

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: P567610

Luminaire Tested: **8SNX-180HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-LW-UNV-L830-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

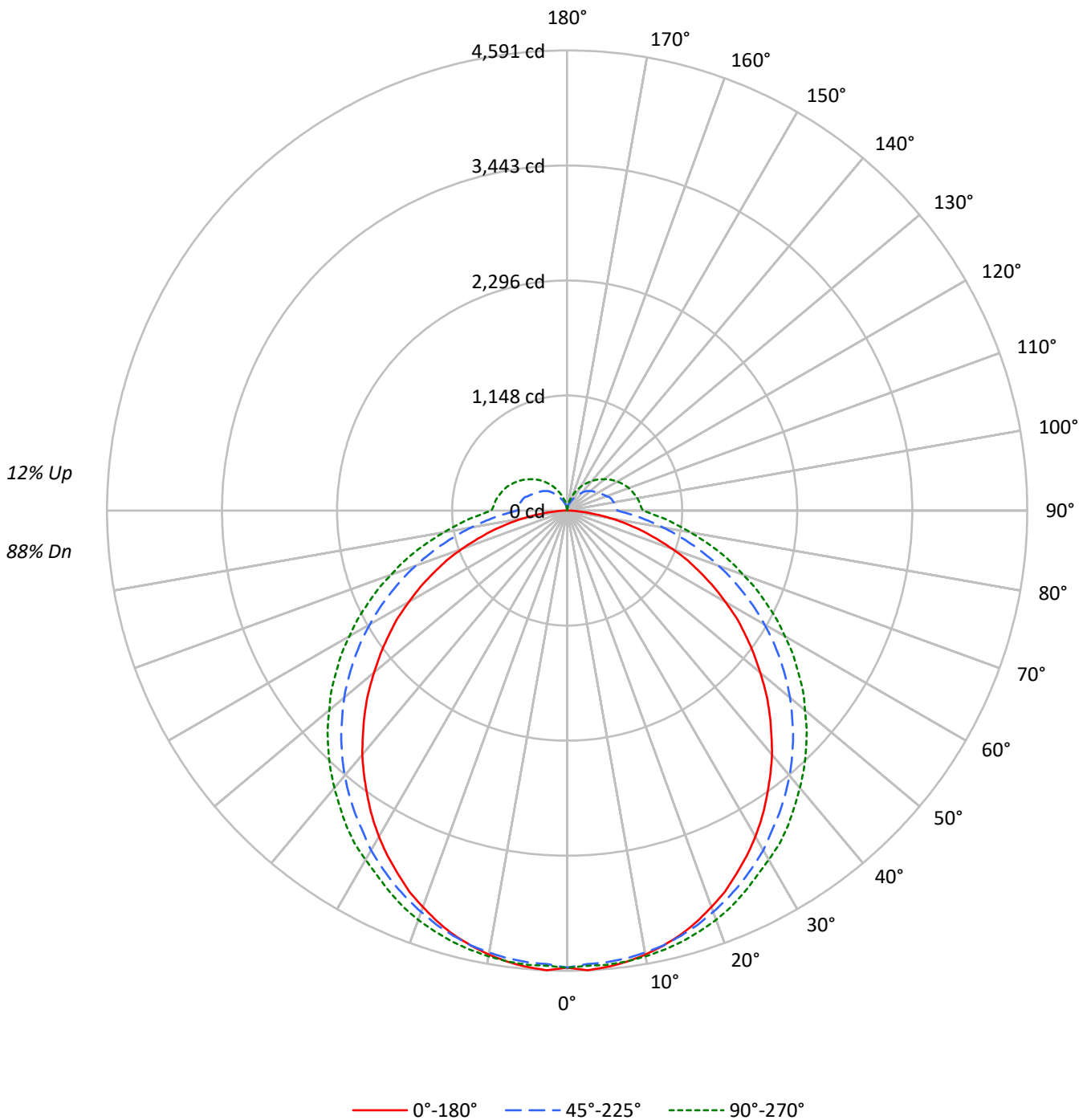
Lumens per Lamp: N/A
Luminaire Lumens: 16416.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24540	24540	24540
5°	24650	23440	23219
10°	24491	22541	22078
15°	24268	21647	21037
20°	23921	20739	20031
25°	23510	19855	19000
30°	23063	18989	18052
35°	22500	18079	17201
40°	21954	17226	16275
45°	21296	16327	15393
50°	20533	15395	14454
55°	19800	14370	13526
60°	18955	13289	12527
65°	17922	12111	11493
70°	16610	10833	10373
75°	14752	9430	9301
80°	12155	8024	8074
85°	8414	6672	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	2.6
10°-20°	1245.2	7.6
20°-30°	1894.3	11.5
30°-40°	2303.3	14.0
40°-50°	2436.8	14.8
50°-60°	2284.2	13.9
60°-70°	1879.1	11.4
70°-80°	1300.2	7.9
80°-90°	723.0	4.4
90°-100°	476.3	2.9
100°-110°	427.1	2.6
110°-120°	353.5	2.2
120°-130°	273.3	1.7
130°-140°	193.5	1.2
140°-150°	116.7	0.7
150°-160°	56.0	0.3
160°-170°	18.3	0.1
170°-180°	2.2	0.0
0°-30°	3572.4	21.8
0°-40°	5875.6	35.8
0°-60°	10596.6	64.6
0°-90°	14498.9	88.3
90°-120°	1256.9	7.7
90°-150°	1840.4	11.2
90°-180°	1917.0	11.7
0°-180°	16416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4560	4560	4560	4560	4560	
5°	4571	4562	4523	4560	4548	434
15°	4380	4394	4391	4450	4450	1234
25°	3998	4054	4102	4192	4194	1843
35°	3475	3567	3688	3806	3840	2175
45°	2856	3005	3188	3331	3371	2201
55°	2173	2367	2595	2758	2814	1945
65°	1470	1681	1942	2134	2193	1458
75°	765	987	1276	1479	1560	811
85°	169	419	708	905	984	194
90°	3	236	500	689	756	11
95°	3	225	486	666	731	2
105°	3	194	455	627	683	3
115°	6	169	385	557	618	4
125°	6	143	329	475	534	5
135°	6	112	276	391	438	4
145°	6	82	191	295	332	4
155°	8	56	118	188	219	4
165°	8	36	65	87	112	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4559.7	4559.7	4559.7	4559.7	4559.7
2.5°	4590.7	4576.6	4528.8	4559.7	4545.7
5°	4571.0	4562.5	4523.2	4559.7	4548.5
7.5°	4540.1	4537.2	4506.3	4548.5	4537.2
10°	4497.9	4503.5	4478.2	4523.2	4514.8
12.5°	4444.5	4452.9	4441.7	4492.3	4486.6
15°	4379.8	4393.9	4391.1	4450.1	4450.1
17.5°	4301.1	4320.8	4332.0	4399.5	4399.5
20°	4208.3	4239.3	4261.7	4334.8	4346.1
22.5°	4115.6	4152.1	4185.8	4261.7	4278.6
