

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: P284694

Luminaire Tested: **4SNLED-LD5-22SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284694
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-LD5-22SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

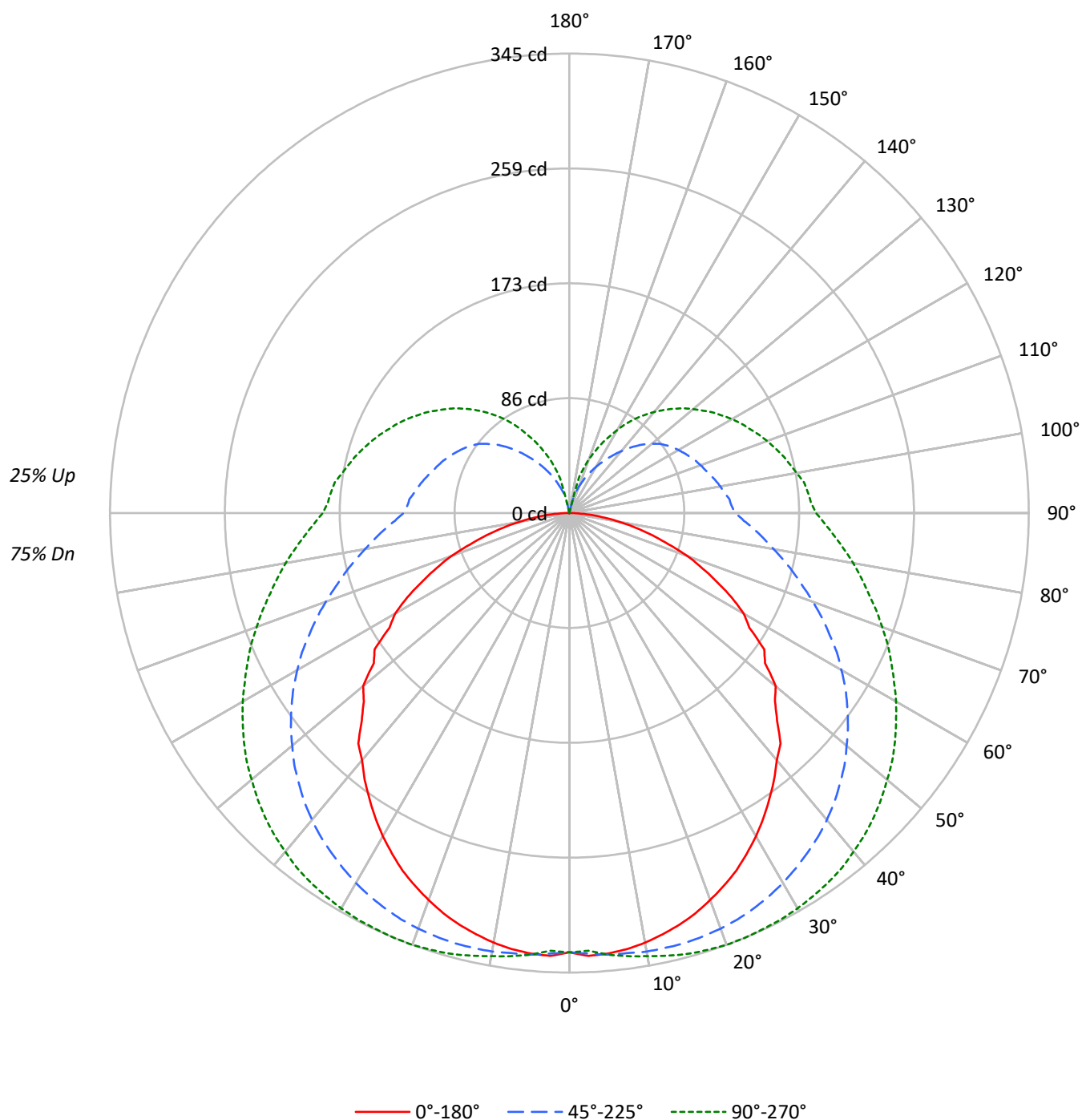
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2665	2665	2665
5°	2686	2633	2614
10°	2673	2611	2600
15°	2654	2597	2605
20°	2629	2585	2610
25°	2604	2575	2614
30°	2568	2567	2628
35°	2528	2558	2646
40°	2491	2556	2663
45°	2444	2550	2685
50°	2451	2545	2706
55°	2407	2545	2738
60°	2318	2546	2775
65°	2190	2549	2826
70°	2050	2569	2907
75°	1798	2628	3024
80°	1518	2754	3219
85°	1127	3011	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.7
10°-20°	93.9	4.9
20°-30°	149.3	7.9
30°-40°	191.6	10.1
40°-50°	216.4	11.4
50°-60°	220.8	11.6
60°-70°	204.6	10.8
70°-80°	173.2	9.1
80°-90°	138.2	7.3
90°-100°	117.4	6.2
100°-110°	104.6	5.5
110°-120°	89.1	4.7
120°-130°	70.7	3.7
130°-140°	50.2	2.6
140°-150°	30.0	1.6
150°-160°	14.0	0.7
160°-170°	3.3	0.2
170°-180°	0.0	0.0
0°-30°	274.9	14.5
0°-40°	466.6	24.6
0°-60°	903.8	47.6
0°-90°	1419.7	74.8
90°-120°	311.1	16.4
90°-150°	462.0	24.3
90°-180°	479.0	25.2
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	330	330	330	330	330	
5°	332	329	333	333	333	32
15°	320	323	334	340	343	90
25°	296	306	328	339	344	136
35°	262	281	312	331	339	164
45°	220	250	287	312	323	171
55°	178	208	255	286	298	157
65°	122	163	216	252	267	121
75°	64	114	174	217	232	68
85°	16	73	139	184	200	18
90°	1	60	124	170	185	1
95°	0	56	120	165	180	0
105°	0	52	110	151	166	0
115°	0	48	100	136	149	0
125°	0	42	89	120	132	0
135°	0	31	71	101	111	0
145°	0	20	50	76	87	0
155°	0	12	31	46	58	0
165°	0	7	14	19	27	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°	329.8	329.8	329.8	329.8	329.8
2.5°	332.8	329.3	331.1	330.7	328.9
5°	332.0	329.3	332.8	332.8	332.8
7.5°	330.2	328.4	333.3	335.1	335.6
10°	327.5	327.5	334.3	336.9	337.8
12.5°	323.9	325.2	334.3	338.2	340.4
15°	319.9	322.6	334.3	340.4	342.7
17.5°	315.0	319.5	333.3	340.9	344.0
