

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: P567600

Luminaire Tested: **8SNX-180HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567600
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-180HL-LC-UNV-L940-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

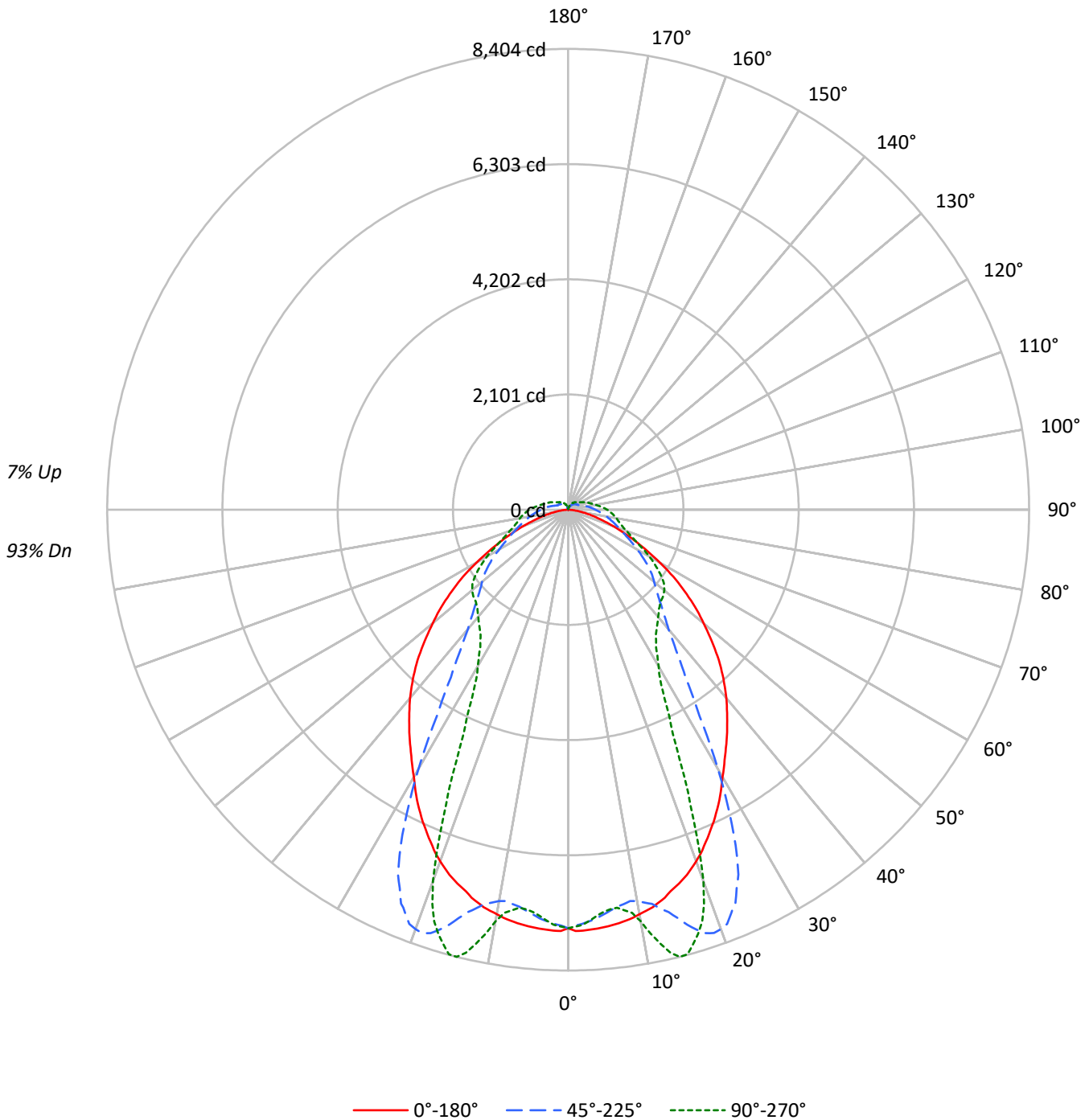
Lumens per Lamp: N/A
Luminaire Lumens: 16963.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 128.8
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	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°	41078	41078	41078
5°	41202	38385	37601
10°	40783	36489	37286
15°	39909	37996	39693
20°	38777	39612	33221
25°	36907	35544	20426
30°	34559	26480	14783
35°	32654	18281	12471
40°	30956	14190	11494
45°	28965	12084	10869
50°	26344	10847	10670
55°	23576	9811	9872
60°	19992	8490	8539
65°	16259	7396	7127
70°	12760	6648	6275
75°	9894	6181	5852
80°	6963	5854	5792
85°	3875	5586	5752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.2	4.2
10°-20°	2170.2	12.8
20°-30°	2922.2	17.2
30°-40°	2765.6	16.3
