

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: P566446

Luminaire Tested: **4SNX-45SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566446
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-L830-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

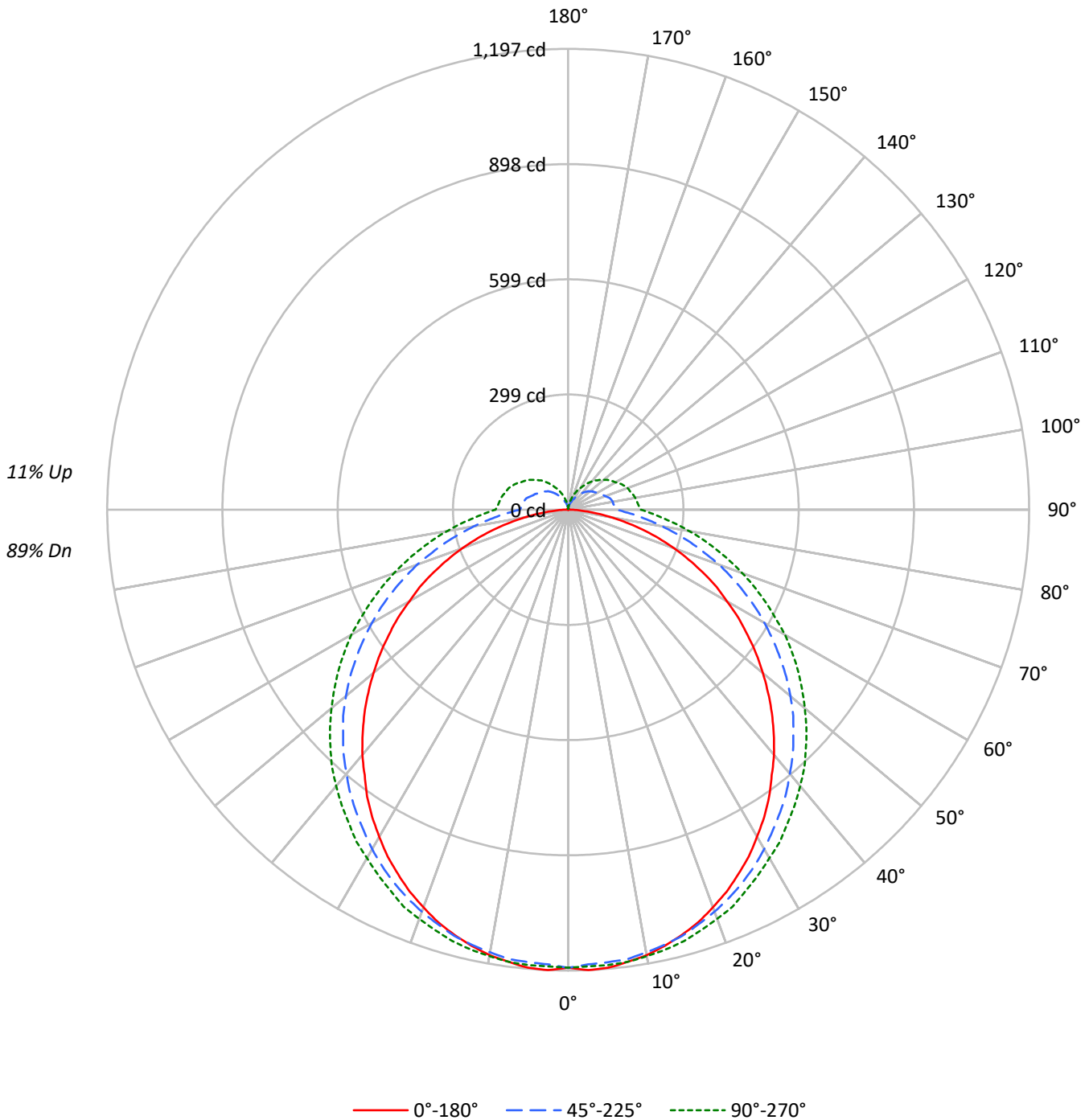
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.0 lumens
Efficiency: N/A
Efficacy: 142.1 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	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	76	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°	12805	12805	12805
5°	12860	12213	12121
10°	12748	11725	11515
15°	12597	11255	10969
20°	12400	10765	10424
25°	12173	10296	9889
30°	11908	9814	9378
35°	11619	9331	8899
40°	11289	8857	8443
45°	10932	8384	7975
50°	10526	7896	7485
55°	10080	7353	7003
60°	9553	6786	6494
65°	9004	6174	5914
70°	8243	5523	5344
75°	7238	4764	4738
80°	5656	3998	4135
85°	3698	3289	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	2.7
10°-20°	324.8	7.7
20°-30°	493.8	11.7
30°-40°	599.5	14.2
40°-50°	633.5	15.0
50°-60°	592.8	14.0
60°-70°	486.4	11.5
70°-80°	334.5	7.9
80°-90°	183.2	4.3
90°-100°	118.0	2.8
100°-110°	105.9	2.5
110°-120°	87.6	2.1
120°-130°	67.5	1.6
130°-140°	47.4	1.1
140°-150°	28.6	0.7
150°-160°	13.7	0.3
160°-170°	4.5	0.1
170°-180°	0.5	0.0
0°-30°	931.6	22.0
0°-40°	1531.1	36.2
0°-60°	2757.3	65.1
0°-90°	3761.4	88.8
90°-120°	311.5	7.4
90°-150°	454.9	10.7
90°-180°	474.0	11.2
0°-180°	4235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1194	1192	1180	1190	1187	113
15°	1143	1148	1146	1160	1160	322
25°	1045	1057	1069	1092	1092	481
35°	910	932	959	986	993	568
45°	748	782	827	863	873	577
55°	569	616	672	714	728	509
65°	385	437	503	549	564	381
75°	201	255	329	380	397	212
85°	44	106	179	228	245	51
90°	0	59	125	172	189	3
95°	0	56	120	164	182	0
105°	0	47	113	154	169	2
115°	2	42	96	137	154	2
125°	2	34	81	118	132	2
135°	2	27	66	96	108	2
145°	2	20	47	74	81	2
155°	2	12	29	47	54	1
165°	2	7	15	22	27	1
175°	2	2	5	5	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-45SL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.6	1189.6	1189.6	1189.6	1189.6
2.5°	1197.0	1194.5	1182.3	1192.1	1187.2
5°	1194.5	1192.1	1179.8	1189.6	1187.2
7.5°	1184.7	1184.7	1177.4	1187.2	1184.7
10°	1174.9	1174.9	1167.5	1179.8	1177.4
12.5°	1160.2	1162.6	1157.7	1172.5	1170.0
