

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: P566439

Luminaire Tested: **4SNX-45SL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-LN-UNV-L835-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

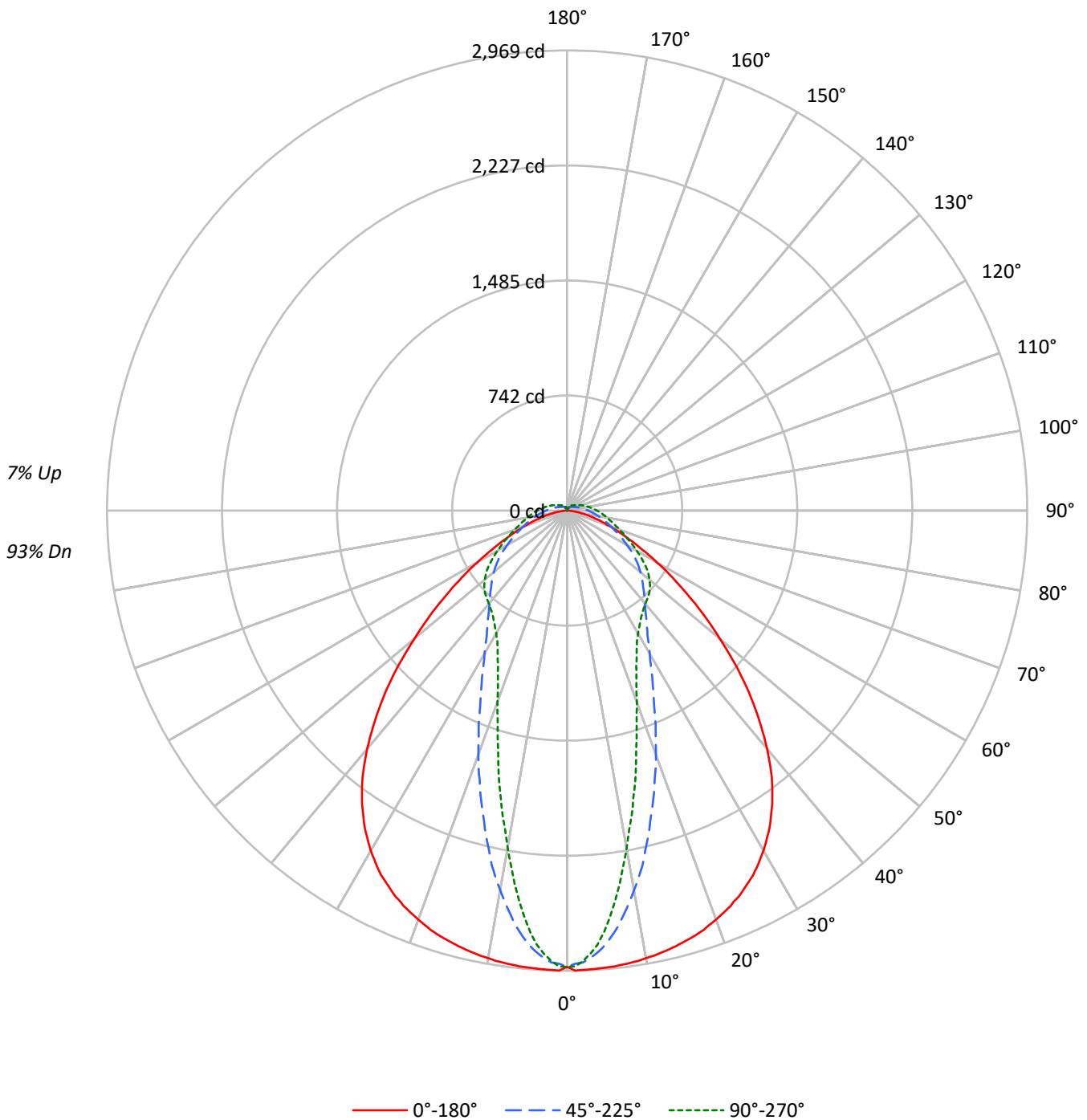
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4693.0 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 29.8
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					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31690	31690	31690
5°	31854	29126	27873
10°	31811	24973	21625
15°	31794	20371	16208
20°	31693	16227	12129
25°	31405	12717	9626
30°	30747	10291	8211
35°	29455	8710	7470
40°	27248	7689	7070
45°	24225	7035	6852
50°	20521	6473	6472
55°	16859	5866	5911
60°	13483	5160	5185
65°	10465	4530	4512
70°	8127	4007	3991
75°	6284	3600	3637
80°	4437	3294	3380
85°	2468	3071	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	5.6
10°-20°	611.1	13.0
20°-30°	725.4	15.5
30°-40°	729.8	15.6
40°-50°	678.4	14.5
50°-60°	558.6	11.9
60°-70°	393.6	8.4
70°-80°	257.2	5.5
80°-90°	164.2	3.5
90°-100°	107.7	2.3
100°-110°	73.1	1.6
110°-120°	50.1	1.1
120°-130°	34.7	0.7
130°-140°	23.3	0.5
140°-150°	14.4	0.3
150°-160°	7.5	0.2
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1597.2	34.0
0°-40°	2327.1	49.6
0°-60°	3564.1	75.9
0°-90°	4379.1	93.3
90°-120°	230.9	4.9
90°-150°	303.3	6.5
90°-180°	314.0	6.7
0°-180°	4693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2944	2944	2944	2944	2944	
5°	2959	2920	2814	2760	2730	282
15°	2885	2578	2073	1813	1714	815
25°	2696	1992	1321	1109	1062	1240
35°	2307	1348	895	839	834	1435
45°	1658	888	694	730	750	1273
55°	952	583	536	595	615	860
65°	448	352	369	416	430	454
75°	175	182	248	293	305	189
85°	30	84	167	216	226	37
