

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: P567611

Luminaire Tested: **8SNX-180HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567611
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-L835-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

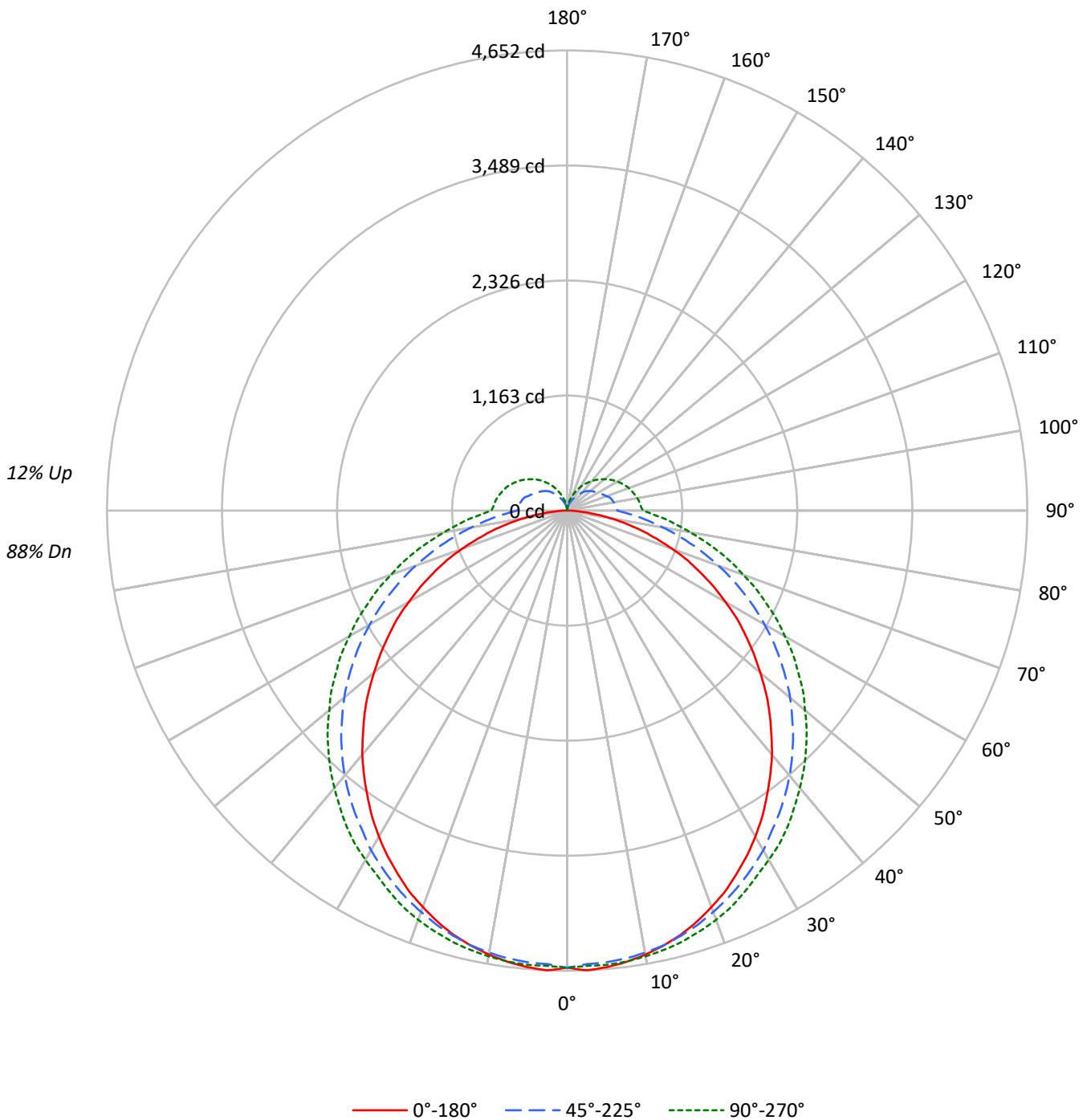
Lumens per Lamp: N/A
Luminaire Lumens: 16636.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P567611

CATALOG NUMBER: 8SNX-180HL-LW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567611

CATALOG NUMBER: 8SNX-180HL-LW-UNV-L835-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°	24869	24869	24869
5°	24980	23754	23530
10°	24819	22843	22374
15°	24593	21937	21319
20°	24242	21017	20299
25°	23825	20121	19255
30°	23372	19243	18294
35°	22802	18321	17431
40°	22248	17457	16493
45°	21580	16545	15599
50°	20808	15601	14648
55°	20067	14562	13707
60°	19208	13468	12695
65°	18162	12274	11647
70°	16834	10978	10512
75°	14951	9557	9426
80°	12318	8131	8181
85°	8524	6761	7143



TEST NUMBER: P567611

CATALOG NUMBER: 8SNX-180HL-LW-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.7	2.6
10°-20°	1261.9	7.6
20°-30°	1919.7	11.5
30°-40°	2334.1	14.0
40°-50°	2469.5	14.8
50°-60°	2314.8	13.9
60°-70°	1904.3	11.4
70°-80°	1317.6	7.9
80°-90°	732.7	4.4
90°-100°	482.7	2.9
100°-110°	432.8	2.6
110°-120°	358.3	2.2
120°-130°	277.0	1.7
130°-140°	196.1	1.2
140°-150°	118.3	0.7
150°-160°	56.8	0.3
160°-170°	18.6	0.1
170°-180°	2.3	0.0
0°-30°	3620.3	21.8
0°-40°	5954.4	35.8
0°-60°	10738.6	64.6
0°-90°	14693.2	88.3
90°-120°	1273.8	7.7
90°-150°	1865.1	11.2
90°-180°	1943.0	11.7
0°-180°	16636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4621	4621	4621	4621	4621	
5°	4632	4624	4584	4621	4609	440
15°	4438	4453	4450	4510	4510	1251
25°	4051	4108	4156	4248	4250	1867
35°	3521	3615	3738	3857	3892	2204
45°	2894	3045	3231	3376	3416	2231
55°	2202	2399	2630	2795	2852	1971
65°	1490	1704	1969	2162	2222	1477
75°	775	1000	1293	1498	1581	822
85°	171	424	718	917	997	197
90°	3	239	507	698	766	11
95°	3	228	493	675	741	2
105°	3	197	462	635	692	3
115°	6	171	390	564	627	5
125°	6	145	333	482	541	5
135°	6	114	279	396	444	4
145°	6	83	194	299	336	4
155°	8	57	120	191	222	4
165°	8	37	66	88	114	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



