

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: P284498

Luminaire Tested: **4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284498
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: 4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1918.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

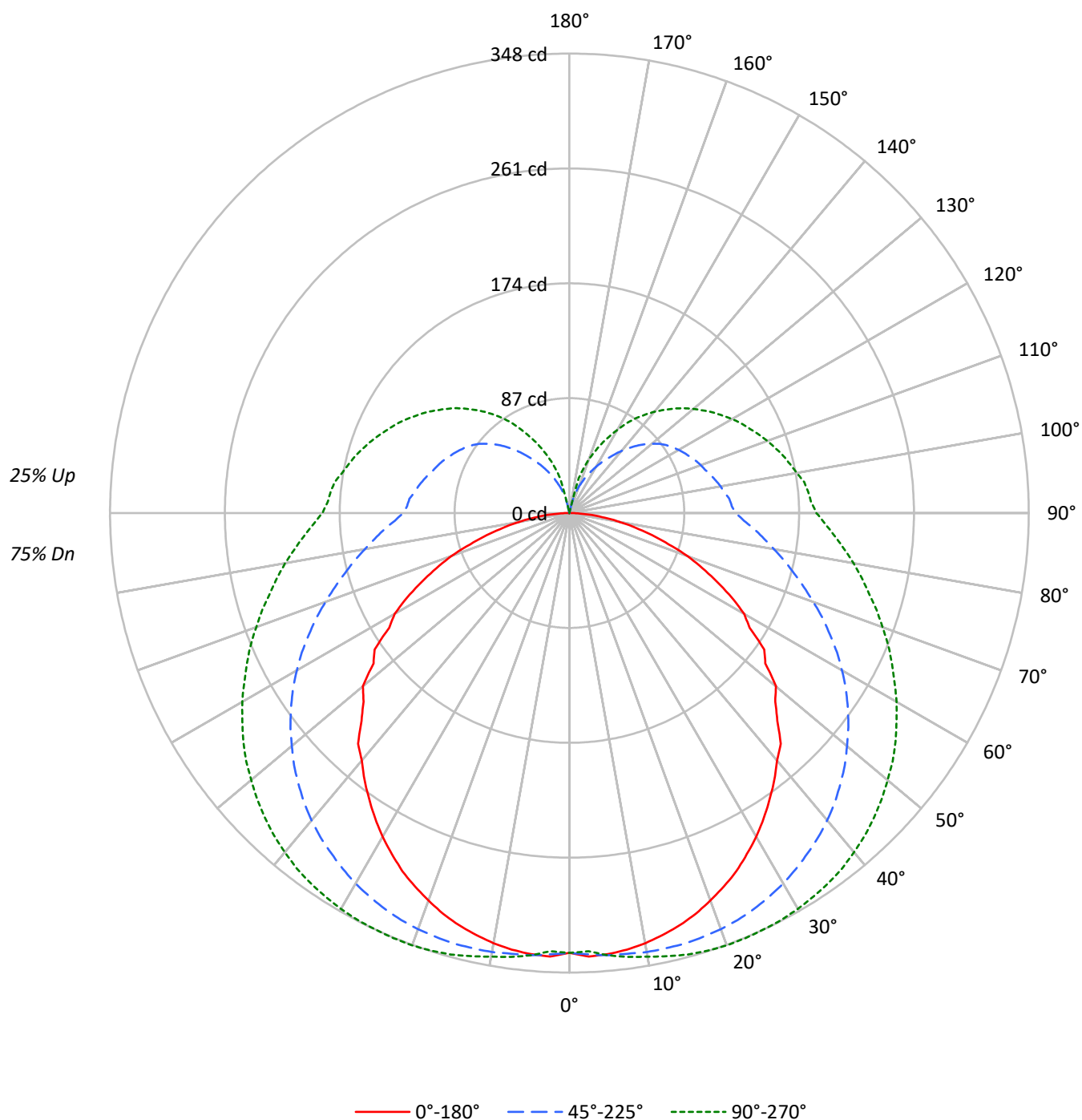
Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284498

CATALOG NUMBER: 4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284498

CATALOG NUMBER: 4SNLED-LD5-19SL-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°	2692	2692	2692
5°	2712	2660	2640
10°	2700	2637	2625
15°	2681	2622	2631
20°	2655	2610	2636
25°	2630	2601	2641
30°	2594	2593	2654
35°	2553	2583	2672
40°	2515	2582	2690
45°	2468	2576	2711
50°	2475	2570	2733
55°	2430	2571	2765
60°	2343	2572	2803
65°	2211	2575	2855
70°	2069	2594	2936
75°	1815	2654	3055
80°	1534	2783	3251
85°	1141	3041	3538



