

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: P566431

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-LC-UNV-L835-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

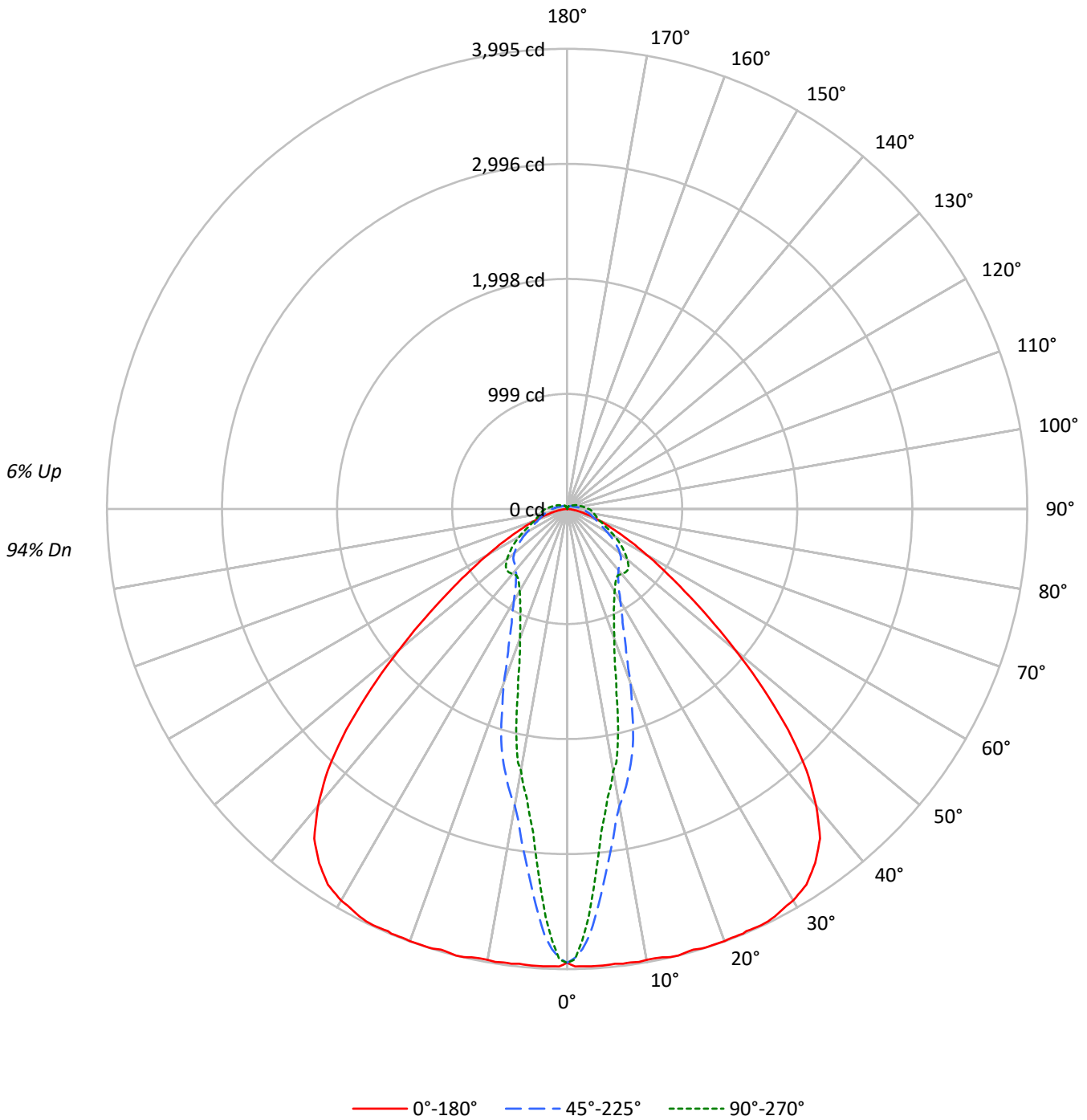
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4857.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
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

TEST NUMBER: P566431
CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566431