TEST NUMBER: P567611

CATALOG NUMBER: 8SNX-180HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4620.8	4620.8	4620.8	4620.8	4620.8
2.5°	4652.2	4637.9	4589.5	4620.8	4606.6
5°	4632.2	4623.7	4583.8	4620.8	4609.4
7.5°	4600.9	4598.0	4566.7	4609.4	4598.0
10°	4558.2	4563.9	4538.2	4583.8	4575.3
12.5°	4504.0	4512.6	4501.2	4552.5	4546.8
15°	4438.5	4452.8	4449.9	4509.7	4509.7
17.5°	4358.7	4378.7	4390.1	4458.5	4458.5
20°	4264.7	4296.1	4318.9	4392.9	4404.3
22.5°	4170.7	4207.8	4241.9	4318.9	4336.0
25°	4051.1	4108.0	4156.5	4247.6	4250.5
27.5°	3934.3	3996.9	4062.5	4150.8	4159.3
30°	3806.1	3885.8	3965.6	4051.1	4076.7
32.5°	3669.3	3757.6	3845.9	3959.9	3994.1
35°	3521.2	3615.2	3737.7	3857.3	3891.5
37.5°	3373.0	3478.4	3620.9	3743.4	3774.7
40°	3222.1	3338.9	3498.4	3623.7	3660.8
42.5°	3054.0	3196.4	3367.3	3501.2	3544.0
45°	2894.4	3045.4	3230.6	3375.9	3415.8
47.5°	2726.4	2885.9	3085.3	3239.1	3284.7
50°	2546.9	2729.2	2942.9	3096.7	3139.4
52.5°	2378.8	2564.0	2789.0	2948.6	3008.4
55°	2202.2	2398.7	2629.5	2794.7	2851.7
57.5°	2036.9	2225.0	2472.8	2638.0	2709.3
60°	1848.9	2056.9	2304.7	2484.2	2541.2
62.5°	1672.3	1883.1	2139.5	2324.7	2390.2
65°	1489.9	1703.6	1968.6	2162.3	2222.1
67.5°	1319.0	1529.8	1800.5	1991.3	2068.3
70°	1131.0	1353.2	1629.5	1826.1	1891.6
72.5°	945.8	1176.6	1458.6	1669.4	1743.5
75°	774.9	999.9	1293.4	1498.5	1581.1
77.5°	609.7	837.6	1133.8	1344.7	1415.9
80°	444.4	683.7	985.7	1193.7	1262.0
82.5°	293.4	544.1	843.3	1051.2	1125.3
85°	170.9	424.5	717.9	917.3	997.1
87.5°	74.1	321.9	601.1	797.7	863.2
90°	2.8	239.3	507.1	698.0	766.3
92.5°	2.8	233.6	495.7	683.7	749.2
95°	2.8	227.9	492.9	675.2	740.7
97.5°	2.8	225.1	487.2	669.5	732.2
100°	2.8	216.5	478.6	658.1	720.8
102.5°	2.8	205.1	470.1	646.7	706.5
105°	2.8	196.6	461.5	635.3	692.3
107.5°	2.8	188.0	447.3	621.0	678.0
110°	2.8	179.5	424.5	606.8	663.8



TEST NUMBER: P567611

CATALOG NUMBER: 8SNX-180HL-LW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	176.6	407.4	586.9	646.7
115°	5.7	170.9	390.3	564.1	626.7
117.5°	5.7	168.1	376.0	541.3	606.8
120°	5.7	159.5	361.8	521.3	584.0
122.5°	5.7	151.0	347.6	501.4	564.1
125°	5.7	145.3	333.3	481.5	541.3
127.5°	5.7	136.7	321.9	461.5	515.6
130°	5.7	131.0	307.7	438.7	492.9
132.5°	5.7	122.5	293.4	415.9	467.2
135°	5.7	114.0	279.2	396.0	444.4
137.5°	5.7	102.6	262.1	373.2	418.8
140°	5.7	94.0	239.3	350.4	393.1
142.5°	5.7	88.3	216.5	324.8	364.7
145°	5.7	82.6	193.7	299.1	336.2
147.5°	5.7	76.9	173.8	273.5	307.7
150°	5.7	68.4	153.8	250.7	279.2
152.5°	8.5	62.7	136.7	222.2	250.7
155°	8.5	57.0	119.7	190.9	222.2
157.5°	8.5	51.3	102.6	159.5	193.7
160°	8.5	45.6	88.3	131.0	165.2
162.5°	8.5	42.7	76.9	108.3	139.6
165°	8.5	37.0	65.5	88.3	114.0
167.5°	8.5	28.5	54.1	68.4	94.0
170°	8.5	22.8	42.7	48.4	71.2
172.5°	8.5	17.1	31.3	34.2	37.0
175°	8.5	14.2	19.9	19.9	11.4
177.5°	8.5	11.4	11.4	11.4	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)