

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

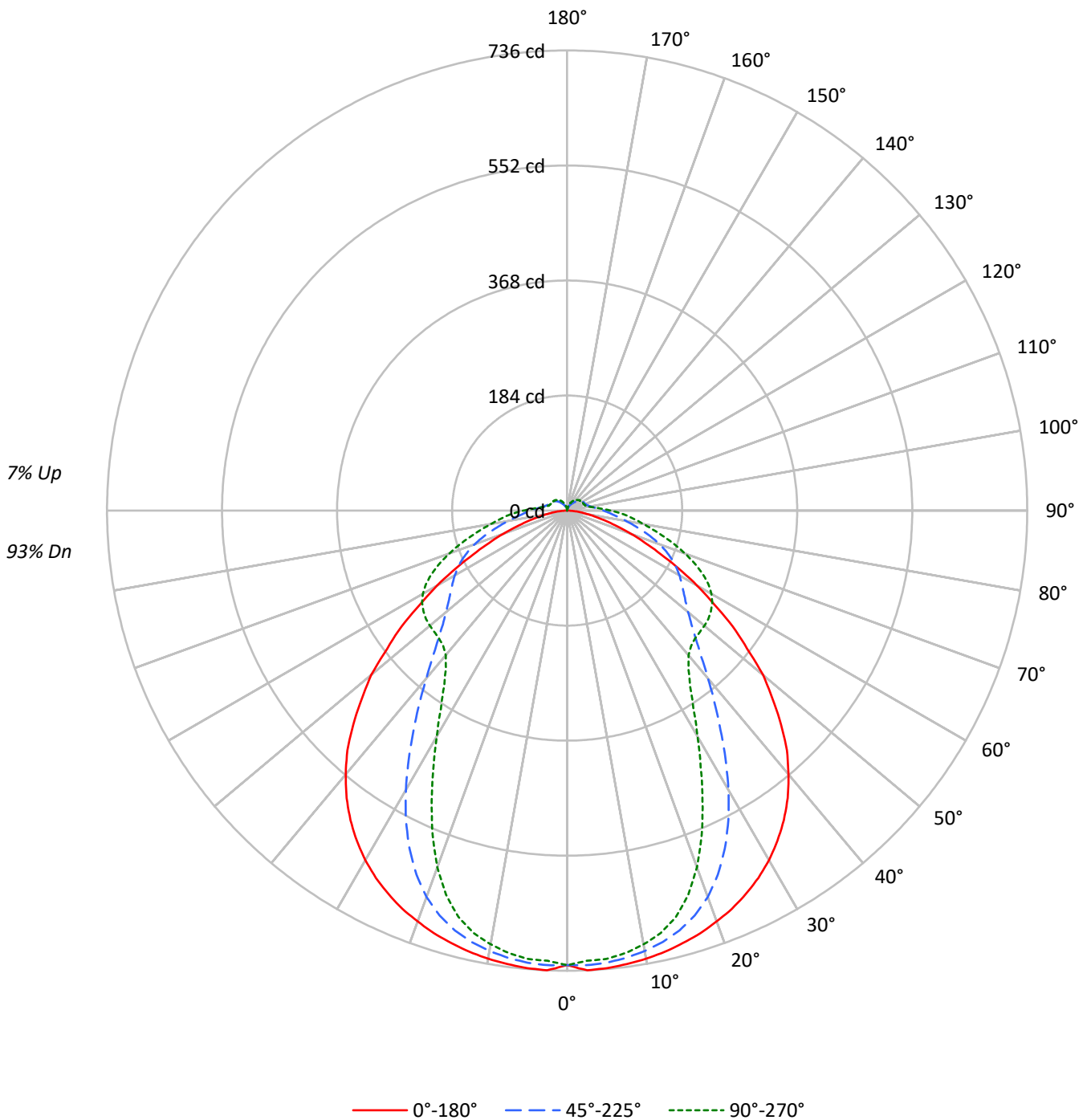
Lumens per Lamp: N/A
Luminaire Lumens: 1828.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	5874	5874	5874
5°	5942	5744	5654
10°	5939	5586	5422
15°	5941	5399	5113
20°	5944	5120	4591
25°	5947	4691	3888
30°	5918	4129	3198
35°	5834	3512	2680
40°	5663	2975	2423
45°	5364	2586	2405
50°	4955	2363	2489
55°	4363	2271	2575
60°	3681	2239	2611
65°	2960	2189	2530
70°	2378	2076	2333
75°	1792	1880	2070
80°	1324	1688	1841
85°	888	1592	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.8
10°-20°	194.4	10.6
20°-30°	271.7	14.9
30°-40°	281.8	15.4
40°-50°	260.4	14.2
50°-60°	232.5	12.7
60°-70°	188.4	10.3
70°-80°	125.3	6.9
80°-90°	71.8	3.9
90°-100°	39.7	2.2
100°-110°	26.9	1.5
110°-120°	22.4	1.2
120°-130°	18.2	1.0
130°-140°	13.1	0.7
140°-150°	7.9	0.4
150°-160°	3.8	0.2
160°-170°	1.0	0.1
170°-180°	0.0	0.0
0°-30°	534.9	29.3
0°-40°	816.7	44.7
0°-60°	1309.5	71.6
0°-90°	1695.0	92.7
90°-120°	89.0	4.9
90°-150°	128.2	7.0
90°-180°	133.0	7.3
0°-180°	1828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	734	722	726	721	720	70
15°	716	701	695	679	673	202
25°	677	647	597	534	512	312
35°	604	538	428	359	343	377
45°	484	384	291	281	289	372
55°	324	244	227	264	281	288
65°	165	148	185	227	239	167
75°	64	80	125	153	159	70
85°	13	37	74	94	97	15
90°	1	26	58	70	70	1
95°	1	22	46	49	48	0
105°	0	19	33	32	31	0
115°	0	17	29	29	28	0
125°	0	15	26	27	26	0
135°	1	11	20	24	24	0
145°	1	7	14	19	20	0
155°	1	4	9	12	14	0
165°	1	2	4	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°	726.9	726.9	726.9	726.9	726.9
2.5°	736.0	724.0	727.8	724.7	720.6
5°	734.5	722.1	725.9	720.9	719.9
7.5°	731.6	719.3	721.5	715.5	713.9
10°	727.8	714.9	715.2	706.7	704.5
12.5°	722.8	708.6	706.7	695.0	691.8
15°	716.1	701.0	695.0	679.2	672.6
17.5°	708.9	691.2	678.9	654.5	644.1
20°	699.1	679.2	657.7	620.7	606.8
22.5°	689.3	664.7	630.2	580.9	562.3
