

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: P284493

Luminaire Tested: **2SNLED-LD5-20SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284493
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-L835-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1981.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

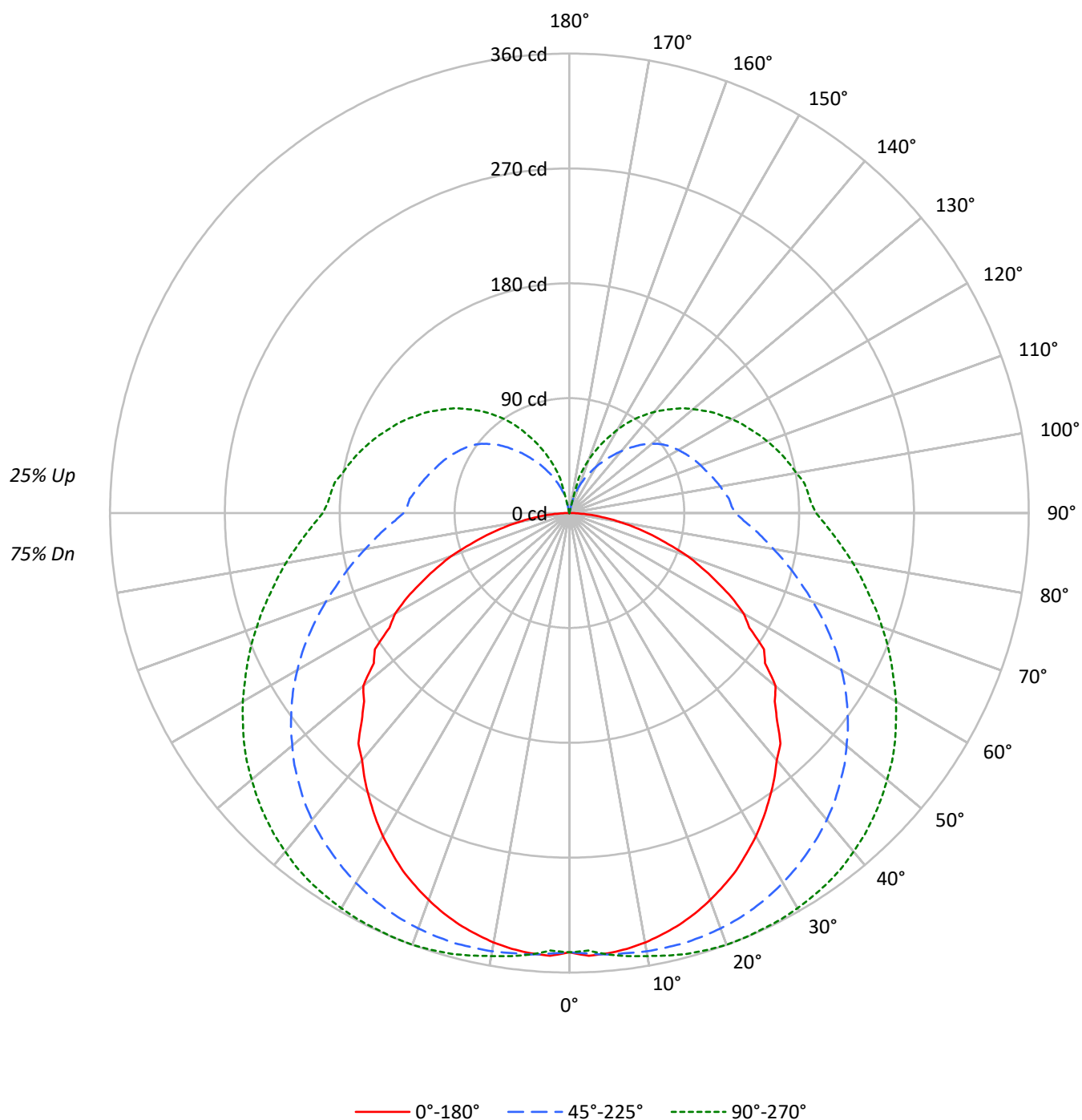
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284493

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284493

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L835-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°	5561	5561	5561
5°	5588	5484	5454
10°	5547	5426	5424
15°	5493	5388	5435
20°	5425	5353	5446
25°	5356	5325	5454
30°	5265	5297	5483
35°	5164	5270	5521
40°	5066	5255	5556
45°	4948	5231	5600
50°	4935	5207	5646
55°	4817	5193	5712
60°	4603	5180	5790
65°	4300	5169	5898
70°	3960	5183	6065
75°	3398	5272	6310
80°	2756	5485	6714
85°	1860	5932	7308



