

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: P566440

Luminaire Tested: **4SNX-45SL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566440
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-L840-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

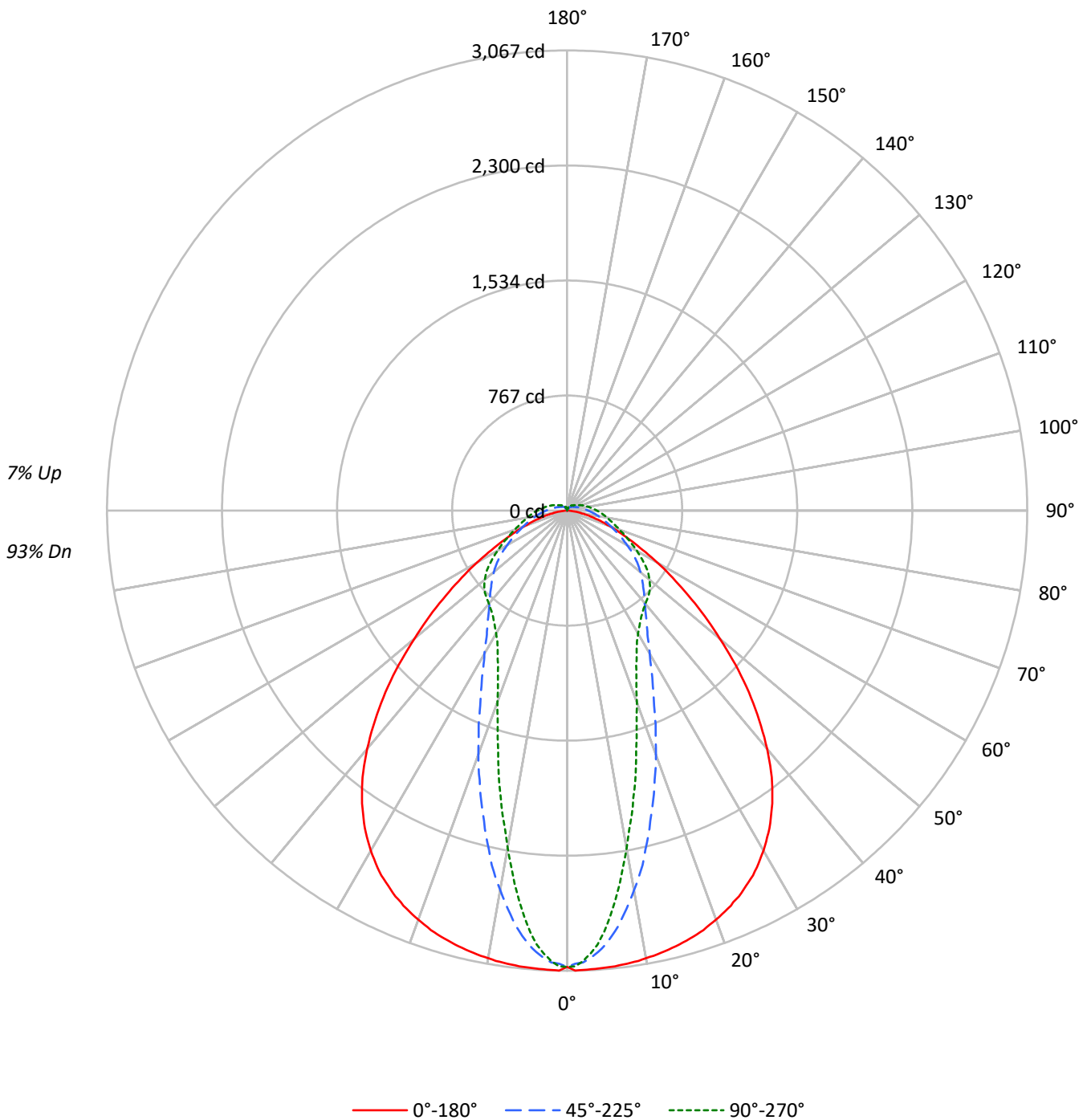
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4848.0 lumens
Efficiency: N/A
Efficacy: 162.7 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

