

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: P566453

Luminaire Tested: **4SNX-45SL-LW-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-LW-UNV-L950-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

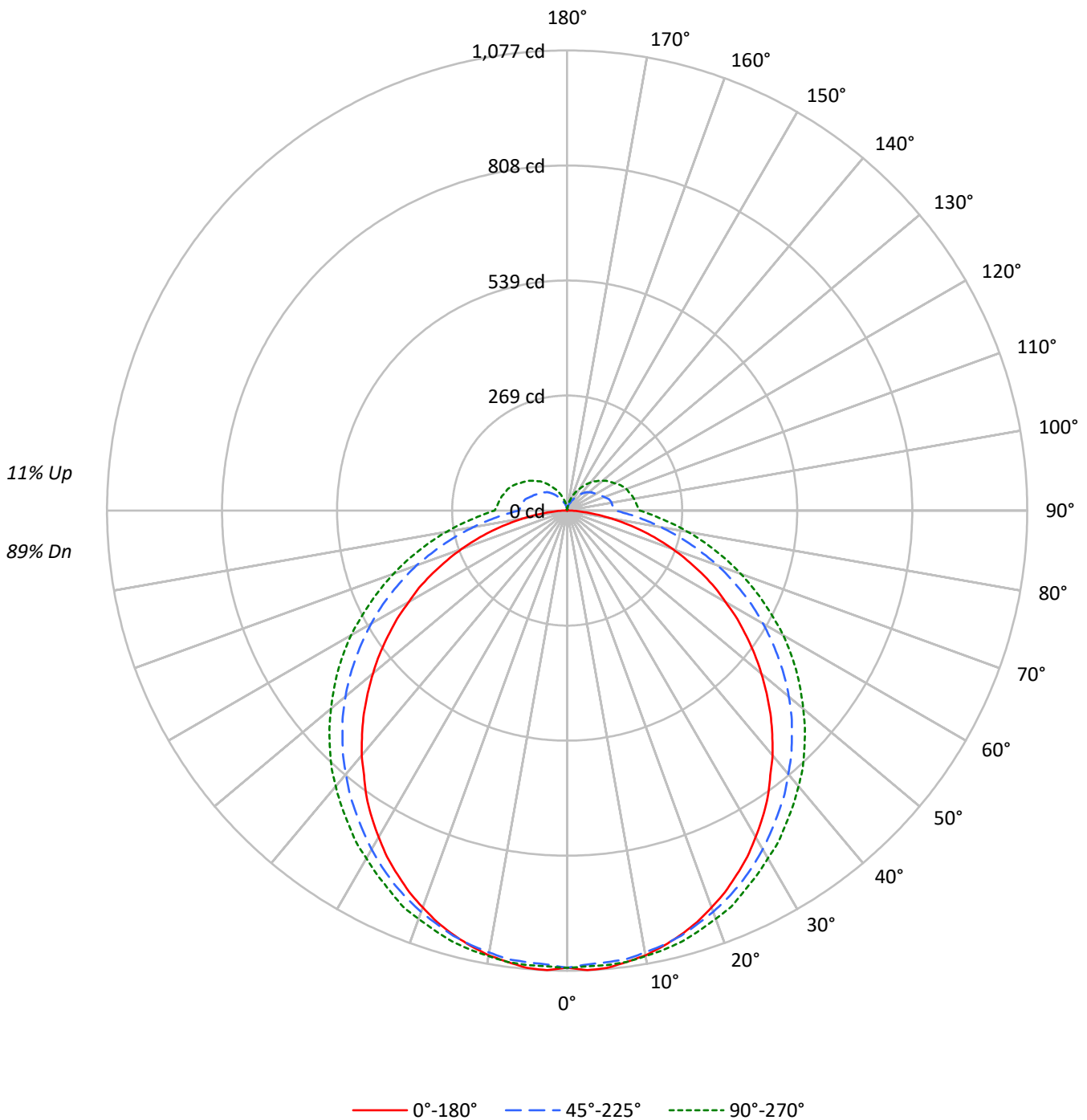
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3809.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11517	11517	11517
5°	11567	10984	10902
10°	11465	10546	10356
15°	11329	10122	9866
20°	11152	9683	9375
25°	10949	9261	8894
30°	10710	8826	8434
35°	10450	8392	8004
40°	10154	7966	7593
45°	9833	7541	7173
50°	9467	7102	6732
55°	9065	6613	6299
60°	8594	6104	5841
65°	8099	5553	5319
70°	7413	4967	4806
75°	6511	4285	4261
80°	5089	3596	3718
85°	3321	2957	3161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	2.7
10°-20°	292.1	7.7
20°-30°	444.2	11.7
30°-40°	539.2	14.2
40°-50°	569.7	15.0
50°-60°	533.1	14.0
60°-70°	437.5	11.5
70°-80°	300.9	7.9
80°-90°	164.8	4.3
90°-100°	106.1	2.8
100°-110°	95.2	2.5
110°-120°	78.8	2.1
120°-130°	60.7	1.6
130°-140°	42.6	1.1
140°-150°	25.7	0.7
150°-160°	12.3	0.3
160°-170°	4.0	0.1
170°-180°	0.5	0.0
0°-30°	837.9	22.0
0°-40°	1377.1	36.2
0°-60°	2479.9	65.1
0°-90°	3383.0	88.8
90°-120°	280.1	7.4
90°-150°	409.1	10.7
90°-180°	426.0	11.2
0°-180°	3809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1074	1072	1061	1070	1068	102
15°	1028	1032	1030	1044	1044	290
25°	940	951	962	982	982	433
35°	818	838	863	887	894	511
45°	673	704	744	776	785	519
55°	512	554	604	642	655	458
65°	346	393	452	494	507	343
75°	181	229	296	342	357	190
85°	40	95	161	205	221	46
90°	0	53	112	154	170	3
95°	0	51	108	148	163	0
105°	0	42	102	139	152	1
115°	2	38	86	124	139	2
125°	2	31	73	106	119	2
135°	2	24	60	86	97	2
145°	2	18	42	66	73	1
155°	2	11	26	42	48	1
165°	2	7	13	20	24	1
175°	2	2	4	4	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-45SL-LW-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1076.6	1074.4	1063.3	1072.2	1067.8
5°	1074.4	1072.2	1061.1	1070.0	1067.8
7.5°	1065.5	1065.5	1058.9	1067.8	1065.5
10°	1056.7	1056.7	1050.1	1061.1	1058.9
12.5°	1043.5	1045.7	1041.3	1054.5	1052.3
15°	1028.0	1032.5	1030.2	1043.5	1043.5
17.5°	1010.4	1014.8	1014.8	1030.2	1030.2
