

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

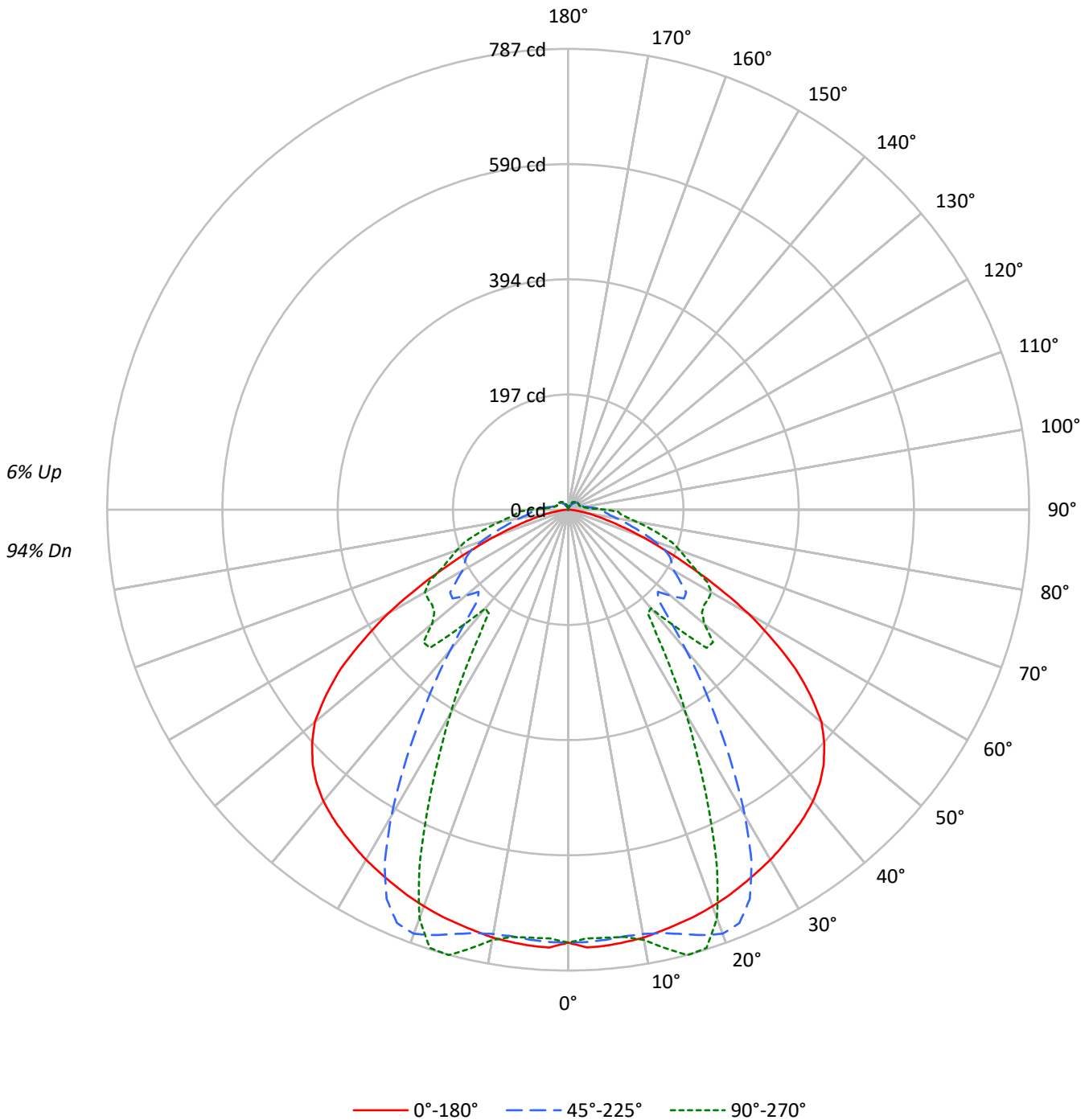
Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U

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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5974	5974	5974
5°	6046	5834	5762
10°	6054	5746	5742
15°	6071	5827	5985
20°	6127	6000	5618
25°	6204	5766	4326
30°	6326	4830	3077
35°	6483	3658	2083
40°	6681	2659	1764
45°	6832	1929	2774
50°	6842	2136	2632
55°	6395	2458	2599
60°	5449	2250	2763
65°	4098	2269	2528
70°	2877	2064	2352
75°	1885	1731	2111
80°	1202	1482	1757
85°	649	1408	1577



