

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: **2SNLED-LD5-18SL-SLC-UNV-L830-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: 2SNLED-LD5-18SL-SLC-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

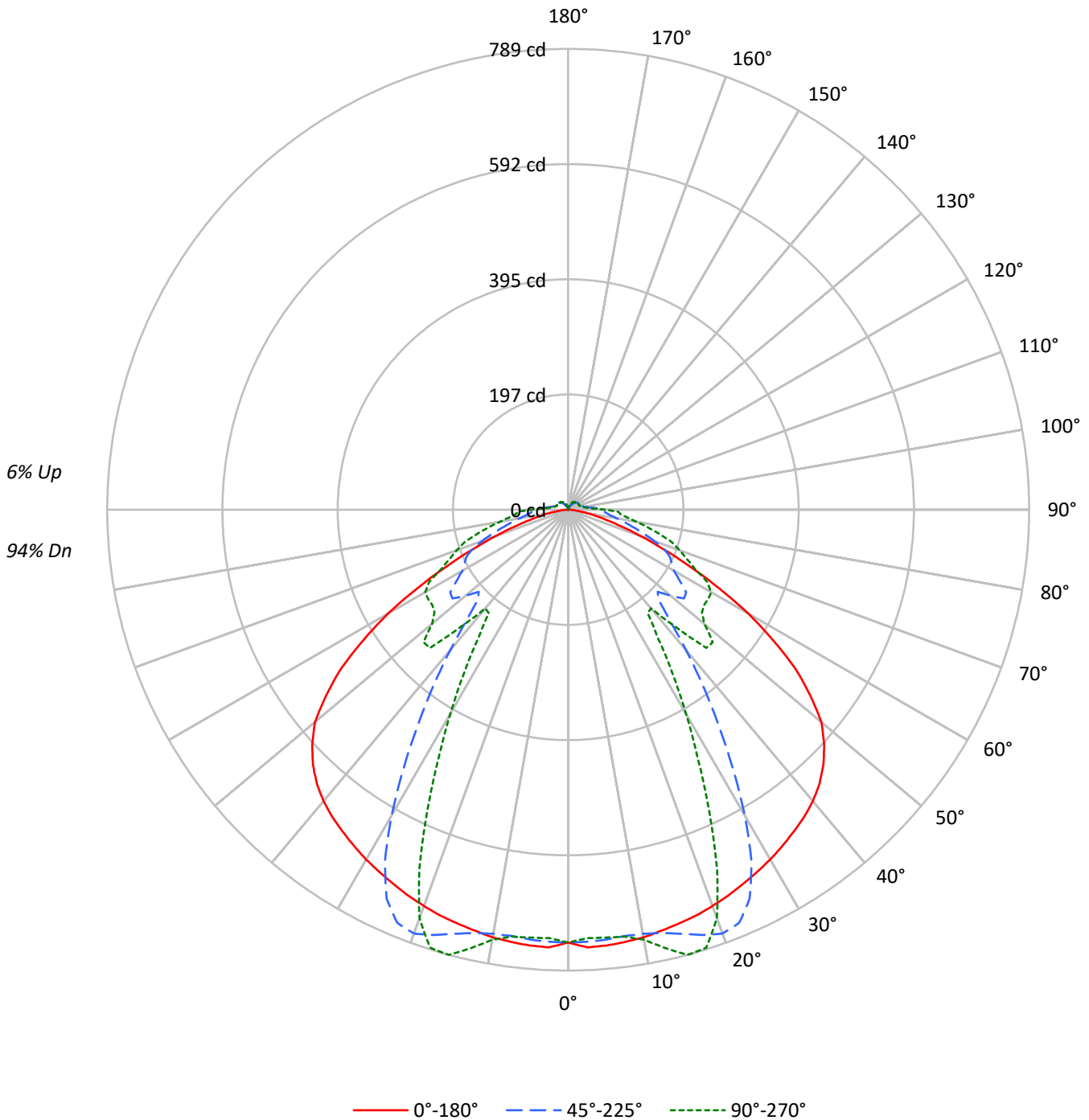
Lumens per Lamp: N/A
Luminaire Lumens: 1903.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 14
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: 2SNLED-LD5-18SL-SLC-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLC-UNV-L830-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	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°	11973	11973	11973
5°	12086	11672	11548
10°	12067	11472	11509
15°	12068	11612	11995
20°	12143	11938	11260
25°	12258	11452	8670
30°	12457	9574	6167
35°	12720	7237	4176
40°	13056	5250	3536
45°	13290	3801	5559
50°	13238	4199	5276
55°	12293	4818	5210
60°	10386	4395	5538
65°	7729	4417	5066
70°	5344	4004	4715
75°	3423	3334	4232
80°	2096	2837	3522
85°	1028	2668	3162



