

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: P566959

Luminaire Tested: **4SNX-90HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-LC-UNV-L835-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

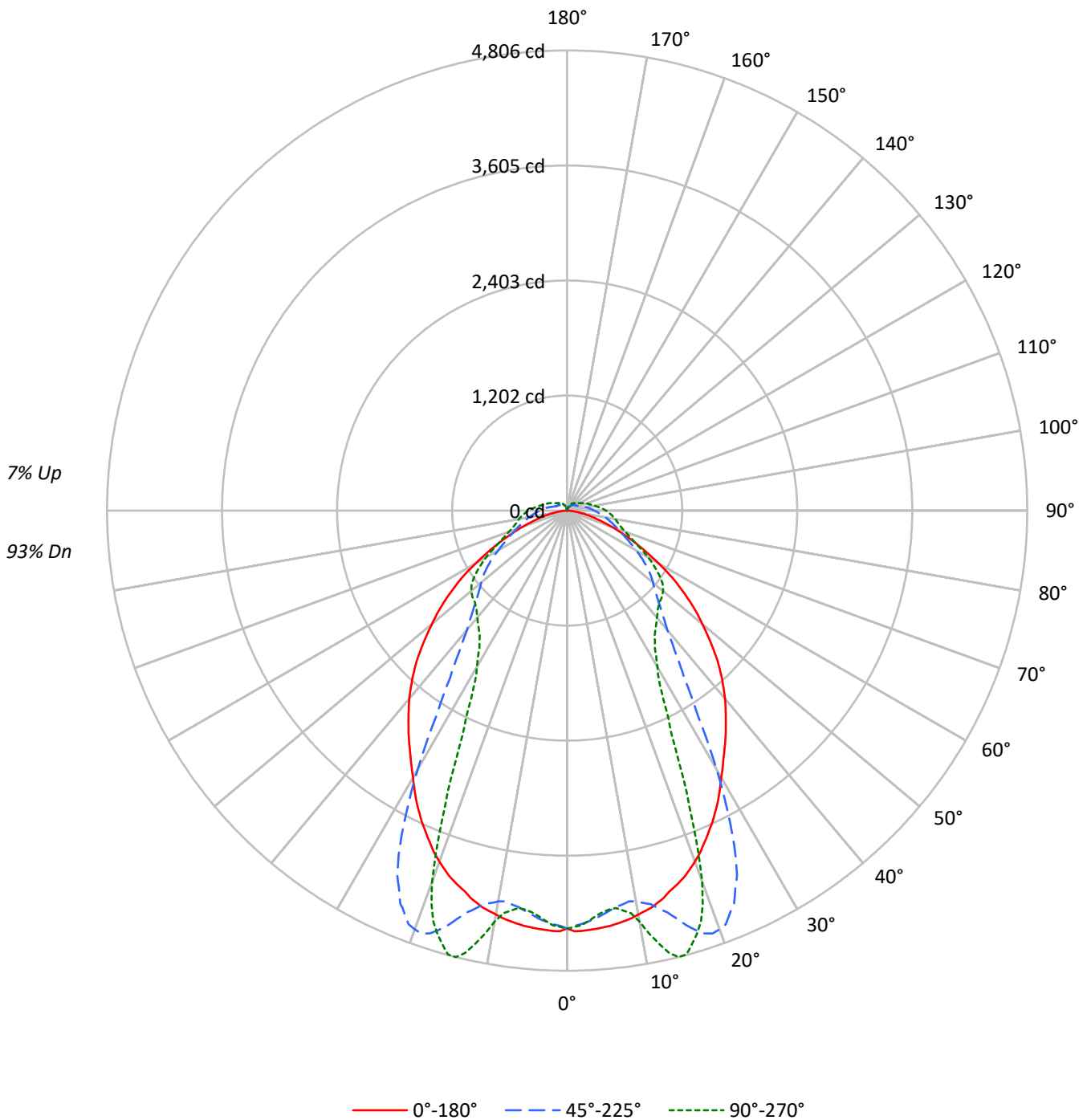
Lumens per Lamp: N/A
Luminaire Lumens: 9701.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 64.4
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	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	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46984	46984	46984
5°	47040	43850	43007
10°	46477	41636	42647
15°	45395	43308	45400
20°	44022	45103	37997
25°	41811	40429	23363
30°	39065	30088	16908
35°	36820	20750	14264
40°	34809	16089	13146
45°	32467	13685	12432
50°	29418	12270	12205
55°	26209	11084	11292
60°	22097	9578	9767
65°	17835	8330	8151
70°	13845	7474	7177
75°	10556	6934	6694
80°	7205	6550	6625
85°	3714	6229	6579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	4.2
10°-20°	1241.1	12.8
20°-30°	1671.2	17.2
30°-40°	1581.6	16.3
40°-50°	1396.0	14.4
50°-60°	1133.8	11.7
60°-70°	771.1	7.9
70°-80°	496.2	5.1
80°-90°	329.9	3.4
90°-100°	226.8	2.3
100°-110°	152.2	1.6
110°-120°	107.4	1.1
120°-130°	76.7	0.8
130°-140°	54.1	0.6
140°-150°	33.6	0.3
150°-160°	16.4	0.2
160°-170°	5.7	0.1
170°-180°	1.0	0.0
0°-30°	3318.5	34.2
0°-40°	4900.0	50.5
0°-60°	7429.9	76.6
0°-90°	9027.2	93.1
90°-120°	486.3	5.0
90°-150°	650.7	6.7
90°-180°	674.0	6.9
0°-180°	9701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4365	4365	4365	4365	4365	
5°	4369	4329	4236	4233	4212	414
15°	4119	4092	4408	4798	4802	1161
25°	3589	4255	4199	3050	2579	1647
35°	2884	4046	2133	1643	1592	1805
45°	2222	2722	1349	1333	1361	1706
55°	1480	1610	1013	1132	1175	1321
65°	763	868	678	754	778	766
75°	293	410	478	536	561	319
85°	44	175	339	430	459	58
