

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: P567450

Luminaire Tested: **8SNX-162HL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567450
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: 8SNX-162HL-LC-UNV-L830-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

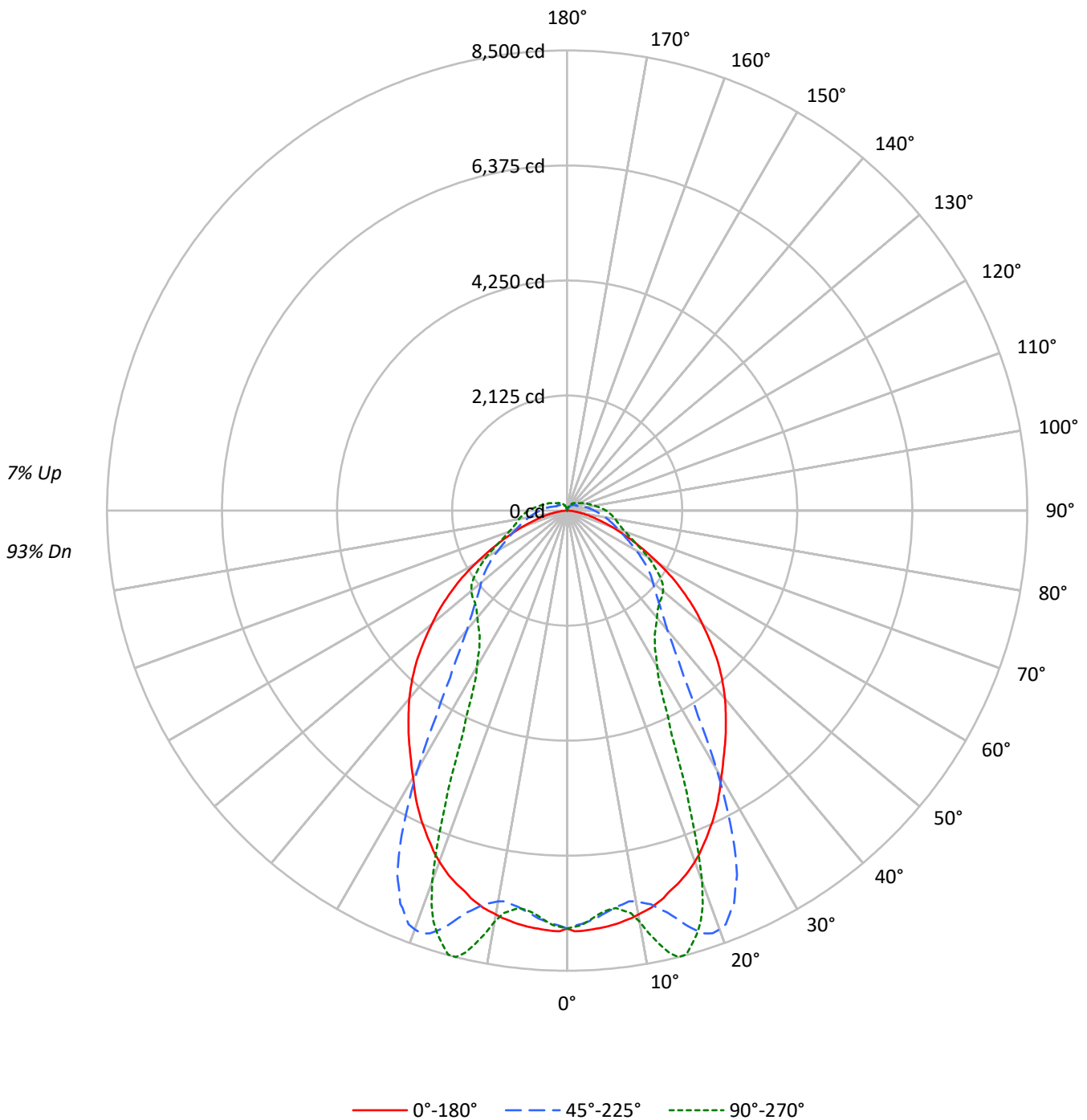
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17156.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 110.2
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°	41545	41545	41545
5°	41670	38822	38028
10°	41247	36904	37710
15°	40363	38428	40145
20°	39219	40063	33599
25°	37327	35949	20659
30°	34952	26782	14951
35°	33026	18488	12613
40°	31308	14352	11624
45°	29295	12221	10993
50°	26643	10970	10791
55°	23844	9923	9984
60°	20219	8587	8636
65°	16445	7480	7208
70°	12904	6724	6347
75°	10006	6252	5919
80°	7043	5921	5858
85°	3920	5649	5817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.3	4.2
10°-20°	2194.9	12.8
20°-30°	2955.4	17.2
30°-40°	2797.0	16.3
40°-50°	2468.8	14.4
50°-60°	2005.2	11.7
60°-70°	1363.8	7.9
70°-80°	877.5	5.1
80°-90°	583.5	3.4
90°-100°	401.0	2.3
100°-110°	269.2	1.6
110°-120°	189.9	1.1
120°-130°	135.6	0.8
130°-140°	95.7	0.6
140°-150°	59.4	0.3
150°-160°	29.0	0.2
160°-170°	10.1	0.1
170°-180°	1.8	0.0
0°-30°	5868.6	34.2
0°-40°	8665.6	50.5
0°-60°	13139.6	76.6
0°-90°	15964.4	93.1
90°-120°	860.0	5.0
90°-150°	1150.8	6.7
90°-180°	1192.0	6.9
0°-180°	17156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7719	7719	7719	7719	7719	
5°	7727	7656	7492	7486	7450	733
15°	7284	7237	7795	8484	8492	2054
25°	6347	7526	7426	5393	4560	2912
35°	5100	7156	3772	2905	2816	3191
45°	3929	4814	2386	2358	2407	3017
55°	2617	2847	1792	2001	2077	2337
65°	1349	1535	1200	1333	1375	1354
75°	519	726	846	948	993	564
85°	79	309	600	760	812	103
90°	3	215	500	673	718	5
95°	3	165	422	571	610	2
