

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: P284576

Luminaire Tested: **4SNLED-LD5-19SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284576
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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

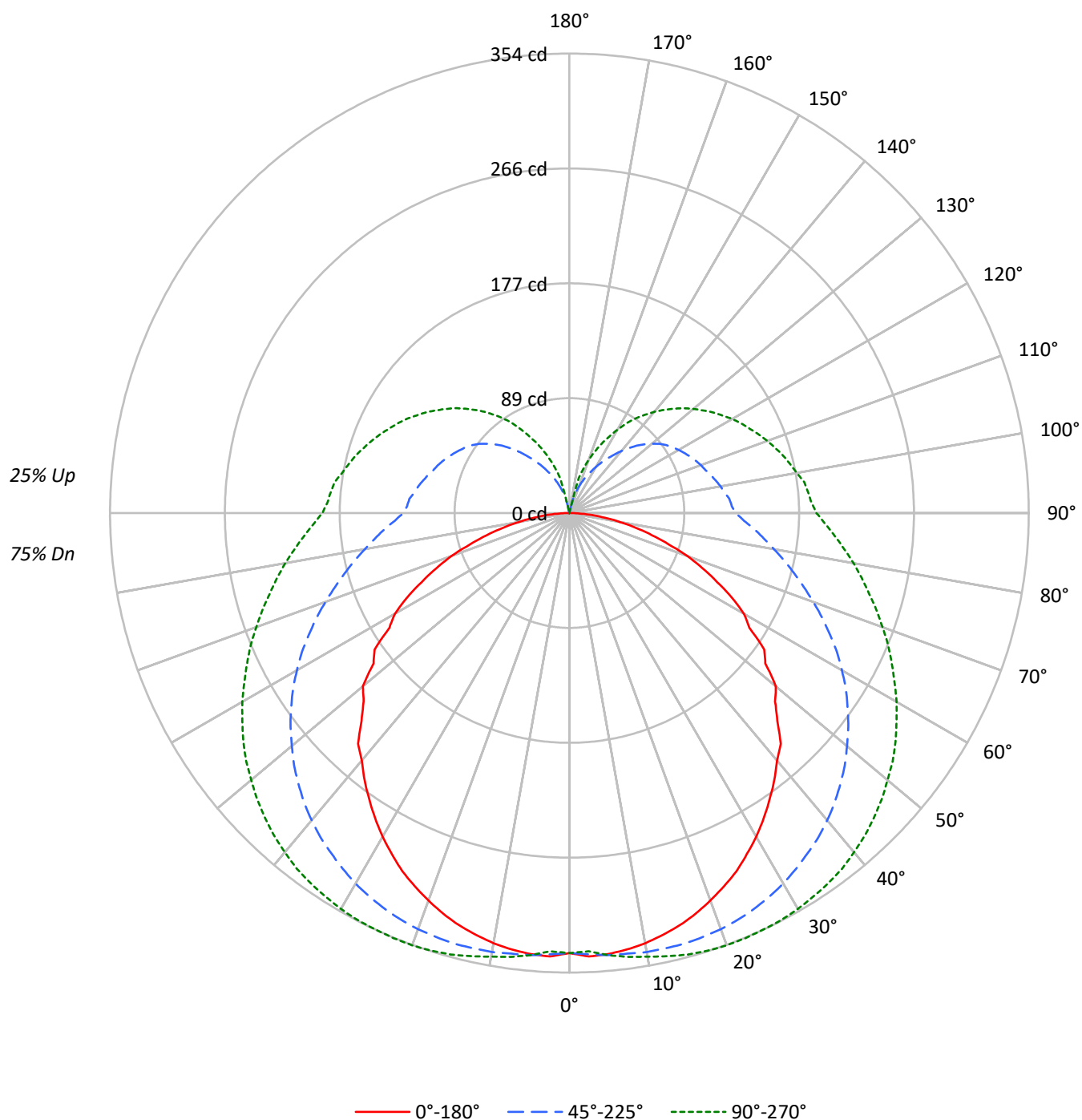
Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	2739	2739	2739
5°	2759	2705	2685
10°	2746	2682	2671
15°	2727	2667	2676
20°	2701	2655	2681
25°	2676	2646	2685
30°	2639	2638	2700
35°	2598	2628	2719
40°	2559	2626	2736
45°	2510	2620	2758
50°	2517	2614	2780
55°	2472	2615	2813
60°	2383	2616	2851
65°	2251	2619	2904
70°	2104	2639	2986
75°	1848	2700	3107
80°	1561	2830	3306
85°	1155	3093	3600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	1.7
10°-20°	96.5	4.9
20°-30°	153.4	7.9
30°-40°	196.9	10.1
40°-50°	222.3	11.4
50°-60°	226.8	11.6
60°-70°	210.2	10.8
70°-80°	177.9	9.1
80°-90°	142.0	7.3
90°-100°	120.6	6.2
100°-110°	107.4	5.5
110°-120°	91.5	4.7
120°-130°	72.7	3.7
130°-140°	51.6	2.6
140°-150°	30.8	1.6
150°-160°	14.4	0.7
160°-170°	3.4	0.2
170°-180°	0.0	0.0
0°-30°	282.5	14.5
0°-40°	479.3	24.6
0°-60°	928.5	47.6
0°-90°	1458.6	74.8
90°-120°	319.6	16.4
90°-150°	474.6	24.3
90°-180°	492.0	25.2
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	339	339	339	339	339	
5°	341	338	342	342	342	32
15°	329	331	343	350	352	93
25°	304	314	336	348	354	140
35°	269	289	320	340	348	168
45°	226	257	295	321	332	176
55°	183	214	262	294	307	161
65°	126	167	221	259	274	125
75°	66	117	179	223	239	70
85°	17	75	143	189	205	19
90°	1	62	128	174	190	1
95°	0	58	124	169	185	0
105°	0	53	113	155	171	0
115°	0	50	103	140	154	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	338.9	338.9	338.9	338.9	338.9
2.5°	341.9	338.4	340.2	339.7	337.9
5°	341.1	338.4	341.9	341.9	341.9
7.5°	339.2	337.4	342.4	344.3	344.8
10°	336.5	336.5	343.4	346.2	347.0
12.5°	332.8	334.2	343.4	347.5	349.7
15°	328.7	331.4	343.4	349.7	352.1
17.5°	323.6	328.2	342.4	350.2	353.5
20°	317.7	324.6	341.1	350.2	354.4