90°	2	122	283	381	406	3
95°	2	93	238	323	345	1
105°	3	65	157	221	247	3
115°	3	56	116	164	185	3
125°	4	47	99	124	133	4
135°	6	37	82	104	110	5
145°	6	27	58	80	87	4
155°	7	16	36	53	61	3
165°	7	10	19	27	33	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4365.0	4365.0	4365.0	4365.0	4365.0
1°	4394.6	4381.3	4336.8	4360.5	4348.7
2°	4393.1	4370.9	4320.5	4347.2	4332.4
3°	4385.7	4362.0	4296.8	4313.1	4290.9
4°	4378.3	4350.2	4271.7	4271.7	4246.5
5°	4369.4	4329.4	4236.1	4233.1	4212.4
6°	4359.0	4313.1	4205.0	4202.0	4190.2
7°	4344.2	4285.0	4170.9	4191.7	4182.8
8°	4326.5	4258.3	4153.2	4205.0	4218.3
9°	4310.2	4225.7	4132.4	4246.5	4256.8
10°	4283.5	4196.1	4145.8	4329.4	4360.5
11°	4261.3	4170.9	4175.4	4410.9	4504.2
12°	4239.1	4144.3	4203.5	4513.1	4627.1
13°	4202.0	4123.5	4265.7	4624.2	4741.2
14°	4169.5	4107.3	4326.5	4736.7	4806.4
15°	4119.1	4092.4	4407.9	4797.5	4801.9
16°	4085.0	4082.1	4502.7	4801.9	4719.0
17°	4046.5	4077.6	4579.7	4724.9	4627.1
18°	4003.6	4086.5	4643.4	4628.6	4516.1
19°	3954.7	4095.4	4670.1	4495.3	4350.2
20°	3901.4	4108.7	4655.3	4356.1	4122.1
21°	3848.0	4126.5	4627.1	4209.5	3822.9
22.5°	3748.8	4169.5	4493.8	3797.7	3328.2
23°	3720.7	4178.3	4462.7	3668.8	3199.3
24°	3651.1	4215.4	4320.5	3368.2	2858.6
25°	3588.8	4255.4	4199.1	3049.7	2578.7
26°	3519.2	4285.0	4015.4	2756.4	2406.9
27°	3451.1	4302.8	3806.6	2528.3	2214.3
28°	3372.6	4322.0	3580.0	2331.3	2069.2
29°	3298.5	4325.0	3356.3	2174.3	1955.1
30°	3218.6	4310.2	3120.8	2048.4	1884.0
32.5°	3043.8	4228.7	2544.6	1808.5	1706.3
35°	2883.8	4046.5	2132.9	1642.6	1592.2
37.5°	2722.4	3759.2	1844.0	1538.9	1522.6
40°	2563.9	3418.5	1626.3	1456.0	1458.9
42.5°	2396.5	3067.5	1476.7	1387.8	1401.2
45°	2221.7	2722.4	1349.3	1333.0	1361.2
47.5°	2027.7	2406.9	1248.6	1297.5	1340.4
50°	1844.0	2094.4	1170.1	1263.4	1307.9
