

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: P567013

Luminaire Tested: **4SNX-93HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567013
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-93HL-LC-UNV-L950-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

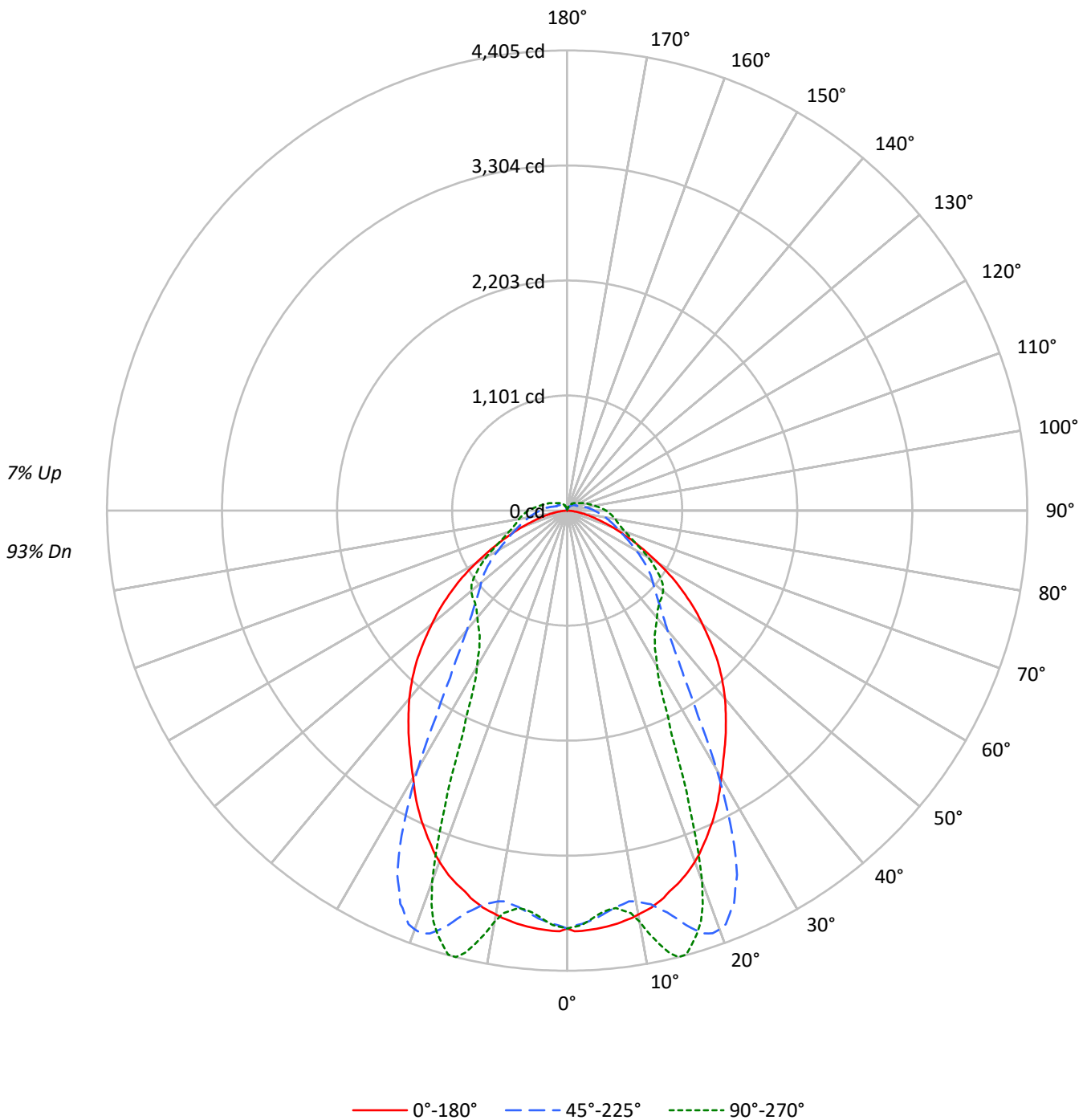
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8891.0 lumens
Efficiency: N/A
Efficacy: 131.9 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): 67.4
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	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°	43061	43061	43061
5°	43113	40188	39416
10°	42597	38159	39086
15°	41605	39692	41610
20°	40346	41337	34825
25°	38320	37053	21413
30°	35802	27575	15497
35°	33745	19017	13073
40°	31902	14746	12048
45°	29756	12543	11394
50°	26963	11245	11186
55°	24020	10158	10349
60°	20251	8778	8951
65°	16345	7634	7471
70°	12688	6850	6578
75°	9675	6356	6134
80°	6603	6004	6072
85°	3405	5710	6029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	4.2
10°-20°	1137.5	12.8
20°-30°	1531.6	17.2
30°-40°	1449.5	16.3
40°-50°	1279.4	14.4
50°-60°	1039.2	11.7
60°-70°	706.8	7.9
70°-80°	454.8	5.1
80°-90°	302.4	3.4
90°-100°	207.8	2.3
100°-110°	139.5	1.6
110°-120°	98.4	1.1
120°-130°	70.3	0.8
130°-140°	49.6	0.6
140°-150°	30.8	0.3
150°-160°	15.0	0.2
160°-170°	5.3	0.1
170°-180°	0.9	0.0
0°-30°	3041.4	34.2
0°-40°	4490.9	50.5
0°-60°	6809.5	76.6
0°-90°	8273.4	93.1
90°-120°	445.7	5.0
90°-150°	596.4	6.7
90°-180°	618.0	7.0
0°-180°	8891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4000	4000	4000	4000	4000	
5°	4005	3968	3882	3880	3861	380
15°	3775	3751	4040	4397	4401	1064
25°	3289	3900	3848	2795	2363	1509
35°	2643	3709	1955	1506	1459	1654
45°	2036	2495	1237	1222	1248	1563
55°	1356	1476	928	1037	1076	1211
65°	699	796	622	691	713	702