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.7
10°-20°	212.4	11.2
20°-30°	308.5	16.2
30°-40°	294.8	15.5
40°-50°	269.7	14.2
50°-60°	249.0	13.1
60°-70°	197.8	10.4
70°-80°	122.1	6.4
80°-90°	66.5	3.5
90°-100°	33.6	1.8
100°-110°	21.1	1.1
110°-120°	17.9	0.9
120°-130°	14.6	0.8
130°-140°	10.5	0.6
140°-150°	6.5	0.3
150°-160°	3.1	0.2
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	591.3	31.1
0°-40°	886.1	46.7
0°-60°	1404.7	74.0
0°-90°	1791.0	94.3
90°-120°	72.6	3.8
90°-150°	104.2	5.5
90°-180°	108.0	5.7
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	747	736	737	733	734	71
15°	732	722	750	778	787	207
25°	706	720	733	621	570	326
35°	672	661	445	307	267	421
45°	616	430	217	277	334	474
55°	474	221	246	265	283	418
65°	229	143	192	233	239	231
75°	67	76	115	152	162	76
85°	10	32	65	89	90	12
90°	0	24	58	69	64	0
95°	0	23	40	36	34	0
105°	0	20	25	23	22	0
115°	0	17	24	21	20	0
125°	0	13	21	21	20	0
135°	0	10	17	19	18	0
145°	0	6	12	15	16	0
155°	1	4	7	10	12	0
165°	1	2	4	5	6	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.3	739.3	739.3	739.3	739.3
2.5°	748.4	737.6	738.9	736.6	732.7
5°	747.4	736.0	737.3	733.4	733.7
7.5°	744.8	733.0	734.7	734.0	735.7
10°	741.9	729.4	735.7	741.2	746.1
12.5°	736.6	725.5	740.6	756.9	767.1
15°	731.7	721.9	750.1	777.9	787.4
17.5°	726.8	720.6	761.8	786.1	784.8
20°	720.6	720.0	770.7	762.5	742.5
22.5°	713.7	720.3	763.8	703.9	664.6
25°	705.9	719.6	733.4	620.8	570.1
27.5°	698.0	716.7	678.1	529.8	479.8
30°	690.2	708.8	603.5	446.7	401.2
32.5°	681.0	691.8	522.3	373.1	331.2
35°	671.5	660.7	445.4	306.6	266.7
37.5°	661.7	615.9	376.3	248.4	222.9
40°	649.9	559.6	312.9	213.0	219.9
42.5°	635.2	496.1	256.9	223.5	271.3
45°	616.5	430.0	217.3	277.2	333.8
47.5°	593.0	366.5	207.5	317.4	335.1
50°	564.5	308.3	228.1	304.3	303.0
52.5°	521.3	259.8	249.0	277.5	288.0
55°	474.2	220.6	246.1	264.7	283.4
57.5°	414.6	194.1	225.8	262.1	283.7
60°	355.4	176.4	208.5	261.8	282.1
62.5°	289.9	160.4	199.6	255.6	267.7
65°	228.7	143.0	191.8	233.0	238.6
67.5°	175.4	125.3	178.0	207.8	218.9
70°	132.2	108.0	156.4	188.5	202.2
72.5°	95.2	91.6	134.2	171.5	185.9
75°	67.4	76.2	114.9	152.2	162.3
77.5°	46.5	62.2	98.5	130.9	139.1
80°	30.4	49.7	83.8	112.6	118.1
82.5°	18.3	39.9	72.6	98.5	101.4
85°	9.5	32.4	65.1	88.7	90.0
87.5°	2.9	27.2	60.9	84.1	85.7
90°	0.3	24.2	58.3	69.1	63.8
92.5°	0.0	22.9	50.4	47.1	42.2
95°	0.0	22.6	40.3	35.7	33.7
97.5°	0.0	21.9	33.1	29.8	28.8
100°	0.0	21.3	28.5	26.2	25.9
102.5°	0.0	20.9	25.9	23.9	23.6
105°	0.0	20.3	24.9	22.6	22.3
107.5°	0.0	19.3	24.2	21.9	21.3
110°	0.0	18.3	24.2	21.6	20.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-18SL-SLC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.3	24.2	21.3	20.3
115°	0.0	16.7	23.9	21.3	20.3
117.5°	0.3	16.0	23.6	21.3	20.3
120°	0.0	15.4	22.9	21.3	20.0
122.5°	0.3	14.4	22.3	20.9	20.0
125°	0.3	13.4	21.3	20.6	19.6
127.5°	0.3	12.4	20.3	20.0	19.0
130°	0.3	11.5	19.3	19.6	18.7
132.5°	0.3	10.5	18.0	19.0	18.3
135°	0.3	9.5	17.0	18.7	18.0
137.5°	0.3	8.5	15.7	17.7	17.7
140°	0.3	7.5	14.4	17.0	17.3
142.5°	0.3	6.9	13.1	16.4	16.7
145°	0.3	5.9	11.8	15.1	16.0
147.5°	0.3	5.2	10.5	13.7	15.1
150°	0.3	4.6	9.2	12.4	13.7
152.5°	0.3	3.9	8.2	10.8	12.8
155°	0.7	3.6	7.2	9.5	11.5
157.5°	0.7	2.9	5.9	8.2	9.8
160°	0.7	2.6	5.2	6.9	8.8
162.5°	0.7	2.3	4.3	5.9	7.5
165°	0.7	2.0	3.6	4.6	6.2
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)