

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-LD5-18SL-SLN-UNV-L840-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-LD5-18SL-SLN-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

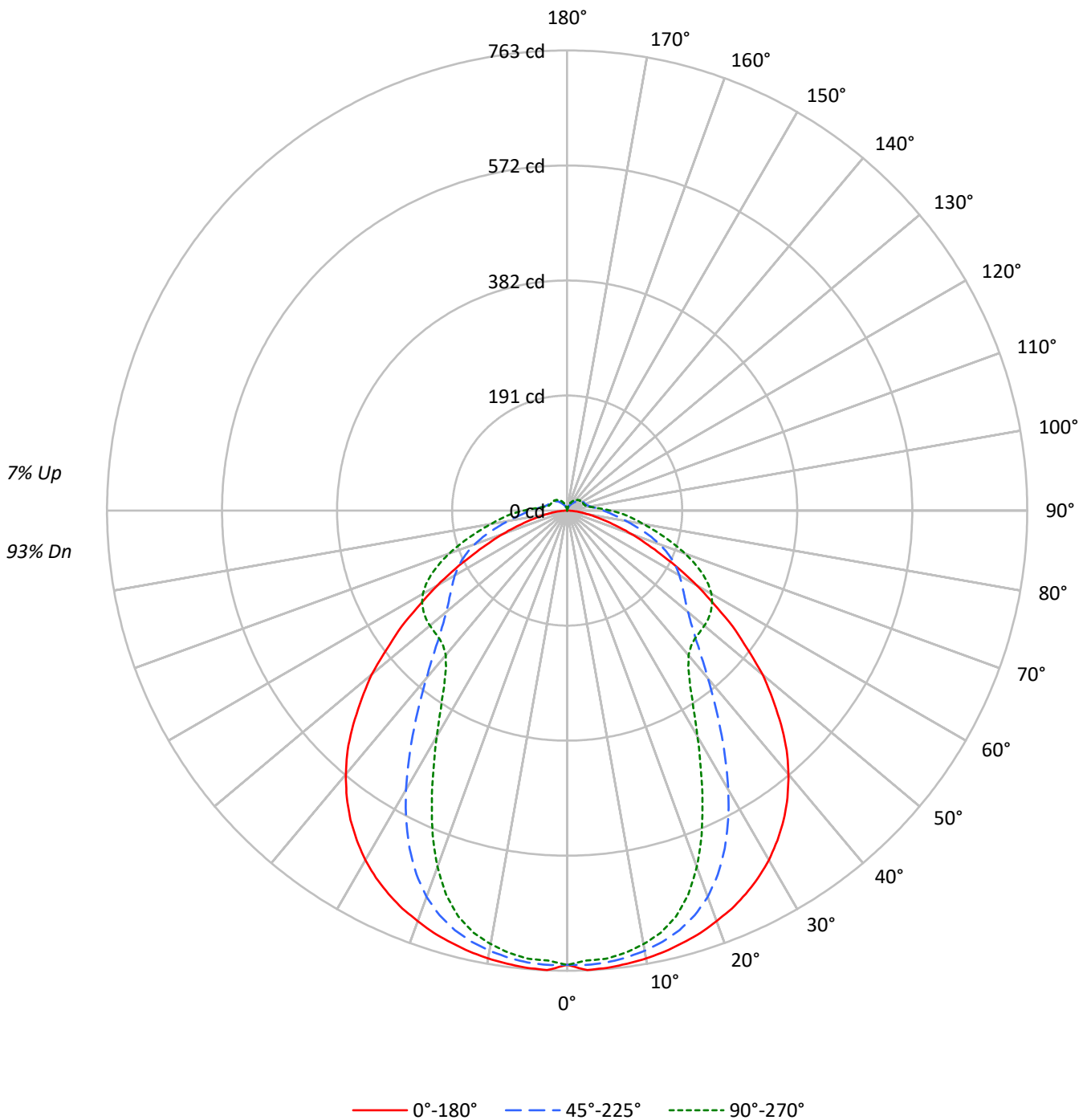
Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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°	6086	6086	6086
5°	6156	5951	5858
10°	6154	5787	5618
15°	6156	5593	5297
20°	6159	5305	4757
25°	6162	4861	4029
30°	6132	4277	3313
35°	6044	3639	2777
40°	5868	3082	2510
45°	5557	2679	2491
50°	5133	2449	2579
55°	4521	2354	2669
60°	3815	2320	2705
65°	3068	2269	2621
70°	2463	2152	2417
75°	1857	1947	2146
80°	1372	1748	1908
85°	915	1650	1756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.8
10°-20°	201.4	10.6
20°-30°	281.5	14.9
30°-40°	292.0	15.4
40°-50°	269.8	14.2
50°-60°	240.9	12.7
60°-70°	195.2	10.3
70°-80°	129.8	6.9
80°-90°	74.3	3.9
90°-100°	41.1	2.2
100°-110°	27.8	1.5
110°-120°	23.2	1.2
120°-130°	18.8	1.0
130°-140°	13.6	0.7
140°-150°	8.2	0.4
150°-160°	3.9	0.2
160°-170°	1.0	0.1
170°-180°	0.0	0.0
0°-30°	554.2	29.3
0°-40°	846.2	44.7
0°-60°	1356.8	71.6
0°-90°	1756.2	92.7
90°-120°	92.2	4.9
90°-150°	132.8	7.0
90°-180°	138.0	7.3
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	761	748	752	747	746	72
15°	742	726	720	704	697	210
25°	701	670	618	554	531	323
35°	626	557	443	372	356	391
45°	501	397	302	291	300	386
55°	335	253	236	274	291	298
65°	171	153	192	235	247	173
75°	66	83	129	158	165	73
85°	13	39	76	98	100	15
90°	1	27	60	73	72	1
95°	1	23	48	51	49	1
105°	0	20	34	33	32	0
115°	0	18	30	30	29	0
125°	0	15	27	28	28	0
135°	1	12	21	25	25	1
145°	1	7	15	19	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°	753.1	753.1	753.1	753.1	753.1
2.5°	762.6	750.2	754.1	750.8	746.6
5°	761.0	748.2	752.1	746.9	745.9
7.5°	758.0	745.3	747.6	741.3	739.7
10°	754.1	740.7	741.0	732.2	729.9
12.5°	748.9	734.1	732.2	720.1	716.8
15°	742.0	726.3	720.1	703.7	696.8
17.5°	734.5	716.1	703.4	678.2	667.4