75°	269	376	438	491	514	292
85°	41	160	311	394	421	53
90°	1	111	259	349	372	2
95°	1	86	219	296	316	1
105°	3	60	144	202	227	3
115°	3	52	106	151	170	3
125°	4	43	91	114	122	4
135°	5	34	75	95	100	4
145°	5	24	53	73	80	4
155°	7	15	33	49	56	3
165°	7	10	18	24	30	2
175°	8	8	8	8	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4000.5	4000.5	4000.5	4000.5	4000.5
1°	4027.7	4015.4	3974.7	3996.4	3985.6
2°	4026.3	4005.9	3959.8	3984.2	3970.6
3°	4019.5	3997.8	3938.1	3953.0	3932.6
4°	4012.7	3986.9	3915.0	3915.0	3891.9
5°	4004.6	3967.9	3882.4	3879.7	3860.7
6°	3995.1	3953.0	3853.9	3851.2	3840.3
7°	3981.5	3927.2	3822.7	3841.7	3833.5
8°	3965.2	3902.8	3806.4	3853.9	3866.1
9°	3950.3	3872.9	3787.4	3891.9	3901.4
10°	3925.9	3845.8	3799.6	3967.9	3996.4
11°	3905.5	3822.7	3826.8	4042.6	4128.1
12°	3885.1	3798.2	3852.5	4136.3	4240.8
13°	3851.2	3779.2	3909.6	4238.1	4345.3
14°	3821.3	3764.3	3965.2	4341.2	4405.0
15°	3775.2	3750.7	4039.9	4396.9	4401.0
16°	3743.9	3741.2	4126.8	4401.0	4325.0
17°	3708.7	3737.2	4197.3	4330.4	4240.8
18°	3669.3	3745.3	4255.7	4242.1	4139.0
19°	3624.5	3753.4	4280.2	4120.0	3986.9
20°	3575.6	3765.7	4266.6	3992.4	3777.9
21°	3526.7	3782.0	4240.8	3858.0	3503.7
22.5°	3435.8	3821.3	4118.6	3480.6	3050.3
23°	3410.0	3829.5	4090.1	3362.5	2932.2
24°	3346.2	3863.4	3959.8	3086.9	2619.9
25°	3289.2	3900.1	3848.5	2795.1	2363.4
26°	3225.4	3927.2	3680.1	2526.3	2205.9
27°	3162.9	3943.5	3488.7	2317.2	2029.4
28°	3091.0	3961.1	3281.0	2136.7	1896.4
29°	3023.1	3963.9	3076.1	1992.8	1791.9
30°	2949.8	3950.3	2860.2	1877.4	1726.7
32.5°	2789.6	3875.6	2332.2	1657.5	1563.8
35°	2643.0	3708.7	1954.8	1505.5	1459.3
37.5°	2495.1	3445.3	1690.1	1410.4	1395.5
40°	2349.8	3133.1	1490.5	1334.4	1337.1
42.5°	2196.4	2811.4	1353.4	1272.0	1284.2
45°	2036.2	2495.1	1236.7	1221.7	1247.5
47.5°	1858.4	2205.9	1144.4	1189.2	1228.5