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42412	42412	42412
5°	42795	34836	31181
10°	43131	26298	22567
15°	43917	21496	15627
20°	45050	15555	11037
25°	46456	11143	8682
30°	47642	8904	7394
35°	47925	7531	6623
40°	45689	6846	6639
45°	39648	6614	6820
50°	30417	6291	6364
55°	22043	5501	5647
60°	15993	4591	4775
65°	11639	3882	3914
70°	8576	3429	3375
75°	6093	3174	3145
80°	3996	2973	3099
85°	1874	2834	3103



TEST NUMBER: P566431

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	6.4
10°-20°	672.9	13.9
20°-30°	770.2	15.9
30°-40°	771.6	15.9
40°-50°	730.4	15.0
50°-60°	560.2	11.5
60°-70°	361.1	7.4
70°-80°	230.3	4.7
80°-90°	152.9	3.1
90°-100°	102.8	2.1
100°-110°	67.7	1.4
110°-120°	47.1	1.0
120°-130°	32.9	0.7
130°-140°	22.8	0.5
140°-150°	14.0	0.3
150°-160°	7.1	0.1
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1753.0	36.1
0°-40°	2524.6	52.0
0°-60°	3815.2	78.5
0°-90°	4559.4	93.9
90°-120°	217.6	4.5
90°-150°	287.3	5.9
90°-180°	298.0	6.1
0°-180°	4857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3940	3940	3940	3940	3940	
5°	3975	3756	3365	3139	3054	380
15°	3985	2870	2188	1797	1653	1130
25°	3988	2031	1157	1006	958	1838
35°	3754	1130	774	749	739	2329
45°	2713	714	652	722	747	2063
55°	1244	510	503	565	587	1144
65°	498	321	316	361	373	512
75°	169	174	219	251	264	186
85°	22	80	154	202	217	31
90°	0	55	129	179	187	1
95°	0	40	107	147	154	0
105°	0	30	70	100	107	2
115°	2	25	52	72	77	2
125°	2	22	45	52	55	2
135°	2	17	35	42	45	2
145°	2	12	25	32	35	2
155°	2	8	15	22	25	1
165°	5	5	10	12	15	1
175°	5	5	5	5	2	0
180°	5	5	5	5	5	



TEST NUMBER: P566431

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3940.2	3940.2	3940.2	3940.2	3940.2
1°	3972.6	3950.2	3897.9	3912.9	3910.4
2°	3972.6	3925.3	3823.2	3793.4	3748.6
3°	3975.1	3883.0	3708.7	3611.7	3549.4
4°	3975.1	3820.8	3539.5	3377.7	3298.0
5°	3975.1	3756.0	3365.3	3138.7	3054.1
6°	3970.1	3678.9	3188.5	2949.6	2822.6
7°	3977.6	3594.3	3029.2	2772.8	2673.3
8°	3975.1	3494.7	2882.4	2638.4	2528.9
9°	3982.5	3397.6	2723.1	2511.5	2429.4
10°	3975.1	3308.0	2618.5	2392.0	2307.4
11°	3975.1	3220.9	2543.9	2314.9	2242.7
12°	3980.1	3121.3	2461.7	2205.3	2105.8
13°	3992.5	3019.3	2367.1	2085.9	1968.9
14°	3995.0	2942.1	2280.0	1934.0	1812.1
15°	3985.0	2869.9	2187.9	1797.1	1652.8
16°	3980.1	2795.3	2078.4	1667.7	1538.3
17°	3990.0	2708.1	1953.9	1535.8	1416.3
18°	3992.5	2628.5	1822.0	1436.2	1331.7
19°	3992.5	2566.3	1715.0	1344.1	1254.5
20°	3992.5	2506.5	1605.5	1274.4	1197.3
21°	3987.5	2431.8	1481.0	1202.2	1137.5
22.5°	3990.0	2292.5	1339.1	1117.6	1065.3
23°	3982.5	2257.6	1304.3	1095.2	1040.4
24°	3985.0	2158.0	1229.6	1050.4	998.1
25°	3987.5	2031.1	1157.4	1005.6	958.3
26°	3982.5	1929.0	1097.7	963.3	930.9
27°	3970.1	1846.9	1055.4	928.4	898.6
28°	3952.7	1737.4	1010.6	898.6	871.2
29°	3935.3	1612.9	965.8	866.2	846.3
30°	3925.3	1513.4	923.5	841.3	823.9
32.5°	3865.6	1316.7	836.3	791.5	776.6
35°	3753.6	1130.0	774.1	749.2	739.3
37.5°	3606.7	985.7	726.8	721.8	724.3
40°	3365.3	871.2	692.0	714.4	736.8
42.5°	3076.5	781.6	667.1	721.8	746.7
45°	2713.1	714.4	652.1	721.8	746.7
47.5°	2309.9	659.6	634.7	696.9	721.8
50°	1906.6	609.8	599.9	659.6	682.0
52.5°	1550.7	562.5	555.1	612.3	634.7
55°	1244.5	510.3	502.8	565.0	587.4
57.5°	998.1	460.5	453.0	510.3	532.7
60°	796.5	410.7	398.3	455.5	477.9
62.5°	634.7	363.4	355.9	405.7	425.6
65°	497.8	321.1	316.1	360.9	373.4