40°-50°	2441.0	14.4
50°-60°	1982.6	11.7
60°-70°	1348.4	7.9
70°-80°	867.6	5.1
80°-90°	576.9	3.4
90°-100°	396.5	2.3
100°-110°	266.1	1.6
110°-120°	187.7	1.1
120°-130°	134.1	0.8
130°-140°	94.6	0.6
140°-150°	58.8	0.3
150°-160°	28.7	0.2
160°-170°	10.0	0.1
170°-180°	1.7	0.0
0°-30°	5802.6	34.2
0°-40°	8568.2	50.5
0°-60°	12991.8	76.6
0°-90°	15784.7	93.1
90°-120°	850.3	5.0
90°-150°	1137.8	6.7
90°-180°	1178.0	6.9
0°-180°	16963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7632	7632	7632	7632	7632	
5°	7640	7570	7407	7402	7366	725
15°	7203	7156	7708	8389	8396	2031
25°	6275	7441	7342	5333	4509	2880
35°	5043	7076	3730	2872	2784	3155
45°	3885	4760	2359	2331	2380	2983
55°	2587	2815	1772	1979	2054	2311
65°	1334	1518	1186	1318	1360	1339
75°	513	717	836	938	982	558
85°	78	306	593	751	803	102
90°	3	212	495	666	710	5
95°	3	163	417	565	604	2
105°	5	114	274	386	432	5
115°	5	98	202	288	324	6
125°	8	83	174	218	233	7
135°	10	65	142	181	192	8
145°	10	47	101	140	153	7
155°	13	28	62	93	106	6
165°	13	18	34	47	57	4
175°	16	16	16	16	13	1
180°	13	13	13	13	13	