20°	988.3	994.9	999.4	1017.0	1017.0
22.5°	966.3	975.1	981.7	997.2	1003.8
25°	939.8	950.8	961.9	981.7	981.7
27.5°	913.3	926.6	939.8	959.7	961.9
30°	882.4	897.9	915.5	935.4	939.8
32.5°	851.6	871.4	889.1	913.3	919.9
35°	818.5	838.3	862.6	886.9	893.5
37.5°	781.0	805.2	836.1	862.6	869.2
40°	747.9	774.3	805.2	836.1	842.7
42.5°	710.4	739.0	776.5	805.2	816.3
45°	672.9	703.7	743.5	776.5	785.4
47.5°	633.1	668.4	712.6	743.5	754.5
50°	593.4	630.9	677.3	712.6	721.4
52.5°	553.7	593.4	642.0	677.3	688.3
55°	511.8	553.7	604.5	642.0	655.2
57.5°	472.1	514.0	567.0	606.7	619.9
60°	428.0	476.5	529.5	569.2	584.6
62.5°	390.5	434.6	492.0	531.7	544.9
65°	346.4	392.7	452.2	494.2	507.4
67.5°	304.4	353.0	412.5	456.7	469.9
70°	262.5	311.1	375.0	417.0	432.4
72.5°	220.6	271.3	333.1	379.4	394.9
75°	180.9	229.4	295.6	341.9	357.4
77.5°	139.0	191.9	258.1	304.4	322.1
80°	101.5	156.6	222.8	269.1	286.8
82.5°	68.4	123.5	189.7	236.1	253.7
85°	39.7	94.9	161.0	205.2	220.6
87.5°	19.9	72.8	134.6	178.7	194.1
90°	0.0	52.9	112.5	154.4	169.9
92.5°	0.0	50.7	110.3	150.0	165.5
95°	0.0	50.7	108.1	147.8	163.3
97.5°	0.0	48.5	105.9	147.8	161.0
100°	0.0	46.3	105.9	145.6	158.8
102.5°	0.0	44.1	103.7	143.4	156.6
105°	0.0	41.9	101.5	139.0	152.2
107.5°	2.2	41.9	97.1	136.8	150.0
110°	2.2	39.7	92.7	134.6	147.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	37.5	88.2	130.2	143.4
115°	2.2	37.5	86.0	123.5	139.0
117.5°	2.2	35.3	81.6	119.1	134.6
120°	2.2	35.3	79.4	114.7	128.0
122.5°	2.2	33.1	75.0	110.3	123.5
125°	2.2	30.9	72.8	105.9	119.1
127.5°	2.2	28.7	70.6	101.5	114.7
130°	2.2	26.5	66.2	97.1	108.1
132.5°	2.2	26.5	64.0	90.4	103.7
135°	2.2	24.3	59.6	86.0	97.1
137.5°	2.2	22.1	55.2	81.6	92.7
140°	2.2	19.9	50.7	77.2	86.0
142.5°	2.2	19.9	46.3	70.6	79.4
145°	2.2	17.6	41.9	66.2	72.8
147.5°	2.2	15.4	37.5	59.6	66.2
150°	2.2	15.4	33.1	52.9	59.6
152.5°	2.2	13.2	28.7	48.5	55.2
155°	2.2	11.0	26.5	41.9	48.5
157.5°	2.2	11.0	22.1	35.3	41.9
160°	2.2	8.8	19.9	28.7	35.3
162.5°	2.2	8.8	17.6	24.3	30.9
165°	2.2	6.6	13.2	19.9	24.3
167.5°	2.2	6.6	11.0	15.4	19.9
170°	2.2	4.4	8.8	11.0	15.4
172.5°	2.2	4.4	6.6	6.6	6.6
175°	2.2	2.2	4.4	4.4	2.2
177.5°	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)