15°	1143.0	1147.9	1145.5	1160.2	1160.2
17.5°	1123.4	1128.3	1128.3	1145.5	1145.5
20°	1098.9	1106.2	1111.1	1130.8	1130.8
22.5°	1074.3	1084.1	1091.5	1108.7	1116.0
25°	1044.9	1057.2	1069.4	1091.5	1091.5
27.5°	1015.5	1030.2	1044.9	1067.0	1069.4
30°	981.1	998.3	1017.9	1040.0	1044.9
32.5°	946.8	968.9	988.5	1015.5	1022.8
35°	910.0	932.1	959.1	986.0	993.4
37.5°	868.3	895.3	929.6	959.1	966.4
40°	831.5	860.9	895.3	929.6	937.0
42.5°	789.8	821.7	863.4	895.3	907.5
45°	748.1	782.5	826.6	863.4	873.2
47.5°	704.0	743.2	792.3	826.6	838.9
50°	659.8	701.5	753.0	792.3	802.1
52.5°	615.7	659.8	713.8	753.0	765.3
55°	569.1	615.7	672.1	713.8	728.5
57.5°	524.9	571.5	630.4	674.5	689.2
60°	475.8	529.8	588.7	632.8	650.0
62.5°	434.2	483.2	547.0	591.1	605.8
65°	385.1	436.6	502.8	549.4	564.2
67.5°	338.5	392.5	458.7	507.7	522.5
70°	291.9	345.8	417.0	463.6	480.8
72.5°	245.3	301.7	370.4	421.9	439.1
75°	201.1	255.1	328.7	380.2	397.4
77.5°	154.5	213.4	287.0	338.5	358.1
80°	112.8	174.2	247.7	299.2	318.9
82.5°	76.0	137.4	210.9	262.5	282.1
85°	44.2	105.5	179.1	228.1	245.3
87.5°	22.1	80.9	149.6	198.7	215.8
90°	0.0	58.9	125.1	171.7	188.9
92.5°	0.0	56.4	122.6	166.8	184.0
95°	0.0	56.4	120.2	164.3	181.5
97.5°	0.0	54.0	117.7	164.3	179.1
100°	0.0	51.5	117.7	161.9	176.6
102.5°	0.0	49.1	115.3	159.4	174.2
105°	0.0	46.6	112.8	154.5	169.2
107.5°	2.5	46.6	107.9	152.1	166.8
110°	2.5	44.2	103.0	149.6	164.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	41.7	98.1	144.7	159.4
115°	2.5	41.7	95.7	137.4	154.5
117.5°	2.5	39.2	90.8	132.5	149.6
120°	2.5	39.2	88.3	127.5	142.3
122.5°	2.5	36.8	83.4	122.6	137.4
125°	2.5	34.3	80.9	117.7	132.5
127.5°	2.5	31.9	78.5	112.8	127.5
130°	2.5	29.4	73.6	107.9	120.2
132.5°	2.5	29.4	71.1	100.6	115.3
135°	2.5	27.0	66.2	95.7	107.9
137.5°	2.5	24.5	61.3	90.8	103.0
140°	2.5	22.1	56.4	85.8	95.7
142.5°	2.5	22.1	51.5	78.5	88.3
145°	2.5	19.6	46.6	73.6	80.9
147.5°	2.5	17.2	41.7	66.2	73.6
150°	2.5	17.2	36.8	58.9	66.2
152.5°	2.5	14.7	31.9	54.0	61.3
155°	2.5	12.3	29.4	46.6	54.0
157.5°	2.5	12.3	24.5	39.2	46.6
160°	2.5	9.8	22.1	31.9	39.2
162.5°	2.5	9.8	19.6	27.0	34.3
165°	2.5	7.4	14.7	22.1	27.0
167.5°	2.5	7.4	12.3	17.2	22.1
170°	2.5	4.9	9.8	12.3	17.2
172.5°	2.5	4.9	7.4	7.4	7.4
175°	2.5	2.5	4.9	4.9	2.5
177.5°	2.5	2.5	2.5	2.5	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)