TEST NUMBER: P284498

CATALOG NUMBER: 4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.7
10°-20°	94.9	4.9
20°-30°	150.8	7.9
30°-40°	193.5	10.1
40°-50°	218.6	11.4
50°-60°	223.0	11.6
60°-70°	206.6	10.8
70°-80°	174.9	9.1
80°-90°	139.6	7.3
90°-100°	118.6	6.2
100°-110°	105.6	5.5
110°-120°	90.0	4.7
120°-130°	71.5	3.7
130°-140°	50.7	2.6
140°-150°	30.3	1.6
150°-160°	14.1	0.7
160°-170°	3.3	0.2
170°-180°	0.0	0.0
0°-30°	277.7	14.5
0°-40°	471.2	24.6
0°-60°	912.8	47.6
0°-90°	1433.9	74.8
90°-120°	314.2	16.4
90°-150°	466.6	24.3
90°-180°	484.0	25.2
0°-180°	1918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	335	333	336	336	336	32
15°	323	326	338	344	346	91
25°	299	309	331	342	348	138
35°	264	284	315	334	342	166
45°	223	253	290	316	326	173
55°	180	210	257	289	302	158
65°	123	165	218	255	270	123
75°	65	115	176	220	235	69
85°	17	74	141	186	202	18
90°	1	60	126	171	187	1
95°	0	57	122	166	182	0
105°	0	52	111	153	168	0
115°	0	49	101	137	151	0
125°	0	42	90	121	133	0
135°	0	31	72	102	112	0
145°	0	20	50	77	87	0
155°	0	13	31	47	58	0
165°	0	7	14	19	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284498

CATALOG NUMBER: 4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	333.1	333.1	333.1	333.1	333.1
2.5°	336.2	332.6	334.5	334.0	332.1
5°	335.3	332.6	336.2	336.2	336.2
7.5°	333.5	331.7	336.6	338.5	339.0
10°	330.8	330.8	337.6	340.3	341.1
12.5°	327.2	328.5	337.6	341.6	343.8
15°	323.1	325.8	337.6	343.8	346.1
17.5°	318.2	322.7	336.6	344.3	347.5
20°	312.3	319.1	335.3	344.3	348.4
22.5°	306.0	314.6	333.5	343.5	348.4
25°	299.3	309.2	330.8	342.5	348.0
27.5°	291.2	303.8	327.6	341.1	347.5
30°	283.0	297.5	324.0	339.3	346.1
32.5°	274.0	290.7	319.5	336.6	344.3
35°	264.5	284.0	314.6	334.0	342.1
37.5°	255.0	275.8	309.6	330.3	339.3
40°	244.7	267.7	303.8	325.8	335.3
42.5°	237.0	259.2	297.5	321.3	331.3
45°	222.7	252.9	290.2	315.5	326.3
47.5°	211.4	240.7	283.0	309.6	320.8
50°	204.2	230.7	274.5	302.8	314.6
52.5°	187.1	224.0	266.4	296.1	308.7
55°	180.2	210.5	257.4	288.9	301.5
57.5°	161.8	201.0	248.4	280.8	293.8
60°	152.8	187.9	238.4	272.7	286.2
62.5°	138.8	176.7	228.5	263.7	277.7
65°	123.4	164.6	217.7	255.0	269.5
67.5°	109.1	152.4	207.4	246.0	261.4
70°	95.1	139.7	196.5	237.0	252.4
72.5°	78.8	127.1	186.1	228.5	243.9
75°	64.9	114.9	176.2	219.5	234.9
77.5°	51.3	103.3	166.7	211.4	226.7
80°	38.8	91.9	157.3	202.9	218.6
82.5°	27.0	82.5	148.7	194.7	210.0
85°	16.7	73.9	140.6	186.1	201.9
87.5°	7.7	66.3	132.4	178.1	194.2
90°	0.9	60.4	125.8	171.2	187.1
92.5°	0.5	58.6	123.1	168.1	183.4
95°	0.0	56.8	121.7	166.3	181.6
97.5°	0.0	55.0	118.6	163.6	179.4
100°	0.0	54.1	116.3	159.6	174.9
102.5°	0.0	52.8	113.6	155.9	171.2
105°	0.0	52.3	110.9	152.8	167.7
107.5°	0.0	51.3	108.1	148.7	163.6
110°	0.0	50.5	105.9	145.1	159.6



TEST NUMBER: P284498

CATALOG NUMBER: 4SNLED-LD5-19SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.6	103.6	141.6	155.4
115°	0.0	48.6	100.9	137.4	150.9
117.5°	0.0	47.3	98.3	133.4	146.9
120°	0.0	45.5	95.6	129.8	142.4
122.5°	0.0	43.7	92.8	125.3	137.4
125°	0.0	42.0	89.6	121.3	132.9
127.5°	0.0	39.2	86.1	116.8	127.6
130°	0.0	36.5	81.6	112.3	122.6
132.5°	0.5	33.8	77.1	107.3	117.6
135°	0.0	31.1	72.1	102.3	111.8
137.5°	0.0	28.8	66.6	96.9	105.9
140°	0.0	26.1	61.3	90.6	100.1
142.5°	0.0	23.0	55.9	83.8	93.8
145°	0.0	20.3	50.5	76.6	87.4
147.5°	0.5	18.0	45.5	69.0	80.6
150°	0.5	16.2	40.6	61.3	73.0
152.5°	0.5	14.5	35.6	54.1	65.3
155°	0.5	12.6	31.1	46.8	58.1
157.5°	0.5	10.8	26.1	39.6	50.5
160°	0.5	9.5	21.6	33.3	43.3
162.5°	0.5	8.1	17.6	26.1	35.6
165°	0.5	6.8	14.0	19.3	27.5
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)