

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: P565998

Luminaire Tested: **4SNX-104HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565998
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-104HL-LC-UNV-L830-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

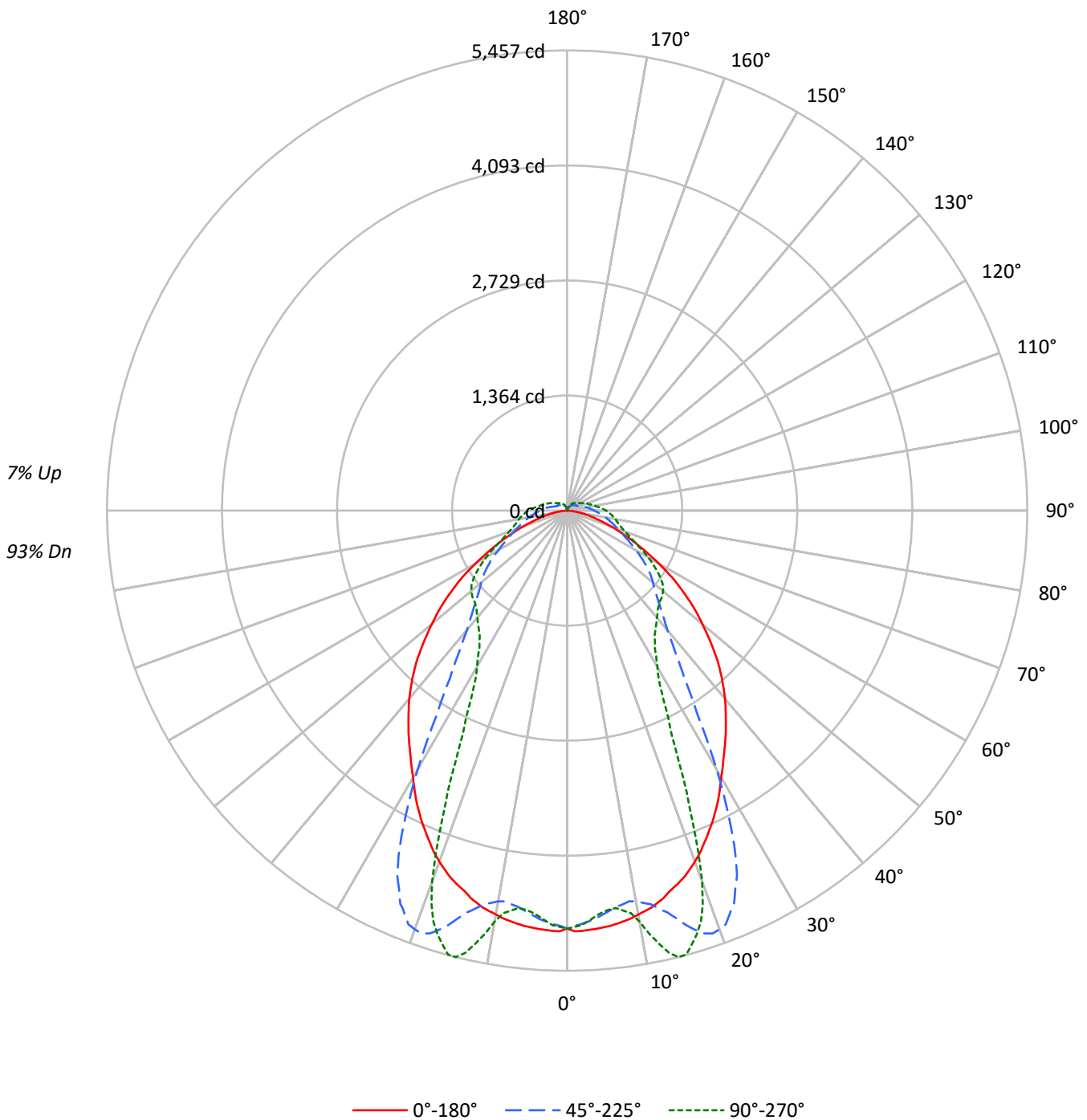
Lumens per Lamp: N/A
Luminaire Lumens: 11015.0 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 75.5
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°	53348	53348	53348
5°	53412	49789	48832
10°	52772	47275	48424
15°	51543	49174	51550
20°	49984	51211	43144
25°	47475	45904	26528
30°	44355	34163	19199
35°	41807	23560	16196
40°	39524	18269	14927
45°	36866	15539	14117
50°	33403	13932	13857
55°	29758	12585	12821
60°	25090	10876	11090
65°	20250	9459	9255
70°	15721	8487	8150
75°	11985	7873	7600
80°	8178	7437	7523
85°	4225	7072	7470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.2	4.2
10°-20°	1409.2	12.8
20°-30°	1897.5	17.2
30°-40°	1795.8	16.3
40°-50°	1585.1	14.4
50°-60°	1287.4	11.7
60°-70°	875.6	7.9
70°-80°	563.4	5.1
80°-90°	374.6	3.4
90°-100°	257.5	2.3
100°-110°	172.8	1.6
110°-120°	121.9	1.1
120°-130°	87.1	0.8
130°-140°	61.4	0.6
140°-150°	38.2	0.3
150°-160°	18.6	0.2
160°-170°	6.5	0.1
170°-180°	1.1	0.0
0°-30°	3767.9	34.2
0°-40°	5563.8	50.5
0°-60°	8436.3	76.6
0°-90°	10249.9	93.1
90°-120°	552.2	5.0
90°-150°	738.9	6.7
90°-180°	765.0	6.9
0°-180°	11015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4956	4956	4956	4956	4956	
5°	4961	4916	4810	4806	4783	471
15°	4677	4647	5005	5447	5452	1319
25°	4075	4832	4768	3463	2928	1870
35°	3274	4595	2422	1865	1808	2049
45°	2523	3091	1532	1514	1546	1937
55°	1680	1828	1150	1285	1334	1500
65°	866	986	770	856	883	870
75°	333	466	543	609	637	362
85°	50	198	385	488	521	66
90°	2	138	321	432	461	3
