2	60.3
97.5°	0.8	26.7	51.9	53.5	51.5
100°	0.4	25.9	47.5	47.5	45.5
102.5°	0.4	25.1	44.3	43.1	41.5
105°	0.4	24.3	41.9	40.7	38.7
107.5°	0.4	23.9	40.3	39.1	37.1
110°	0.4	23.1	39.1	37.9	36.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	22.7	38.3	37.5	35.5
115°	0.4	21.9	37.1	36.7	35.5
117.5°	0.4	21.1	36.3	36.3	35.1
120°	0.4	20.4	35.1	35.9	34.7
122.5°	0.4	19.6	33.9	35.1	33.9
125°	0.4	18.8	32.7	34.3	33.5
127.5°	0.8	17.6	31.1	33.5	32.7
130°	0.4	16.4	29.5	32.7	32.3
132.5°	0.8	15.2	27.9	31.5	31.5
135°	0.8	14.0	25.9	30.3	30.3
137.5°	0.8	12.4	23.9	28.7	29.1
140°	0.8	11.2	21.9	27.1	27.9
142.5°	0.8	10.0	20.0	25.5	26.7
145°	0.8	8.8	18.0	23.5	25.1
147.5°	0.8	8.0	16.0	21.1	23.5
150°	0.8	6.8	14.4	19.2	21.5
152.5°	0.8	6.0	12.8	17.2	20.0
155°	0.8	5.6	11.2	14.8	18.0
157.5°	0.8	4.8	9.6	12.8	16.0
160°	0.8	4.0	8.0	11.2	13.6
162.5°	0.8	3.6	6.8	9.2	12.0
165°	0.8	3.2	5.6	7.2	9.6
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)