25°	3997.5	4053.7	4101.5	4191.5	4194.3
27.5°	3882.2	3944.1	4008.7	4095.9	4104.3
30°	3755.7	3834.4	3913.2	3997.5	4022.8
32.5°	3620.8	3707.9	3795.1	3907.5	3941.3
35°	3474.6	3567.4	3688.3	3806.3	3840.1
37.5°	3328.4	3432.4	3573.0	3693.9	3724.8
40°	3179.4	3294.7	3452.1	3575.8	3612.4
42.5°	3013.6	3154.1	3322.8	3454.9	3497.1
45°	2856.2	3005.1	3187.9	3331.2	3370.6
47.5°	2690.3	2847.7	3044.5	3196.3	3241.3
50°	2513.2	2693.1	2903.9	3055.8	3097.9
52.5°	2347.3	2530.1	2752.1	2909.6	2968.6
55°	2173.0	2367.0	2594.7	2757.8	2814.0
57.5°	2010.0	2195.5	2440.1	2603.2	2673.4
60°	1824.5	2029.7	2274.2	2451.3	2507.6
62.5°	1650.2	1858.2	2111.2	2293.9	2358.6
65°	1470.2	1681.1	1942.5	2133.7	2192.7
67.5°	1301.6	1509.6	1776.7	1965.0	2040.9
70°	1116.0	1335.3	1608.0	1802.0	1866.6
72.5°	933.3	1161.0	1439.3	1647.4	1720.4
75°	764.6	986.7	1276.3	1478.7	1560.2
77.5°	601.6	826.5	1118.8	1326.9	1397.2
80°	438.5	674.7	972.7	1177.9	1245.4
82.5°	289.6	536.9	832.1	1037.3	1110.4
85°	168.7	418.9	708.4	905.2	983.9
87.5°	73.1	317.7	593.2	787.1	851.8
90°	2.8	236.1	500.4	688.7	756.2
92.5°	2.8	230.5	489.1	674.7	739.3
95°	2.8	224.9	486.3	666.2	730.9
97.5°	2.8	222.1	480.7	660.6	722.5
100°	2.8	213.6	472.3	649.4	711.2
102.5°	2.8	202.4	463.8	638.1	697.2
105°	2.8	194.0	455.4	626.9	683.1
107.5°	2.8	185.5	441.4	612.8	669.1
110°	2.8	177.1	418.9	598.8	655.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	174.3	402.0	579.1	638.1
115°	5.6	168.7	385.1	556.6	618.5
117.5°	5.6	165.9	371.1	534.1	598.8
120°	5.6	157.4	357.0	514.4	576.3
122.5°	5.6	149.0	343.0	494.8	556.6
125°	5.6	143.4	328.9	475.1	534.1
127.5°	5.6	134.9	317.7	455.4	508.8
130°	5.6	129.3	303.6	432.9	486.3
132.5°	5.6	120.9	289.6	410.4	461.0
135°	5.6	112.4	275.5	390.8	438.5
137.5°	5.6	101.2	258.6	368.3	413.2
140°	5.6	92.8	236.1	345.8	387.9
142.5°	5.6	87.1	213.6	320.5	359.8
145°	5.6	81.5	191.2	295.2	331.7
147.5°	5.6	75.9	171.5	269.9	303.6
150°	5.6	67.5	151.8	247.4	275.5
152.5°	8.4	61.8	134.9	219.3	247.4
155°	8.4	56.2	118.1	188.3	219.3
157.5°	8.4	50.6	101.2	157.4	191.2
160°	8.4	45.0	87.1	129.3	163.0
162.5°	8.4	42.2	75.9	106.8	137.7
165°	8.4	36.5	64.7	87.1	112.4
167.5°	8.4	28.1	53.4	67.5	92.8
170°	8.4	22.5	42.2	47.8	70.3
172.5°	8.4	16.9	30.9	33.7	36.5
175°	8.4	14.1	19.7	19.7	11.2
177.5°	8.4	11.2	11.2	11.2	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)