20°	309.2	316.0	332.0	340.9	345.0
22.5°	303.0	311.5	330.2	340.1	345.0
25°	296.3	306.1	327.5	339.1	344.5
27.5°	288.3	300.8	324.4	337.8	344.0
30°	280.2	294.5	320.8	336.0	342.7
32.5°	271.3	287.8	316.3	333.3	340.9
35°	261.9	281.2	311.5	330.7	338.7
37.5°	252.5	273.1	306.6	327.1	336.0
40°	242.3	265.0	300.8	322.6	332.0
42.5°	234.7	256.6	294.5	318.1	328.0
45°	220.5	250.3	287.3	312.4	323.1
47.5°	209.3	238.3	280.2	306.6	317.7
50°	202.2	228.4	271.8	299.8	311.5
52.5°	185.2	221.8	263.7	293.2	305.6
55°	178.5	208.4	254.8	286.0	298.5
57.5°	160.2	199.0	245.9	278.0	290.9
60°	151.2	186.0	236.0	270.0	283.3
62.5°	137.4	175.0	226.3	261.1	274.9
65°	122.2	162.9	215.5	252.5	266.8
67.5°	108.0	150.9	205.3	243.6	258.8
70°	94.2	138.4	194.6	234.7	249.9
72.5°	78.0	125.8	184.2	226.3	241.4
75°	64.3	113.8	174.5	217.4	232.5
77.5°	50.8	102.2	165.1	209.3	224.5
80°	38.4	91.0	155.7	200.9	216.4
82.5°	26.7	81.6	147.3	192.8	208.0
85°	16.5	73.2	139.2	184.2	199.9
87.5°	7.6	65.6	131.1	176.3	192.3
90°	0.8	59.8	124.5	169.5	185.2
92.5°	0.5	58.0	121.9	166.4	181.6
95°	0.0	56.2	120.5	164.6	179.8
97.5°	0.0	54.4	117.4	162.0	177.6
100°	0.0	53.6	115.1	158.0	173.2
102.5°	0.0	52.3	112.5	154.4	169.5
105°	0.0	51.8	109.8	151.2	166.1
107.5°	0.0	50.8	107.1	147.3	162.0
110°	0.0	50.0	104.9	143.7	158.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.1	102.6	140.2	153.9
115°	0.0	48.2	99.9	136.1	149.4
117.5°	0.0	46.8	97.3	132.1	145.5
120°	0.0	45.0	94.6	128.5	141.0
122.5°	0.0	43.2	91.9	124.0	136.1
125°	0.0	41.5	88.7	120.1	131.6
127.5°	0.0	38.8	85.3	115.6	126.3
130°	0.0	36.1	80.8	111.1	121.4
132.5°	0.5	33.5	76.3	106.2	116.4
135°	0.0	30.8	71.4	101.3	110.7
137.5°	0.0	28.5	66.0	96.0	104.9
140°	0.0	25.9	60.7	89.7	99.1
142.5°	0.0	22.8	55.4	83.0	92.8
145°	0.0	20.1	50.0	75.9	86.6
147.5°	0.5	17.8	45.0	68.3	79.8
150°	0.5	16.0	40.2	60.7	72.2
152.5°	0.5	14.3	35.3	53.6	64.7
155°	0.5	12.5	30.8	46.4	57.6
157.5°	0.5	10.7	25.9	39.3	50.0
160°	0.5	9.4	21.4	33.0	42.9
162.5°	0.5	8.1	17.5	25.9	35.3
165°	0.5	6.7	13.8	19.1	27.2
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)