25°	676.7	646.6	596.7	534.2	512.4
27.5°	662.4	625.5	558.2	486.2	462.8
30°	645.7	599.9	515.9	439.1	417.0
32.5°	626.1	571.1	471.3	396.8	376.2
35°	604.3	538.0	427.7	359.2	343.1
37.5°	579.4	501.6	387.3	328.9	318.4
40°	550.9	462.2	350.0	305.5	302.0
42.5°	520.3	423.6	318.1	290.3	293.5
45°	484.0	383.5	291.3	280.8	289.4
47.5°	445.7	344.3	269.5	275.5	287.8
50°	408.8	308.0	252.4	272.0	286.5
52.5°	363.0	275.5	238.8	268.8	284.6
55°	323.5	244.5	227.4	264.4	280.8
57.5°	278.0	216.7	217.3	258.7	275.1
60°	240.1	191.4	207.5	250.8	266.6
62.5°	201.5	168.7	196.8	240.4	254.6
65°	165.2	147.8	185.1	226.8	238.8
67.5°	134.9	128.9	171.8	210.4	220.5
70°	109.3	111.5	157.3	192.1	200.6
72.5°	84.0	95.4	141.5	172.5	179.7
75°	64.1	80.2	124.8	152.9	159.2
77.5°	47.4	67.0	109.6	135.2	140.6
80°	33.5	55.3	95.4	119.7	123.8
82.5°	22.4	45.5	83.7	105.8	109.6
85°	13.0	37.3	73.6	94.1	96.7
87.5°	5.4	31.0	65.4	82.1	83.4
90°	0.6	26.2	58.1	70.1	69.5
92.5°	0.6	23.7	51.8	58.8	57.2
95°	0.6	22.1	46.1	49.3	47.7
97.5°	0.6	21.2	41.1	42.3	40.8
100°	0.3	20.5	37.6	37.6	36.0
102.5°	0.3	19.9	35.1	34.1	32.9
105°	0.3	19.3	33.2	32.2	30.6
107.5°	0.3	19.0	31.9	31.0	29.4
110°	0.3	18.3	31.0	30.0	28.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	18.0	30.3	29.7	28.1
115°	0.3	17.4	29.4	29.1	28.1
117.5°	0.3	16.7	28.7	28.7	27.8
120°	0.3	16.1	27.8	28.4	27.5
122.5°	0.3	15.5	26.9	27.8	26.9
125°	0.3	14.8	25.9	27.2	26.5
127.5°	0.6	13.9	24.6	26.5	25.9
130°	0.3	13.0	23.4	25.9	25.6
132.5°	0.6	12.0	22.1	25.0	25.0
135°	0.6	11.1	20.5	24.0	24.0
137.5°	0.6	9.8	19.0	22.7	23.1
140°	0.6	8.8	17.4	21.5	22.1
142.5°	0.6	7.9	15.8	20.2	21.2
145°	0.6	6.9	14.2	18.6	19.9
147.5°	0.6	6.3	12.6	16.7	18.6
150°	0.6	5.4	11.4	15.2	17.1
152.5°	0.6	4.7	10.1	13.6	15.8
155°	0.6	4.4	8.8	11.7	14.2
157.5°	0.6	3.8	7.6	10.1	12.6
160°	0.6	3.2	6.3	8.8	10.7
162.5°	0.6	2.8	5.4	7.3	9.5
165°	0.6	2.5	4.4	5.7	7.6
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)