90°	0	57	135	184	192	2
95°	0	42	113	155	162	0
105°	0	30	76	108	118	0
115°	2	25	54	79	84	2
125°	2	20	44	57	62	2
135°	2	17	34	44	47	2
145°	2	12	25	34	37	2
155°	2	10	17	25	27	1
165°	2	5	10	12	15	1
175°	5	5	5	5	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2944.1	2944.1	2944.1	2944.1	2944.1
1°	2968.7	2956.4	2924.4	2946.5	2941.6
2°	2966.2	2953.9	2917.0	2926.8	2909.6
3°	2963.7	2946.5	2889.9	2887.5	2862.9
4°	2961.3	2934.2	2855.5	2826.0	2806.3
5°	2958.8	2919.5	2813.7	2759.6	2730.1
6°	2956.4	2902.2	2759.6	2678.4	2636.6
7°	2951.4	2875.2	2703.0	2592.3	2538.2
8°	2946.5	2850.6	2631.7	2498.9	2432.5
9°	2941.6	2818.6	2560.4	2398.0	2319.3
10°	2931.8	2786.6	2486.6	2294.7	2211.1
11°	2926.8	2749.8	2415.3	2196.4	2098.0
12°	2917.0	2710.4	2339.0	2093.1	2007.0
13°	2907.2	2668.6	2245.6	2004.5	1901.2
14°	2897.3	2624.3	2164.4	1906.1	1810.2
15°	2885.0	2577.6	2073.4	1812.7	1714.3
16°	2872.7	2523.5	1992.2	1716.8	1613.5
17°	2860.4	2471.8	1916.0	1628.2	1534.7
18°	2845.7	2420.2	1827.4	1542.1	1451.1
19°	2826.0	2361.2	1756.1	1463.4	1379.8
20°	2808.8	2307.0	1674.9	1389.6	1315.8
21°	2789.1	2240.6	1593.8	1320.8	1247.0
22.5°	2759.6	2147.2	1490.5	1234.7	1165.8
23°	2744.8	2120.1	1448.7	1202.7	1143.7
24°	2725.2	2048.8	1379.8	1153.5	1094.5
25°	2695.6	1992.2	1320.8	1109.2	1062.5
26°	2668.6	1923.4	1261.7	1069.9	1023.2
27°	2641.5	1856.9	1210.1	1028.1	988.7
28°	2607.1	1788.1	1153.5	993.7	959.2
29°	2570.2	1724.1	1106.8	964.1	937.1
30°	2533.3	1652.8	1067.4	937.1	914.9
32.5°	2430.0	1495.4	966.6	885.4	870.7
35°	2307.0	1347.8	895.3	838.7	833.8
37.5°	2169.3	1212.5	831.3	801.8	806.7
40°	2007.0	1089.6	777.2	774.8	784.6
42.5°	1834.8	983.8	735.4	752.6	767.4
45°	1657.7	887.9	693.6	730.5	750.2
47.5°	1473.3	804.3	656.7	703.4	725.6
