

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: P567586

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567586
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-FDL-UNV-L830-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

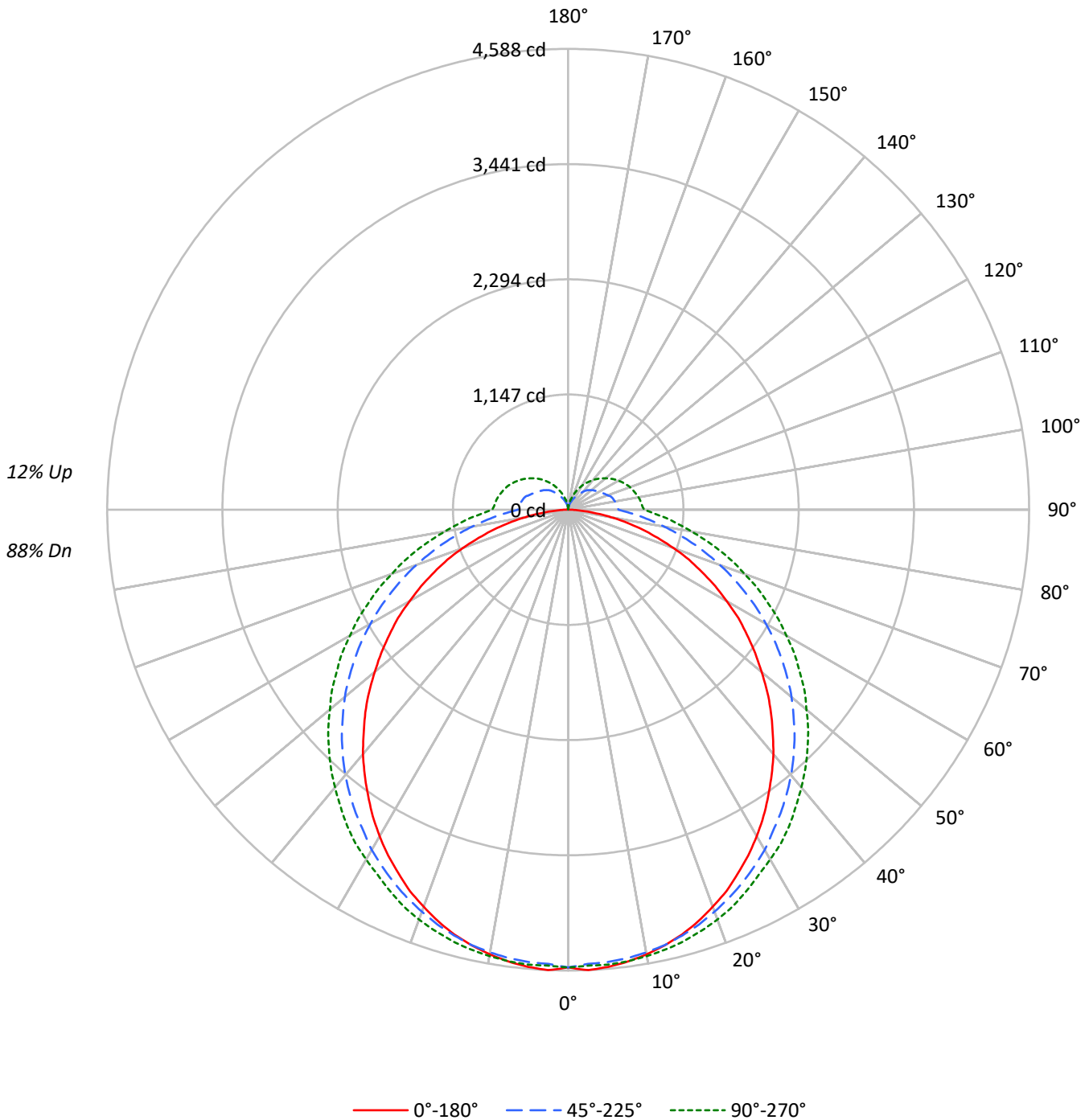
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16407.0 lumens
Efficiency: N/A
Efficacy: 127.4 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: 0.04')
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

TEST NUMBER: P567586
CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567586

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L830-CD

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°	24527	24527	24527
5°	24670	24166	24207
10°	24545	23947	23956
15°	24356	23682	23722
20°	24044	23362	23455
25°	23668	23037	23098
30°	23258	22711	22793
35°	22733	22320	22581
40°	22228	21997	22253
45°	21614	21622	21978
50°	20901	21227	21628
55°	20228	20734	21316
60°	19453	20212	20933
65°	18506	19613	20560
70°	17304	18958	20136
75°	15588	18248	19990
80°	13195	17835	19832
85°	9826	18299	20904



TEST NUMBER: P567586

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	2.6
10°-20°	1244.5	7.6
20°-30°	1893.3	11.5
30°-40°	2302.0	14.0
40°-50°	2435.5	14.8
50°-60°	2282.9	13.9
60°-70°	1878.1	11.4
70°-80°	1299.5	7.9
80°-90°	722.6	4.4
90°-100°	476.0	2.9
100°-110°	426.9	2.6
110°-120°	353.3	2.2
120°-130°	273.1	1.7
130°-140°	193.4	1.2
140°-150°	116.6	0.7
150°-160°	56.0	0.3
160°-170°	18.3	0.1
170°-180°	2.2	0.0
0°-30°	3570.4	21.8
0°-40°	5872.4	35.8
0°-60°	10590.8	64.6
0°-90°	14491.0	88.3
90°-120°	1256.3	7.7
90°-150°	1839.4	11.2
90°-180°	1916.0	11.7
0°-180°	16407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4557	4557	4557	4557	4557	
5°	4568	4560	4521	4557	4546	434
15°	4377	4392	4389	4448	4448	1234
25°	3995	4052	4099	4189	4192	1842
35°	3473	3565	3686	3804	3838	2173
45°	2855	3004	3186	3329	3369	2200
55°	2172	2366	2593	2756	2812	1944
65°	1469	1680	1942	2132	2192	1457
75°	764	986	1276	1478	1559	811
85°	169	419	708	905	983	194
90°	3	236	500	688	756	11
95°	3	225	486	666	730	2
105°	3	194	455	626	683	3
115°	6	169	385	556	618	4
125°	6	143	329	475	534	5
135°	6	112	275	390	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	