TEST NUMBER: P566440
CATALOG NUMBER: 4SNX-45SL-LN-UNV-L840-CD

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°	32736	32736	32736
5°	32906	30087	28793
10°	32861	25797	22339
15°	32845	21044	16743
20°	32740	16764	12530
25°	32443	13136	9944
30°	31763	10631	8483
35°	30428	8997	7716
40°	28148	7943	7303
45°	25026	7267	7077
50°	21199	6687	6686
55°	17417	6060	6106
60°	13927	5330	5356
65°	10811	4680	4661
70°	8395	4139	4123
75°	6493	3719	3757
80°	4588	3404	3492
85°	2552	3173	3350



TEST NUMBER: P566440

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	5.6
10°-20°	631.3	13.0
20°-30°	749.4	15.5
30°-40°	753.9	15.6
40°-50°	700.8	14.5
50°-60°	577.1	11.9
60°-70°	406.6	8.4
70°-80°	265.7	5.5
80°-90°	169.6	3.5
90°-100°	111.2	2.3
100°-110°	75.5	1.6
110°-120°	51.8	1.1
120°-130°	35.8	0.7
130°-140°	24.1	0.5
140°-150°	14.8	0.3
150°-160°	7.7	0.2
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1650.0	34.0
0°-40°	2403.9	49.6
0°-60°	3681.9	75.9
0°-90°	4523.8	93.3
90°-120°	238.5	4.9
90°-150°	313.3	6.5
90°-180°	324.0	6.7
0°-180°	4848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3041	3041	3041	3041	3041	
5°	3056	3016	2907	2851	2820	291
15°	2980	2663	2142	1872	1771	842
25°	2785	2058	1364	1146	1098	1281
35°	2383	1392	925	866	861	1482
45°	1712	917	716	755	775	1315
55°	983	602	554	615	635	888
65°	462	363	381	429	445	469
75°	180	188	257	302	315	195
85°	30	86	173	224	234	38
90°	0	58	140	191	198	2
95°	0	43	117	160	168	0
105°	0	30	79	112	122	0
115°	2	25	56	81	86	2
125°	2	20	46	58	64	2
135°	2	18	36	46	48	2
145°	2	13	25	36	38	2
155°	2	10	18	25	28	1
165°	2	5	10	13	15	1
175°	5	5	5	5	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566440

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3041.3	3041.3	3041.3	3041.3	3041.3
1°	3066.7	3054.0	3021.0	3043.8	3038.8
2°	3064.2	3051.5	3013.3	3023.5	3005.7
3°	3061.6	3043.8	2985.4	2982.9	2957.5
4°	3059.1	3031.1	2949.8	2919.3	2899.0
5°	3056.5	3015.9	2906.6	2850.7	2820.2
6°	3054.0	2998.1	2850.7	2766.9	2723.7
7°	3048.9	2970.2	2792.3	2678.0	2622.1
8°	3043.8	2944.7	2718.6	2581.4	2512.8
9°	3038.8	2911.7	2644.9	2477.2	2395.9
10°	3028.6	2878.7	2568.7	2370.5	2284.1
11°	3023.5	2840.6	2495.0	2268.9	2167.3
12°	3013.3	2799.9	2416.3	2162.2	2073.3
13°	3003.2	2756.7	2319.7	2070.7	1964.0
14°	2993.0	2711.0	2235.9	1969.1	1870.0
15°	2980.3	2662.7	2141.9	1872.5	1770.9
16°	2967.6	2606.8	2058.0	1773.5	1666.7
17°	2954.9	2553.5	1979.3	1682.0	1585.4
18°	2939.7	2500.1	1887.8	1593.1	1499.1
19°	2919.3	2439.1	1814.1	1511.8	1425.4
20°	2901.6	2383.2	1730.3	1435.5	1359.3
21°	2881.2	2314.6	1646.4	1364.4	1288.2
22.5°	2850.7	2218.1	1539.7	1275.5	1204.3
23°	2835.5	2190.1	1496.5	1242.4	1181.5
24°	2815.2	2116.5	1425.4	1191.6	1130.6
25°	2784.7	2058.0	1364.4	1145.9	1097.6
26°	2756.7	1986.9	1303.4	1105.2	1057.0
27°	2728.8	1918.3	1250.1	1062.0	1021.4
28°	2693.2	1847.1	1191.6	1026.5	990.9
29°	2655.1	1781.1	1143.3	996.0	968.0
30°	2617.0	1707.4	1102.7	968.0	945.2
32.5°	2510.3	1544.8	998.5	914.7	899.4
35°	2383.2	1392.3	924.8	866.4	861.3
37.5°	2241.0	1252.6	858.8	828.3	833.4
40°	2073.3	1125.6	802.9	800.3	810.5
42.5°	1895.4	1016.3	759.7	777.5	792.7
45°	1712.5	917.2	716.5	754.6	774.9
47.5°	1521.9	830.8	678.4	726.7	749.5
50°	1328.8	747.0	637.7	693.6	716.5
52.5°	1156.0	673.3	597.1	655.5	680.9
55°	983.3	602.2	553.9	614.9	635.2
57.5°	833.4	536.1	508.2	569.1	584.4
60°	693.6	472.6	462.4	518.3	536.1
62.5°	566.6	416.7	419.2	472.6	490.4
65°	462.4	363.3	381.1	429.4	444.6