TEST NUMBER: P566431

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	393.3	281.3	283.8	321.1	336.0
70°	303.7	243.9	258.9	293.7	303.7
72.5°	229.0	206.6	239.0	268.8	281.3
75°	169.3	174.2	219.0	251.4	263.8
77.5°	117.0	144.4	201.6	236.5	248.9
80°	79.7	117.0	184.2	224.0	239.0
82.5°	47.3	97.1	169.3	211.6	229.0
85°	22.4	79.7	154.3	201.6	216.6
87.5°	7.5	64.7	139.4	191.7	204.1
90°	0.0	54.8	129.4	179.2	186.7
92.5°	0.0	47.3	117.0	164.3	169.3
95°	0.0	39.8	107.0	146.9	154.3
97.5°	0.0	37.3	99.6	131.9	141.9
100°	0.0	34.8	89.6	119.5	129.4
102.5°	0.0	29.9	79.7	107.0	117.0
105°	0.0	29.9	69.7	99.6	107.0
107.5°	2.5	27.4	64.7	89.6	99.6
110°	2.5	27.4	57.2	84.6	92.1
112.5°	2.5	27.4	54.8	77.2	87.1
115°	2.5	24.9	52.3	72.2	77.2
117.5°	2.5	24.9	49.8	64.7	69.7
120°	2.5	22.4	47.3	59.7	62.2
122.5°	2.5	22.4	44.8	54.8	57.2
125°	2.5	22.4	44.8	52.3	54.8
127.5°	2.5	19.9	42.3	49.8	49.8
130°	2.5	19.9	39.8	47.3	47.3
132.5°	2.5	17.4	37.3	44.8	47.3
135°	2.5	17.4	34.8	42.3	44.8
137.5°	2.5	14.9	32.4	39.8	42.3
140°	2.5	14.9	29.9	37.3	39.8
142.5°	2.5	12.4	27.4	34.8	37.3
145°	2.5	12.4	24.9	32.4	34.8
147.5°	2.5	12.4	22.4	29.9	32.4
150°	2.5	10.0	19.9	27.4	29.9
152.5°	2.5	10.0	17.4	24.9	27.4
155°	2.5	7.5	14.9	22.4	24.9
157.5°	2.5	7.5	14.9	19.9	22.4
160°	5.0	7.5	12.4	17.4	19.9
162.5°	2.5	5.0	12.4	14.9	17.4
165°	5.0	5.0	10.0	12.4	14.9
167.5°	5.0	5.0	7.5	10.0	12.4
170°	5.0	5.0	7.5	7.5	10.0
172.5°	5.0	5.0	5.0	7.5	5.0
175°	5.0	5.0	5.0	5.0	2.5
177.5°	5.0	5.0	5.0	5.0	2.5



TEST NUMBER: P566431

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)