TEST NUMBER: P567586

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4557.2	4557.2	4557.2	4557.2	4557.2
2.5°	4588.1	4574.1	4526.3	4557.2	4543.2
5°	4568.5	4560.0	4520.7	4557.2	4546.0
7.5°	4537.6	4534.8	4503.8	4546.0	4534.8
10°	4495.4	4501.0	4475.8	4520.7	4512.3
12.5°	4442.0	4450.5	4439.2	4489.8	4484.2
15°	4377.4	4391.5	4388.7	4447.7	4447.7
17.5°	4298.7	4318.4	4329.6	4397.1	4397.1
20°	4206.0	4236.9	4259.4	4332.5	4343.7
22.5°	4113.3	4149.8	4183.5	4259.4	4276.3
25°	3995.3	4051.5	4099.3	4189.2	4192.0
27.5°	3880.1	3941.9	4006.5	4093.6	4102.1
30°	3753.7	3832.3	3911.0	3995.3	4020.6
32.5°	3618.8	3705.9	3793.0	3905.4	3939.1
35°	3472.7	3565.4	3686.2	3804.2	3838.0
37.5°	3326.6	3430.6	3571.0	3691.9	3722.8
40°	3177.7	3292.9	3450.2	3573.9	3610.4
42.5°	3011.9	3152.4	3321.0	3453.0	3495.2
45°	2854.6	3003.5	3186.1	3329.4	3368.8
47.5°	2688.8	2846.2	3042.8	3194.6	3239.5
50°	2511.8	2691.6	2902.4	3054.1	3096.2
52.5°	2346.0	2528.7	2750.6	2908.0	2967.0
55°	2171.8	2365.7	2593.3	2756.3	2812.4
57.5°	2008.9	2194.3	2438.8	2601.7	2672.0
60°	1823.5	2028.6	2273.0	2450.0	2506.2
62.5°	1649.3	1857.2	2110.0	2292.7	2357.3
65°	1469.4	1680.2	1941.5	2132.5	2191.5
67.5°	1300.9	1508.8	1775.7	1963.9	2039.8
70°	1115.4	1334.6	1607.1	1801.0	1865.6
72.5°	932.8	1160.4	1438.5	1646.4	1719.5
75°	764.2	986.2	1275.6	1477.9	1559.3
77.5°	601.3	826.0	1118.2	1326.1	1396.4
80°	438.3	674.3	972.1	1177.2	1244.7
82.5°	289.4	536.6	831.7	1036.8	1109.8
85°	168.6	418.6	708.0	904.7	983.4
87.5°	73.1	317.5	592.8	786.7	851.3
90°	2.8	236.0	500.1	688.4	755.8
92.5°	2.8	230.4	488.9	674.3	738.9
95°	2.8	224.8	486.1	665.9	730.5
97.5°	2.8	222.0	480.4	660.3	722.1
100°	2.8	213.5	472.0	649.0	710.8
102.5°	2.8	202.3	463.6	637.8	696.8
105°	2.8	193.9	455.2	626.5	682.7
107.5°	2.8	185.4	441.1	612.5	668.7
110°	2.8	177.0	418.6	598.5	654.6



TEST NUMBER: P567586

CATALOG NUMBER: 8SNX-180HL-FDL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	174.2	401.8	578.8	637.8
115°	5.6	168.6	384.9	556.3	618.1
117.5°	5.6	165.8	370.9	533.8	598.5
120°	5.6	157.3	356.8	514.2	576.0
122.5°	5.6	148.9	342.8	494.5	556.3
125°	5.6	143.3	328.7	474.8	533.8
127.5°	5.6	134.9	317.5	455.2	508.5
130°	5.6	129.2	303.4	432.7	486.1
132.5°	5.6	120.8	289.4	410.2	460.8
135°	5.6	112.4	275.3	390.5	438.3
137.5°	5.6	101.1	258.5	368.1	413.0
140°	5.6	92.7	236.0	345.6	387.7
142.5°	5.6	87.1	213.5	320.3	359.6
145°	5.6	81.5	191.1	295.0	331.5
147.5°	5.6	75.9	171.4	269.7	303.4
150°	5.6	67.4	151.7	247.2	275.3
152.5°	8.4	61.8	134.9	219.2	247.2
155°	8.4	56.2	118.0	188.2	219.2
157.5°	8.4	50.6	101.1	157.3	191.1
160°	8.4	45.0	87.1	129.2	163.0
162.5°	8.4	42.1	75.9	106.8	137.7
165°	8.4	36.5	64.6	87.1	112.4
167.5°	8.4	28.1	53.4	67.4	92.7
170°	8.4	22.5	42.1	47.8	70.2
172.5°	8.4	16.9	30.9	33.7	36.5
175°	8.4	14.0	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)