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CATALOG NUMBER: 8SNX-180HL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7632.5	7632.5	7632.5	7632.5	7632.5
1°	7684.3	7661.0	7583.3	7624.7	7604.0
2°	7681.7	7642.9	7554.8	7601.4	7575.5
3°	7668.8	7627.3	7513.4	7541.9	7503.0
4°	7655.8	7606.6	7469.3	7469.3	7425.3
5°	7640.3	7570.4	7407.2	7402.0	7365.8
6°	7622.2	7541.9	7352.8	7347.6	7326.9
7°	7596.3	7492.7	7293.2	7329.5	7314.0
8°	7565.2	7446.0	7262.2	7352.8	7376.1
9°	7536.7	7389.1	7225.9	7425.3	7443.4
10°	7490.1	7337.3	7249.2	7570.4	7624.7
11°	7451.2	7293.2	7301.0	7712.8	7876.0
12°	7412.4	7246.6	7350.2	7891.5	8090.9
13°	7347.6	7210.4	7459.0	8085.8	8290.4
14°	7290.6	7181.9	7565.2	8282.6	8404.3
15°	7202.6	7156.0	7707.6	8388.8	8396.5
16°	7143.0	7137.8	7873.4	8396.5	8251.5
17°	7075.7	7130.1	8008.1	8261.9	8090.9
18°	7000.6	7145.6	8119.4	8093.5	7896.7
19°	6915.1	7161.1	8166.0	7860.4	7606.6
20°	6821.9	7184.5	8140.1	7617.0	7207.8
21°	6728.6	7215.5	8090.9	7360.6	6684.6
22.5°	6555.1	7290.6	7857.8	6640.6	5819.6
23°	6505.9	7306.2	7803.4	6415.2	5594.2
24°	6384.2	7370.9	7554.8	5889.5	4998.6
25°	6275.4	7440.9	7342.4	5332.7	4509.1
26°	6153.7	7492.7	7021.3	4819.9	4208.6
27°	6034.5	7523.7	6656.1	4421.0	3871.9
28°	5897.3	7557.4	6259.9	4076.5	3618.1
29°	5767.8	7562.6	5868.8	3802.0	3418.7
30°	5627.9	7536.7	5457.0	3581.9	3294.4
32.5°	5322.3	7394.2	4449.5	3162.3	2983.6
35°	5042.6	7075.7	3729.5	2872.2	2784.2
37.5°	4760.3	6573.2	3224.5	2690.9	2662.4
40°	4483.2	5977.6	2843.7	2545.9	2551.1
42.5°	4190.5	5363.7	2582.2	2426.8	2450.1
45°	3884.9	4760.3	2359.4	2330.9	2380.1
47.5°	3545.6	4208.6	2183.3	2268.8	2343.9
50°	3224.5	3662.2	2046.0	2209.2	2286.9
52.5°	2918.8	3214.1	1921.7	2108.2	2198.8
55°	2587.3	2815.3	1771.5	1978.7	2053.8
57.5°	2271.4	2455.3	1613.5	1818.1	1885.5
60°	1924.3	2100.4	1452.9	1644.6	1709.4
62.5°	1610.9	1797.4	1315.7	1471.1	1522.9
65°	1333.8	1517.7	1186.2	1318.3	1359.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1087.8	1284.6	1080.0	1191.4	1230.2
70°	857.3	1064.5	986.8	1087.8	1129.2
72.5°	670.8	880.6	909.1	1002.3	1043.7
75°	512.8	717.4	836.5	937.6	981.6
77.5°	380.7	585.3	769.2	885.8	932.4
80°	251.2	466.2	709.6	839.1	893.5
82.5°	158.0	375.5	650.1	792.5	849.5
85°	77.7	305.6	593.1	751.1	802.9
87.5°	25.9	253.8	541.3	709.6	753.7
90°	2.6	212.4	494.7	665.6	709.6
92.5°	2.6	183.9	455.8	613.8	657.8
95°	2.6	163.2	417.0	564.6	603.5
97.5°	2.6	147.6	380.7	512.8	554.2
100°	2.6	132.1	341.9	463.6	507.6
102.5°	5.2	121.7	308.2	422.2	468.8
105°	5.2	114.0	274.5	385.9	432.5
107.5°	5.2	108.8	246.0	357.4	401.4
110°	5.2	103.6	225.3	331.5	378.1
112.5°	5.2	101.0	212.4	308.2	352.2
115°	5.2	98.4	202.0	287.5	323.7
117.5°	7.8	95.8	194.2	266.8	295.3
120°	7.8	90.6	189.1	248.6	271.9
122.5°	7.8	85.5	181.3	233.1	251.2
125°	7.8	82.9	173.5	217.6	233.1
127.5°	7.8	77.7	165.8	204.6	220.1
130°	10.4	72.5	158.0	194.2	207.2
132.5°	10.4	67.3	150.2	189.1	199.4
135°	10.4	64.7	142.4	181.3	191.7
137.5°	10.4	59.6	134.7	173.5	183.9
140°	10.4	54.4	124.3	163.2	173.5
142.5°	10.4	51.8	114.0	152.8	163.2
145°	10.4	46.6	101.0	139.9	152.8
147.5°	12.9	44.0	90.6	129.5	139.9
150°	12.9	38.8	80.3	119.1	129.5
152.5°	12.9	33.7	69.9	106.2	116.5
155°	12.9	28.5	62.2	93.2	106.2
157.5°	12.9	25.9	54.4	77.7	93.2
160°	12.9	23.3	46.6	67.3	80.3
162.5°	12.9	20.7	41.4	57.0	69.9
165°	12.9	18.1	33.7	46.6	57.0
167.5°	15.5	18.1	28.5	36.3	46.6
170°	15.5	18.1	23.3	28.5	36.3
172.5°	15.5	15.5	18.1	20.7	23.3
175°	15.5	15.5	15.5	15.5	12.9
177.5°	15.5	15.5	15.5	12.9	12.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.9	12.9	12.9	12.9	12.9

(END OF REPORT)