52.5°	1669.3	1838.1	1099.0	1205.7	1257.5
55°	1479.7	1610.0	1013.1	1131.6	1174.6
57.5°	1299.0	1404.1	922.8	1039.8	1078.3
60°	1100.5	1201.2	830.9	940.5	977.6
62.5°	921.3	1027.9	752.4	841.3	870.9
65°	762.8	868.0	678.4	753.9	777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	622.1	734.7	617.6	681.3	703.5
70°	490.3	608.8	564.3	622.1	645.8
72.5°	383.6	503.6	519.9	573.2	596.9
75°	293.3	410.3	478.4	536.2	561.4
77.5°	217.7	334.7	439.9	506.6	533.2
80°	143.7	266.6	405.8	479.9	511.0
82.5°	90.4	214.8	371.8	453.2	485.8
85°	44.4	174.8	339.2	429.5	459.2
87.5°	14.8	145.2	309.6	405.8	431.0
90°	1.5	121.5	282.9	380.7	405.8
92.5°	1.5	105.2	260.7	351.0	376.2
95°	1.5	93.3	238.5	322.9	345.1
97.5°	1.5	84.4	217.7	293.3	317.0
100°	1.5	75.5	195.5	265.1	290.3
102.5°	3.0	69.6	176.3	241.4	268.1
105°	3.0	65.2	157.0	220.7	247.4
107.5°	3.0	62.2	140.7	204.4	229.6
110°	3.0	59.2	128.9	189.6	216.2
112.5°	3.0	57.8	121.5	176.3	201.4
115°	3.0	56.3	115.5	164.4	185.1
117.5°	4.4	54.8	111.1	152.6	168.9
120°	4.4	51.8	108.1	142.2	155.5
122.5°	4.4	48.9	103.7	133.3	143.7
125°	4.4	47.4	99.2	124.4	133.3
127.5°	4.4	44.4	94.8	117.0	125.9
130°	5.9	41.5	90.4	111.1	118.5
132.5°	5.9	38.5	85.9	108.1	114.0
135°	5.9	37.0	81.5	103.7	109.6
137.5°	5.9	34.1	77.0	99.2	105.2
140°	5.9	31.1	71.1	93.3	99.2
142.5°	5.9	29.6	65.2	87.4	93.3
145°	5.9	26.7	57.8	80.0	87.4
147.5°	7.4	25.2	51.8	74.1	80.0
150°	7.4	22.2	45.9	68.1	74.1
152.5°	7.4	19.3	40.0	60.7	66.7
155°	7.4	16.3	35.5	53.3	60.7
157.5°	7.4	14.8	31.1	44.4	53.3
160°	7.4	13.3	26.7	38.5	45.9
162.5°	7.4	11.8	23.7	32.6	40.0
165°	7.4	10.4	19.3	26.7	32.6
167.5°	8.9	10.4	16.3	20.7	26.7
170°	8.9	10.4	13.3	16.3	20.7
172.5°	8.9	8.9	10.4	11.8	13.3
175°	8.9	8.9	8.9	8.9	7.4
177.5°	8.9	8.9	8.9	7.4	7.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.4	7.4	7.4	7.4	7.4

(END OF REPORT)