

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: P284454

Luminaire Tested: **2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1947.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

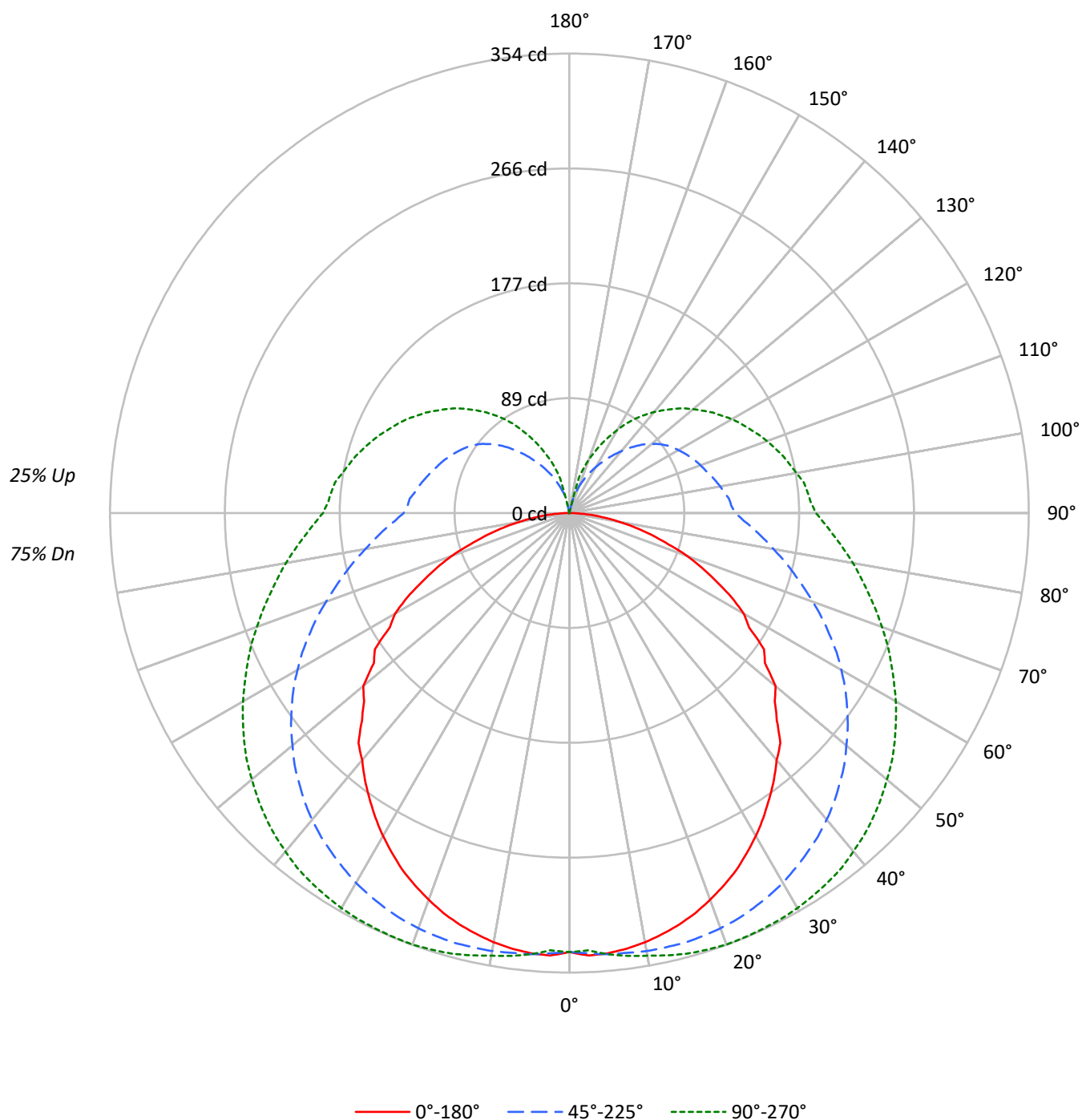
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284454

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284454

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5466	5466	5466
5°	5493	5390	5360
10°	5451	5333	5330
15°	5398	5295	5342
20°	5331	5262	5352
25°	5264	5233	5360
30°	5175	5207	5390
35°	5075	5179	5426
40°	4980	5165	5462
45°	4864	5142	5504
50°	4851	5117	5549
55°	4734	5103	5615
60°	4524	5092	5690
65°	4225	5079	5797
70°	3892	5094	5960
75°	3337	5183	6201
80°	2707	5390	6601
85°	1828	5830	7182