22.5°	311.3	320.0	339.2	349.4	354.4
25°	304.5	314.5	336.5	348.4	353.9
27.5°	296.2	309.0	333.3	347.0	353.5
30°	287.9	302.6	329.6	345.2	352.1
32.5°	278.7	295.7	325.0	342.4	350.2
35°	269.1	288.9	320.0	339.7	348.0
37.5°	259.4	280.6	315.0	336.0	345.2
40°	248.9	272.3	309.0	331.4	341.1
42.5°	241.1	263.6	302.6	326.9	337.0
45°	226.5	257.2	295.2	320.9	331.9
47.5°	215.0	244.8	287.9	315.0	326.4
50°	207.7	234.7	279.2	308.0	320.0
52.5°	190.3	227.9	270.9	301.2	314.0
55°	183.3	214.1	261.8	293.8	306.7
57.5°	164.5	204.5	252.6	285.7	298.9
60°	155.4	191.1	242.5	277.4	291.1
62.5°	141.2	179.8	232.5	268.2	282.4
65°	125.6	167.4	221.4	259.4	274.1
67.5°	111.0	155.0	210.9	250.3	265.9
70°	96.7	142.1	199.9	241.1	256.7
72.5°	80.2	129.3	189.3	232.5	248.0
75°	66.1	116.9	179.3	223.3	238.9
77.5°	52.2	105.0	169.6	215.0	230.6
80°	39.5	93.5	160.0	206.4	222.3
82.5°	27.5	83.9	151.3	198.1	213.7
85°	16.9	75.2	143.0	189.3	205.4
87.5°	7.8	67.4	134.7	181.1	197.6
90°	0.9	61.5	127.9	174.2	190.3
92.5°	0.5	59.6	125.2	171.0	186.6
95°	0.0	57.8	123.8	169.1	184.7
97.5°	0.0	55.9	120.6	166.4	182.5
100°	0.0	55.1	118.3	162.3	177.9
102.5°	0.0	53.7	115.5	158.6	174.2
105°	0.0	53.2	112.8	155.4	170.6
107.5°	0.0	52.2	110.0	151.3	166.4
110°	0.0	51.3	107.8	147.6	162.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.5	105.4	144.0	158.1
115°	0.0	49.5	102.7	139.8	153.5
117.5°	0.0	48.1	100.0	135.7	149.4
120°	0.0	46.3	97.2	132.0	144.9
122.5°	0.0	44.4	94.4	127.4	139.8
125°	0.0	42.7	91.2	123.3	135.2
127.5°	0.0	39.8	87.6	118.8	129.8
130°	0.0	37.1	83.0	114.2	124.7
132.5°	0.5	34.4	78.4	109.1	119.6
135°	0.0	31.7	73.4	104.0	113.7
137.5°	0.0	29.3	67.8	98.6	107.8
140°	0.0	26.6	62.4	92.2	101.8
142.5°	0.0	23.4	56.9	85.2	95.4
145°	0.0	20.7	51.3	77.9	89.0
147.5°	0.5	18.3	46.3	70.1	82.0
150°	0.5	16.5	41.3	62.4	74.2
152.5°	0.5	14.7	36.2	55.1	66.4
155°	0.5	12.9	31.7	47.6	59.1
157.5°	0.5	11.0	26.6	40.3	51.3
160°	0.5	9.6	22.0	33.9	44.0
162.5°	0.5	8.3	17.9	26.6	36.2
165°	0.5	6.9	14.2	19.7	28.0
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)