TEST NUMBER: P284493

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	1.7
10°-20°	98.0	4.9
20°-30°	155.8	7.9
30°-40°	199.9	10.1
40°-50°	225.7	11.4
50°-60°	230.3	11.6
60°-70°	213.4	10.8
70°-80°	180.7	9.1
80°-90°	144.2	7.3
90°-100°	122.5	6.2
100°-110°	109.1	5.5
110°-120°	92.9	4.7
120°-130°	73.8	3.7
130°-140°	52.4	2.6
140°-150°	31.3	1.6
150°-160°	14.6	0.7
160°-170°	3.5	0.2
170°-180°	0.0	0.0
0°-30°	286.8	14.5
0°-40°	486.7	24.6
0°-60°	942.8	47.6
0°-90°	1481.0	74.8
90°-120°	324.5	16.4
90°-150°	481.9	24.3
90°-180°	500.0	25.2
0°-180°	1981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	346	344	347	347	347	33
15°	334	336	349	355	358	94
25°	309	319	342	354	359	142
35°	273	293	325	345	353	171
45°	230	261	300	326	337	179
55°	186	217	266	298	311	163
65°	128	170	225	263	278	127
75°	67	119	182	227	243	71
85°	17	76	145	192	208	19
90°	1	62	130	177	193	1
95°	0	59	126	172	188	0
105°	0	54	115	158	173	0
115°	0	50	104	142	156	0
125°	0	43	93	125	137	0
135°	0	32	74	106	115	0
145°	0	21	52	79	90	0
155°	0	13	32	48	60	0
165°	0	7	14	20	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284493

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	344.1	344.1	344.1	344.1	344.1
2.5°	347.2	343.6	345.4	344.9	343.1
5°	346.3	343.6	347.2	347.2	347.2
7.5°	344.4	342.6	347.7	349.6	350.1
10°	341.7	341.7	348.7	351.5	352.4
12.5°	337.9	339.3	348.7	352.9	355.1
15°	333.8	336.5	348.7	355.1	357.5
17.5°	328.6	333.3	347.7	355.6	358.9
20°	322.6	329.6	346.3	355.6	359.9
22.5°	316.0	325.0	344.4	354.7	359.9
25°	309.1	319.3	341.7	353.7	359.4
27.5°	300.7	313.8	338.4	352.4	358.9
30°	292.3	307.3	334.6	350.5	357.5
32.5°	283.0	300.2	330.0	347.7	355.6
35°	273.2	293.3	325.0	344.9	353.4
37.5°	263.4	284.9	319.8	341.2	350.5
40°	252.7	276.5	313.8	336.5	346.3
42.5°	244.8	267.7	307.3	331.9	342.2
45°	230.0	261.2	299.7	325.8	337.0
47.5°	218.3	248.6	292.3	319.8	331.4
50°	210.9	238.3	283.5	312.8	325.0
52.5°	193.2	231.4	275.1	305.9	318.8
55°	186.2	217.4	265.8	298.3	311.4
57.5°	167.1	207.6	256.5	290.0	303.5
60°	157.8	194.1	246.2	281.6	295.6
62.5°	143.3	182.5	236.0	272.3	286.8
65°	127.5	170.0	224.9	263.4	278.4
67.5°	112.7	157.4	214.2	254.1	269.9
70°	98.2	144.3	203.0	244.8	260.7
72.5°	81.4	131.3	192.2	236.0	251.9
75°	67.1	118.7	182.0	226.7	242.6
77.5°	53.0	106.6	172.2	218.3	234.1
80°	40.1	95.0	162.4	209.5	225.7
82.5°	27.9	85.2	153.6	201.1	216.9
85°	17.2	76.4	145.2	192.2	208.5
87.5°	7.9	68.5	136.8	183.9	200.6
90°	0.9	62.4	129.9	176.9	193.2
92.5°	0.5	60.5	127.1	173.6	189.4
95°	0.0	58.7	125.7	171.7	187.5
97.5°	0.0	56.8	122.5	169.0	185.3
100°	0.0	55.9	120.1	164.8	180.6
102.5°	0.0	54.5	117.3	161.0	176.9
105°	0.0	54.0	114.6	157.8	173.2
107.5°	0.0	53.0	111.7	153.6	169.0
110°	0.0	52.1	109.4	149.9	164.8



TEST NUMBER: P284493

CATALOG NUMBER: 2SNLED-LD5-20SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.3	107.0	146.2	160.5
115°	0.0	50.2	104.3	141.9	155.9
117.5°	0.0	48.9	101.5	137.8	151.7
120°	0.0	47.0	98.7	134.0	147.1
122.5°	0.0	45.1	95.8	129.4	141.9
125°	0.0	43.3	92.6	125.2	137.3
127.5°	0.0	40.4	88.9	120.6	131.8
130°	0.0	37.7	84.3	115.9	126.6
132.5°	0.5	34.9	79.6	110.8	121.5
135°	0.0	32.2	74.5	105.6	115.4
137.5°	0.0	29.8	68.8	100.1	109.4
140°	0.0	27.0	63.3	93.6	103.4
142.5°	0.0	23.7	57.8	86.5	96.8
145°	0.0	21.0	52.1	79.1	90.3
147.5°	0.5	18.6	47.0	71.2	83.3
150°	0.5	16.7	42.0	63.3	75.4
152.5°	0.5	14.9	36.8	55.9	67.5
155°	0.5	13.1	32.2	48.4	60.0
157.5°	0.5	11.2	27.0	41.0	52.1
160°	0.5	9.8	22.4	34.4	44.7
162.5°	0.5	8.4	18.2	27.0	36.8
165°	0.5	7.0	14.4	20.0	28.4
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)