105°	5	115	278	390	437	5
115°	5	100	204	291	327	6
125°	8	84	176	220	236	7
135°	10	66	144	183	194	8
145°	10	47	102	141	154	7
155°	13	29	63	94	107	6
165°	13	18	34	47	58	4
175°	16	16	16	16	13	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7719.4	7719.4	7719.4	7719.4	7719.4
1°	7771.7	7748.2	7669.6	7711.5	7690.5
2°	7769.1	7729.8	7640.8	7687.9	7661.7
3°	7756.0	7714.1	7598.9	7627.7	7588.4
4°	7742.9	7693.2	7554.3	7554.3	7509.8
5°	7727.2	7656.5	7491.5	7486.2	7449.6
6°	7708.9	7627.7	7436.5	7431.2	7410.3
7°	7682.7	7577.9	7376.2	7412.9	7397.2
8°	7651.3	7530.8	7344.8	7436.5	7460.0
9°	7622.4	7473.1	7308.1	7509.8	7528.1
10°	7575.3	7420.7	7331.7	7656.5	7711.5
11°	7536.0	7376.2	7384.1	7800.6	7965.6
12°	7496.7	7329.1	7433.8	7981.3	8183.0
13°	7431.2	7292.4	7543.9	8177.7	8384.7
14°	7373.6	7263.6	7651.3	8376.8	8499.9
15°	7284.5	7237.4	7795.3	8484.2	8492.1
16°	7224.3	7219.1	7963.0	8492.1	8345.4
17°	7156.2	7211.2	8099.2	8355.9	8183.0
18°	7080.2	7226.9	8211.8	8185.6	7986.5
19°	6993.8	7242.6	8259.0	7949.9	7693.2
20°	6899.5	7266.2	8232.8	7703.6	7289.8
21°	6805.2	7297.6	8183.0	7444.3	6760.7
22.5°	6629.7	7373.6	7947.2	6716.1	5885.8
23°	6579.9	7389.3	7892.2	6488.2	5657.9
24°	6456.8	7454.8	7640.8	5956.5	5055.4
25°	6346.8	7525.5	7426.0	5393.3	4560.4
26°	6223.7	7577.9	7101.2	4874.7	4256.5
27°	6103.2	7609.3	6731.8	4471.3	3916.0
28°	5964.4	7643.4	6331.1	4122.9	3659.3
29°	5833.4	7648.6	5935.5	3845.3	3457.6
30°	5691.9	7622.4	5519.1	3622.6	3331.9
32.5°	5382.9	7478.4	4500.1	3198.3	3017.5
35°	5100.0	7156.2	3771.9	2904.9	2815.8
37.5°	4814.4	6648.0	3261.1	2721.6	2692.7
40°	4534.2	6045.6	2876.1	2574.9	2580.1
42.5°	4238.2	5424.8	2611.5	2454.4	2477.9
45°	3929.1	4814.4	2386.3	2357.5	2407.2
47.5°	3586.0	4256.5	2208.1	2294.6	2370.6
50°	3261.1	3703.8	2069.3	2234.3	2312.9
52.5°	2952.1	3250.7	1943.6	2132.2	2223.9