TEST NUMBER: P566440

CATALOG NUMBER: 4SNX-45SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	376.0	312.5	343.0	393.8	406.5
70°	297.3	266.8	312.5	358.2	371.0
72.5°	236.3	226.1	282.0	330.3	340.5
75°	180.4	188.0	256.6	302.4	315.1
77.5°	129.6	157.5	231.2	279.5	289.6
80°	91.5	129.6	210.9	259.2	269.3
82.5°	58.4	106.7	190.6	241.4	251.5
85°	30.5	86.4	172.8	223.6	233.8
87.5°	12.7	71.1	155.0	205.8	216.0
90°	0.0	58.4	139.7	190.6	198.2
92.5°	0.0	50.8	127.0	175.3	182.9
95°	0.0	43.2	116.9	160.1	167.7
97.5°	0.0	40.7	104.2	147.4	155.0
100°	0.0	35.6	94.0	134.7	144.8
102.5°	0.0	33.0	86.4	122.0	132.1
105°	0.0	30.5	78.8	111.8	122.0
107.5°	0.0	27.9	73.7	104.2	111.8
110°	0.0	27.9	66.1	96.5	104.2
112.5°	2.5	25.4	61.0	86.4	94.0
115°	2.5	25.4	55.9	81.3	86.4
117.5°	2.5	25.4	53.4	73.7	78.8
120°	2.5	22.9	50.8	68.6	73.7
122.5°	2.5	22.9	48.3	63.5	66.1
125°	2.5	20.3	45.7	58.4	63.5
127.5°	2.5	20.3	43.2	55.9	58.4
130°	2.5	20.3	40.7	50.8	55.9
132.5°	2.5	17.8	38.1	48.3	50.8
135°	2.5	17.8	35.6	45.7	48.3
137.5°	2.5	15.2	33.0	43.2	45.7
140°	2.5	15.2	30.5	40.7	43.2
142.5°	2.5	12.7	27.9	38.1	40.7
145°	2.5	12.7	25.4	35.6	38.1
147.5°	2.5	12.7	22.9	33.0	35.6
150°	2.5	10.2	20.3	30.5	33.0
152.5°	2.5	10.2	17.8	27.9	30.5
155°	2.5	10.2	17.8	25.4	27.9
157.5°	2.5	7.6	15.2	20.3	25.4
160°	2.5	7.6	12.7	17.8	22.9
162.5°	2.5	7.6	12.7	15.2	17.8
165°	2.5	5.1	10.2	12.7	15.2
167.5°	2.5	5.1	7.6	10.2	12.7
170°	2.5	5.1	7.6	7.6	10.2
172.5°	2.5	5.1	5.1	5.1	5.1
175°	5.1	5.1	5.1	5.1	2.5
177.5°	5.1	5.1	5.1	2.5	2.5



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CATALOG NUMBER: 4SNX-45SL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)