50°	1286.3	723.1	617.3	671.5	693.6
52.5°	1119.1	651.8	578.0	634.6	659.2
55°	951.8	582.9	536.2	595.2	614.9
57.5°	806.7	519.0	491.9	550.9	565.7
60°	671.5	457.5	447.6	501.7	519.0
62.5°	548.5	403.4	405.8	457.5	474.7
65°	447.6	351.7	368.9	415.7	430.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	364.0	302.5	332.0	381.2	393.5
70°	287.8	258.3	302.5	346.8	359.1
72.5°	228.7	218.9	273.0	319.7	329.6
75°	174.6	182.0	248.4	292.7	305.0
77.5°	125.4	152.5	223.8	270.5	280.4
80°	88.5	125.4	204.1	250.9	260.7
82.5°	56.6	103.3	184.5	233.7	243.5
85°	29.5	83.6	167.2	216.4	226.3
87.5°	12.3	68.9	150.0	199.2	209.1
90°	0.0	56.6	135.3	184.5	191.8
92.5°	0.0	49.2	123.0	169.7	177.1
95°	0.0	41.8	113.1	155.0	162.3
97.5°	0.0	39.4	100.8	142.7	150.0
100°	0.0	34.4	91.0	130.4	140.2
102.5°	0.0	32.0	83.6	118.1	127.9
105°	0.0	29.5	76.2	108.2	118.1
107.5°	0.0	27.1	71.3	100.8	108.2
110°	0.0	27.1	63.9	93.5	100.8
112.5°	2.5	24.6	59.0	83.6	91.0
115°	2.5	24.6	54.1	78.7	83.6
117.5°	2.5	24.6	51.7	71.3	76.2
120°	2.5	22.1	49.2	66.4	71.3
122.5°	2.5	22.1	46.7	61.5	63.9
125°	2.5	19.7	44.3	56.6	61.5
127.5°	2.5	19.7	41.8	54.1	56.6
130°	2.5	19.7	39.4	49.2	54.1
132.5°	2.5	17.2	36.9	46.7	49.2
135°	2.5	17.2	34.4	44.3	46.7
137.5°	2.5	14.8	32.0	41.8	44.3
140°	2.5	14.8	29.5	39.4	41.8
142.5°	2.5	12.3	27.1	36.9	39.4
145°	2.5	12.3	24.6	34.4	36.9
147.5°	2.5	12.3	22.1	32.0	34.4
150°	2.5	9.8	19.7	29.5	32.0
152.5°	2.5	9.8	17.2	27.1	29.5
155°	2.5	9.8	17.2	24.6	27.1
157.5°	2.5	7.4	14.8	19.7	24.6
160°	2.5	7.4	12.3	17.2	22.1
162.5°	2.5	7.4	12.3	14.8	17.2
165°	2.5	4.9	9.8	12.3	14.8
167.5°	2.5	4.9	7.4	9.8	12.3
170°	2.5	4.9	7.4	7.4	9.8
172.5°	2.5	4.9	4.9	4.9	4.9
175°	4.9	4.9	4.9	4.9	2.5
177.5°	4.9	4.9	4.9	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)