55°	2616.8	2847.3	1791.7	2001.2	2077.2
57.5°	2297.2	2483.2	1631.9	1838.8	1906.9
60°	1946.2	2124.3	1469.5	1663.3	1728.8
62.5°	1629.3	1817.9	1330.7	1487.8	1540.2
65°	1349.0	1535.0	1199.7	1333.3	1375.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1100.1	1299.2	1092.3	1204.9	1244.2
70°	867.0	1076.6	998.0	1100.1	1142.1
72.5°	678.4	890.6	919.4	1013.7	1055.6
75°	518.6	725.6	846.1	948.2	992.8
77.5°	385.1	592.0	778.0	895.8	943.0
80°	254.1	471.5	717.7	848.7	903.7
82.5°	159.8	379.8	657.5	801.5	859.2
85°	78.6	309.1	599.8	759.6	812.0
87.5°	26.2	256.7	547.5	717.7	762.2
90°	2.6	214.8	500.3	673.2	717.7
92.5°	2.6	186.0	461.0	620.8	665.3
95°	2.6	165.0	421.7	571.0	610.3
97.5°	2.6	149.3	385.1	518.6	560.6
100°	2.6	133.6	345.8	468.9	513.4
102.5°	5.2	123.1	311.7	427.0	474.1
105°	5.2	115.3	277.7	390.3	437.4
107.5°	5.2	110.0	248.8	361.5	406.0
110°	5.2	104.8	227.9	335.3	382.4
112.5°	5.2	102.2	214.8	311.7	356.2
115°	5.2	99.5	204.3	290.8	327.4
117.5°	7.9	96.9	196.5	269.8	298.6
120°	7.9	91.7	191.2	251.5	275.0
122.5°	7.9	86.4	183.4	235.7	254.1
125°	7.9	83.8	175.5	220.0	235.7
127.5°	7.9	78.6	167.6	206.9	222.6
130°	10.5	73.3	159.8	196.5	209.6
132.5°	10.5	68.1	151.9	191.2	201.7
135°	10.5	65.5	144.1	183.4	193.8
137.5°	10.5	60.2	136.2	175.5	186.0
140°	10.5	55.0	125.7	165.0	175.5
142.5°	10.5	52.4	115.3	154.5	165.0
145°	10.5	47.1	102.2	141.4	154.5
147.5°	13.1	44.5	91.7	131.0	141.4
150°	13.1	39.3	81.2	120.5	131.0
152.5°	13.1	34.1	70.7	107.4	117.9
155°	13.1	28.8	62.9	94.3	107.4
157.5°	13.1	26.2	55.0	78.6	94.3
160°	13.1	23.6	47.1	68.1	81.2
162.5°	13.1	21.0	41.9	57.6	70.7
165°	13.1	18.3	34.1	47.1	57.6
167.5°	15.7	18.3	28.8	36.7	47.1
170°	15.7	18.3	23.6	28.8	36.7
172.5°	15.7	15.7	18.3	21.0	23.6
175°	15.7	15.7	15.7	15.7	13.1
177.5°	15.7	15.7	15.7	13.1	13.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	13.1	13.1	13.1	13.1	13.1

(END OF REPORT)