50°	1690.1	1919.5	1072.4	1157.9	1198.7
52.5°	1529.9	1684.6	1007.3	1105.0	1152.5
55°	1356.1	1475.6	928.5	1037.1	1076.5
57.5°	1190.5	1286.9	845.7	953.0	988.2
60°	1008.6	1100.9	761.5	862.0	895.9
62.5°	844.4	942.1	689.6	771.1	798.2
65°	699.1	795.5	621.7	691.0	712.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	570.1	673.3	566.1	624.4	644.8
70°	449.3	557.9	517.2	570.1	591.9
72.5°	351.6	461.5	476.5	525.3	547.1
75°	268.8	376.0	438.5	491.4	514.5
77.5°	199.6	306.8	403.2	464.3	488.7
80°	131.7	244.3	372.0	439.8	468.3
82.5°	82.8	196.8	340.7	415.4	445.3
85°	40.7	160.2	310.9	393.7	420.8
87.5°	13.6	133.0	283.7	372.0	395.0
90°	1.4	111.3	259.3	348.9	372.0
92.5°	1.4	96.4	238.9	321.7	344.8
95°	1.4	85.5	218.6	295.9	316.3
97.5°	1.4	77.4	199.6	268.8	290.5
100°	1.4	69.2	179.2	243.0	266.1
102.5°	2.7	63.8	161.5	221.3	245.7
105°	2.7	59.7	143.9	202.3	226.7
107.5°	2.7	57.0	129.0	187.3	210.4
110°	2.7	54.3	118.1	173.8	198.2
112.5°	2.7	52.9	111.3	161.5	184.6
115°	2.7	51.6	105.9	150.7	169.7
117.5°	4.1	50.2	101.8	139.8	154.8
120°	4.1	47.5	99.1	130.3	142.5
122.5°	4.1	44.8	95.0	122.2	131.7
125°	4.1	43.4	91.0	114.0	122.2
127.5°	4.1	40.7	86.9	107.2	115.4
130°	5.4	38.0	82.8	101.8	108.6
132.5°	5.4	35.3	78.7	99.1	104.5
135°	5.4	33.9	74.7	95.0	100.5
137.5°	5.4	31.2	70.6	91.0	96.4
140°	5.4	28.5	65.2	85.5	91.0
142.5°	5.4	27.1	59.7	80.1	85.5
145°	5.4	24.4	52.9	73.3	80.1
147.5°	6.8	23.1	47.5	67.9	73.3
150°	6.8	20.4	42.1	62.4	67.9
152.5°	6.8	17.6	36.7	55.7	61.1
155°	6.8	14.9	32.6	48.9	55.7
157.5°	6.8	13.6	28.5	40.7	48.9
160°	6.8	12.2	24.4	35.3	42.1
162.5°	6.8	10.9	21.7	29.9	36.7
165°	6.8	9.5	17.6	24.4	29.9
167.5°	8.1	9.5	14.9	19.0	24.4
170°	8.1	9.5	12.2	14.9	19.0
172.5°	8.1	8.1	9.5	10.9	12.2
175°	8.1	8.1	8.1	8.1	6.8
177.5°	8.1	8.1	8.1	6.8	6.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.8	6.8	6.8	6.8	6.8

(END OF REPORT)