95°	2	106	271	367	392	1
105°	3	74	178	251	281	3
115°	3	64	131	187	210	4
125°	5	54	113	141	151	5
135°	7	42	92	118	124	5
145°	7	30	66	91	99	5
155°	8	18	40	60	69	4
165°	8	12	22	30	37	3
175°	10	10	10	10	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4956.2	4956.2	4956.2	4956.2	4956.2
1°	4989.8	4974.7	4924.3	4951.2	4937.7
2°	4988.2	4962.9	4905.8	4936.0	4919.2
3°	4979.8	4952.8	4878.8	4897.3	4872.1
4°	4971.3	4939.4	4850.3	4850.3	4821.7
5°	4961.3	4915.8	4809.9	4806.5	4783.0
6°	4949.5	4897.3	4774.6	4771.2	4757.8
7°	4932.7	4865.4	4735.9	4759.4	4749.3
8°	4912.5	4835.1	4715.7	4774.6	4789.7
9°	4894.0	4798.1	4692.2	4821.7	4833.4
10°	4863.7	4764.5	4707.3	4915.8	4951.2
11°	4838.5	4735.9	4740.9	5008.3	5114.3
12°	4813.3	4705.6	4772.9	5124.4	5253.9
13°	4771.2	4682.1	4843.5	5250.5	5383.4
14°	4734.2	4663.6	4912.5	5378.3	5457.4
15°	4677.0	4646.8	5005.0	5447.3	5452.3
16°	4638.4	4635.0	5112.6	5452.3	5358.2
17°	4594.6	4629.9	5200.1	5364.9	5253.9
18°	4545.9	4640.0	5272.4	5255.6	5127.7
19°	4490.4	4650.1	5302.7	5104.2	4939.4
20°	4429.8	4665.3	5285.8	4946.1	4680.4
21°	4369.3	4685.4	5253.9	4779.6	4340.7
22.5°	4256.6	4734.2	5102.5	4312.1	3779.0
23°	4224.6	4744.3	5067.2	4165.8	3632.6
24°	4145.6	4786.3	4905.8	3824.4	3245.8
25°	4075.0	4831.8	4767.8	3462.8	2928.0
26°	3995.9	4865.4	4559.3	3129.8	2732.9
27°	3918.5	4885.6	4322.2	2870.8	2514.3
28°	3829.4	4907.4	4064.9	2647.1	2349.4
29°	3745.3	4910.8	3810.9	2468.9	2220.0
30°	3654.5	4894.0	3543.5	2325.9	2139.2
32.5°	3456.1	4801.5	2889.3	2053.5	1937.4
35°	3274.4	4594.6	2421.8	1865.1	1807.9
37.5°	3091.1	4268.4	2093.8	1747.4	1728.9
40°	2911.2	3881.5	1846.6	1653.2	1656.6
42.5°	2721.1	3483.0	1676.7	1575.8	1591.0
45°	2522.7	3091.1	1532.1	1513.6	1545.6
47.5°	2302.4	2732.9	1417.7	1473.2	1522.0
50°	2093.8	2378.0	1328.6	1434.6	1485.0
52.5°	1895.4	2087.1	1247.9	1369.0	1427.8