TEST NUMBER: P284454

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.7
10°-20°	96.3	4.9
20°-30°	153.1	7.9
30°-40°	196.5	10.1
40°-50°	221.9	11.4
50°-60°	226.4	11.6
60°-70°	209.7	10.8
70°-80°	177.6	9.1
80°-90°	141.7	7.3
90°-100°	120.4	6.2
100°-110°	107.2	5.5
110°-120°	91.3	4.7
120°-130°	72.5	3.7
130°-140°	51.5	2.6
140°-150°	30.7	1.6
150°-160°	14.3	0.7
160°-170°	3.4	0.2
170°-180°	0.0	0.0
0°-30°	281.9	14.5
0°-40°	478.4	24.6
0°-60°	926.6	47.6
0°-90°	1455.6	74.8
90°-120°	318.9	16.4
90°-150°	473.6	24.3
90°-180°	491.0	25.2
0°-180°	1947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	338	338	338	338	338	
5°	340	338	341	341	341	32
15°	328	331	343	349	351	93
25°	304	314	336	348	353	140
35°	268	288	319	339	347	168
45°	226	257	295	320	331	176
55°	183	214	261	293	306	161
65°	125	167	221	259	274	124
75°	66	117	179	223	238	70
85°	17	75	143	189	205	18
90°	1	61	128	174	190	1
95°	0	58	124	169	184	0
105°	0	53	113	155	170	0
115°	0	49	102	140	153	0
125°	0	43	91	123	135	0
135°	0	32	73	104	114	0
145°	0	21	51	78	89	0
155°	0	13	32	48	59	0
165°	0	7	14	20	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284454

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	338.2	338.2	338.2	338.2	338.2
2.5°	341.2	337.7	339.5	339.0	337.2
5°	340.4	337.7	341.2	341.2	341.2
7.5°	338.5	336.7	341.7	343.6	344.1
10°	335.8	335.8	342.7	345.4	346.3
12.5°	332.1	333.5	342.7	346.8	349.0
15°	328.0	330.7	342.7	349.0	351.4
17.5°	323.0	327.5	341.7	349.5	352.7
20°	317.0	324.0	340.4	349.5	353.7
22.5°	310.6	319.4	338.5	348.7	353.7
25°	303.8	313.8	335.8	347.7	353.2
27.5°	295.6	308.4	332.6	346.3	352.7
30°	287.3	302.0	328.9	344.5	351.4
32.5°	278.2	295.1	324.3	341.7	349.5
35°	268.5	288.3	319.4	339.0	347.3
37.5°	258.9	280.0	314.3	335.3	344.5
40°	248.4	271.7	308.4	330.7	340.4
42.5°	240.6	263.1	302.0	326.2	336.3
45°	226.1	256.7	294.6	320.3	331.2
47.5°	214.6	244.3	287.3	314.3	325.7
50°	207.3	234.2	278.6	307.4	319.4
52.5°	189.9	227.4	270.4	300.6	313.3
55°	183.0	213.7	261.2	293.2	306.1
57.5°	164.2	204.1	252.1	285.1	298.3
60°	155.1	190.7	242.0	276.8	290.5
62.5°	140.9	179.4	232.0	267.7	281.9
65°	125.3	167.0	221.0	258.9	273.6
67.5°	110.7	154.7	210.5	249.8	265.3
70°	96.5	141.9	199.5	240.6	256.2
72.5°	80.0	129.0	188.9	232.0	247.5
75°	65.9	116.7	178.9	222.8	238.4
77.5°	52.1	104.8	169.3	214.6	230.1
80°	39.4	93.3	159.6	205.9	221.9
82.5°	27.4	83.7	151.0	197.7	213.2
85°	16.9	75.1	142.7	188.9	204.9
87.5°	7.8	67.3	134.4	180.7	197.2
90°	0.9	61.4	127.7	173.8	189.9
92.5°	0.5	59.5	124.9	170.6	186.2
95°	0.0	57.7	123.6	168.8	184.3
97.5°	0.0	55.8	120.4	166.1	182.1
100°	0.0	54.9	118.0	162.0	177.5
102.5°	0.0	53.6	115.3	158.3	173.8
105°	0.0	53.1	112.6	155.1	170.3
107.5°	0.0	52.1	109.8	151.0	166.1
110°	0.0	51.2	107.5	147.3	162.0



TEST NUMBER: P284454

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.4	105.2	143.7	157.8
115°	0.0	49.4	102.5	139.5	153.2
117.5°	0.0	48.0	99.8	135.4	149.1
120°	0.0	46.2	97.0	131.7	144.6
122.5°	0.0	44.3	94.2	127.2	139.5
125°	0.0	42.6	91.0	123.1	134.9
127.5°	0.0	39.8	87.4	118.5	129.5
130°	0.0	37.0	82.8	114.0	124.4
132.5°	0.5	34.3	78.3	108.9	119.4
135°	0.0	31.6	73.2	103.8	113.5
137.5°	0.0	29.3	67.7	98.4	107.5
140°	0.0	26.5	62.2	92.0	101.6
142.5°	0.0	23.3	56.8	85.1	95.2
145°	0.0	20.6	51.2	77.8	88.8
147.5°	0.5	18.3	46.2	70.0	81.9
150°	0.5	16.4	41.2	62.2	74.1
152.5°	0.5	14.7	36.2	54.9	66.3
155°	0.5	12.8	31.6	47.5	59.0
157.5°	0.5	11.0	26.5	40.2	51.2
160°	0.5	9.6	22.0	33.8	44.0
162.5°	0.5	8.3	17.9	26.5	36.2
165°	0.5	6.9	14.2	19.6	27.9
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)