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLC-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.7
10°-20°	212.8	11.2
20°-30°	309.2	16.2
30°-40°	295.4	15.5
40°-50°	270.2	14.2
50°-60°	249.5	13.1
60°-70°	198.2	10.4
70°-80°	122.3	6.4
80°-90°	66.6	3.5
90°-100°	33.7	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°	592.5	31.1
0°-40°	887.9	46.7
0°-60°	1407.7	74.0
0°-90°	1794.8	94.3
90°-120°	72.7	3.8
90°-150°	104.3	5.5
90°-180°	108.0	5.7
0°-180°	1903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	749	738	739	735	735	71
15°	733	723	752	780	789	208
25°	707	721	735	622	571	327
35°	673	662	446	307	267	422
45°	618	431	218	278	334	475
55°	475	221	247	265	284	419
65°	229	143	192	234	239	232
75°	68	76	115	152	163	77
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: 2SNLED-LD5-18SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.8	740.8	740.8	740.8	740.8
2.5°	750.0	739.2	740.5	738.2	734.3
5°	749.0	737.5	738.9	734.9	735.2
7.5°	746.4	734.6	736.2	735.6	737.2
10°	743.4	731.0	737.2	742.8	747.7
12.5°	738.2	727.0	742.1	758.5	768.7
15°	733.3	723.4	751.6	779.5	789.0
17.5°	728.4	722.1	763.4	787.7	786.4
20°	722.1	721.5	772.3	764.1	744.1
22.5°	715.2	721.8	765.4	705.4	666.0
25°	707.4	721.1	734.9	622.1	571.3
27.5°	699.5	718.2	679.5	530.9	480.8
30°	691.6	710.3	604.7	447.6	402.1
32.5°	682.4	693.3	523.4	373.9	331.9
35°	672.9	662.1	446.3	307.3	267.3
37.5°	663.1	617.2	377.1	248.9	223.3
40°	651.3	560.8	313.5	213.5	220.4
42.5°	636.5	497.2	257.4	224.0	271.9
45°	617.8	430.9	217.8	277.8	334.5
47.5°	594.2	367.3	207.9	318.1	335.8
50°	565.7	308.9	228.6	305.0	303.7
52.5°	522.4	260.4	249.6	278.1	288.6
55°	475.2	221.0	246.6	265.3	284.0
57.5°	415.5	194.5	226.3	262.7	284.3
60°	356.1	176.8	208.9	262.4	282.7
62.5°	290.6	160.7	200.0	256.1	268.3
65°	229.2	143.3	192.2	233.5	239.1
67.5°	175.8	125.6	178.4	208.2	219.4
70°	132.5	108.2	156.8	188.9	202.7
72.5°	95.4	91.8	134.5	171.8	186.3
75°	67.6	76.4	115.1	152.5	162.7
77.5°	46.6	62.3	98.7	131.2	139.4
80°	30.5	49.8	84.0	112.8	118.4
82.5°	18.4	40.0	72.8	98.7	101.7
85°	9.5	32.5	65.3	88.9	90.2
87.5°	3.0	27.2	61.0	84.3	85.9
90°	0.3	24.3	58.4	69.2	63.9
92.5°	0.0	23.0	50.5	47.2	42.3
95°	0.0	22.6	40.3	35.7	33.8
97.5°	0.0	22.0	33.1	29.8	28.9
100°	0.0	21.3	28.5	26.2	25.9
102.5°	0.0	21.0	25.9	23.9	23.6
105°	0.0	20.3	24.9	22.6	22.3
107.5°	0.0	19.3	24.3	22.0	21.3
110°	0.0	18.4	24.3	21.6	20.7



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-18SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.4	24.3	21.3	20.3
115°	0.0	16.7	23.9	21.3	20.3
117.5°	0.3	16.1	23.6	21.3	20.3
120°	0.0	15.4	23.0	21.3	20.0
122.5°	0.3	14.4	22.3	21.0	20.0
125°	0.3	13.4	21.3	20.7	19.7
127.5°	0.3	12.5	20.3	20.0	19.0
130°	0.3	11.5	19.3	19.7	18.7
132.5°	0.3	10.5	18.0	19.0	18.4
135°	0.3	9.5	17.1	18.7	18.0
137.5°	0.3	8.5	15.7	17.7	17.7
140°	0.3	7.5	14.4	17.1	17.4
142.5°	0.3	6.9	13.1	16.4	16.7
145°	0.3	5.9	11.8	15.1	16.1
147.5°	0.3	5.2	10.5	13.8	15.1
150°	0.3	4.6	9.2	12.5	13.8
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	3.0	5.9	8.2	9.8
160°	0.7	2.6	5.2	6.9	8.9
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)