55°	1680.1	1828.1	1150.3	1284.9	1333.7
57.5°	1474.9	1594.3	1047.7	1180.6	1224.3
60°	1249.6	1363.9	943.5	1067.9	1110.0
62.5°	1046.1	1167.2	854.3	955.3	988.9
65°	866.1	985.5	770.3	856.0	882.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	706.3	834.2	701.3	773.6	798.8
70°	556.7	691.2	640.8	706.3	733.3
72.5°	435.6	571.8	590.3	650.8	677.8
75°	333.0	465.9	543.2	608.8	637.4
77.5°	247.2	380.1	499.5	575.2	605.4
80°	163.1	302.7	460.8	544.9	580.2
82.5°	102.6	243.9	422.1	514.6	551.6
85°	50.5	198.5	385.1	487.7	521.4
87.5°	16.8	164.8	351.5	460.8	489.4
90°	1.7	137.9	321.2	432.2	460.8
92.5°	1.7	119.4	296.0	398.6	427.2
95°	1.7	106.0	270.8	366.6	391.9
97.5°	1.7	95.9	247.2	333.0	359.9
100°	1.7	85.8	222.0	301.0	329.6
102.5°	3.4	79.0	200.1	274.1	304.4
105°	3.4	74.0	178.3	250.6	280.9
107.5°	3.4	70.6	159.8	232.1	260.7
110°	3.4	67.3	146.3	215.3	245.5
112.5°	3.4	65.6	137.9	200.1	228.7
115°	3.4	63.9	131.2	186.7	210.2
117.5°	5.0	62.2	126.1	173.2	191.7
120°	5.0	58.9	122.8	161.5	176.6
122.5°	5.0	55.5	117.7	151.4	163.1
125°	5.0	53.8	112.7	141.3	151.4
127.5°	5.0	50.5	107.6	132.9	143.0
130°	6.7	47.1	102.6	126.1	134.5
132.5°	6.7	43.7	97.5	122.8	129.5
135°	6.7	42.0	92.5	117.7	124.5
137.5°	6.7	38.7	87.5	112.7	119.4
140°	6.7	35.3	80.7	106.0	112.7
142.5°	6.7	33.6	74.0	99.2	106.0
145°	6.7	30.3	65.6	90.8	99.2
147.5°	8.4	28.6	58.9	84.1	90.8
150°	8.4	25.2	52.1	77.4	84.1
152.5°	8.4	21.9	45.4	69.0	75.7
155°	8.4	18.5	40.4	60.5	69.0
157.5°	8.4	16.8	35.3	50.5	60.5
160°	8.4	15.1	30.3	43.7	52.1
162.5°	8.4	13.5	26.9	37.0	45.4
165°	8.4	11.8	21.9	30.3	37.0
167.5°	10.1	11.8	18.5	23.5	30.3
170°	10.1	11.8	15.1	18.5	23.5
172.5°	10.1	10.1	11.8	13.5	15.1
175°	10.1	10.1	10.1	10.1	8.4
177.5°	10.1	10.1	10.1	8.4	8.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	8.4	8.4	8.4	8.4	8.4

(END OF REPORT)