20°	724.3	703.7	681.5	643.2	628.8
22.5°	714.2	688.7	653.0	601.9	582.6
25°	701.1	670.0	618.3	553.5	530.9
27.5°	686.4	648.1	578.3	503.7	479.5
30°	669.0	621.6	534.5	455.0	432.0
32.5°	648.7	591.8	488.3	411.1	389.8
35°	626.1	557.4	443.2	372.1	355.5
37.5°	600.3	519.8	401.3	340.7	329.9
40°	570.8	478.8	362.7	316.5	312.9
42.5°	539.1	438.9	329.6	300.8	304.1
45°	501.4	397.3	301.8	291.0	299.8
47.5°	461.8	356.8	279.2	285.4	298.2
50°	423.5	319.1	261.5	281.8	296.9
52.5°	376.1	285.4	247.4	278.5	294.9
55°	335.2	253.3	235.7	274.0	291.0
57.5°	288.0	224.5	225.2	268.1	285.1
60°	248.8	198.3	215.0	259.9	276.2
62.5°	208.8	174.8	203.9	249.1	263.8
65°	171.2	153.2	191.8	235.0	247.4
67.5°	139.8	133.5	178.1	218.0	228.5
70°	113.2	115.5	163.0	199.0	207.8
72.5°	87.1	98.8	146.6	178.7	186.2
75°	66.4	83.1	129.3	158.4	165.0
77.5°	49.1	69.4	113.6	140.1	145.7
80°	34.7	57.3	98.8	124.0	128.3
82.5°	23.2	47.1	86.7	109.6	113.6
85°	13.4	38.6	76.3	97.5	100.2
87.5°	5.6	32.1	67.8	85.1	86.4
90°	0.7	27.2	60.2	72.7	72.0
92.5°	0.7	24.5	53.7	60.9	59.2
95°	0.7	22.9	47.8	51.1	49.4
97.5°	0.7	21.9	42.5	43.9	42.2
100°	0.3	21.3	38.9	38.9	37.3
102.5°	0.3	20.6	36.3	35.3	34.0
105°	0.3	20.0	34.4	33.4	31.7
107.5°	0.3	19.6	33.1	32.1	30.4
110°	0.3	19.0	32.1	31.1	29.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	18.7	31.4	30.8	29.1
115°	0.3	18.0	30.4	30.1	29.1
117.5°	0.3	17.3	29.8	29.8	28.8
120°	0.3	16.7	28.8	29.5	28.5
122.5°	0.3	16.0	27.8	28.8	27.8
125°	0.3	15.4	26.8	28.1	27.5
127.5°	0.7	14.4	25.5	27.5	26.8
130°	0.3	13.4	24.2	26.8	26.5
132.5°	0.7	12.4	22.9	25.9	25.9
135°	0.7	11.5	21.3	24.9	24.9
137.5°	0.7	10.1	19.6	23.6	23.9
140°	0.7	9.2	18.0	22.3	22.9
142.5°	0.7	8.2	16.4	20.9	21.9
145°	0.7	7.2	14.7	19.3	20.6
147.5°	0.7	6.5	13.1	17.3	19.3
150°	0.7	5.6	11.8	15.7	17.7
152.5°	0.7	4.9	10.5	14.1	16.4
155°	0.7	4.6	9.2	12.1	14.7
157.5°	0.7	3.9	7.9	10.5	13.1
160°	0.7	3.3	6.5	9.2	11.1
162.5°	0.7	2.9	5.6	7.5	9.8
165°	0.7	2.6	4.6	5.9	7.9
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)