

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: P567603

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-LN-UNV-L835-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

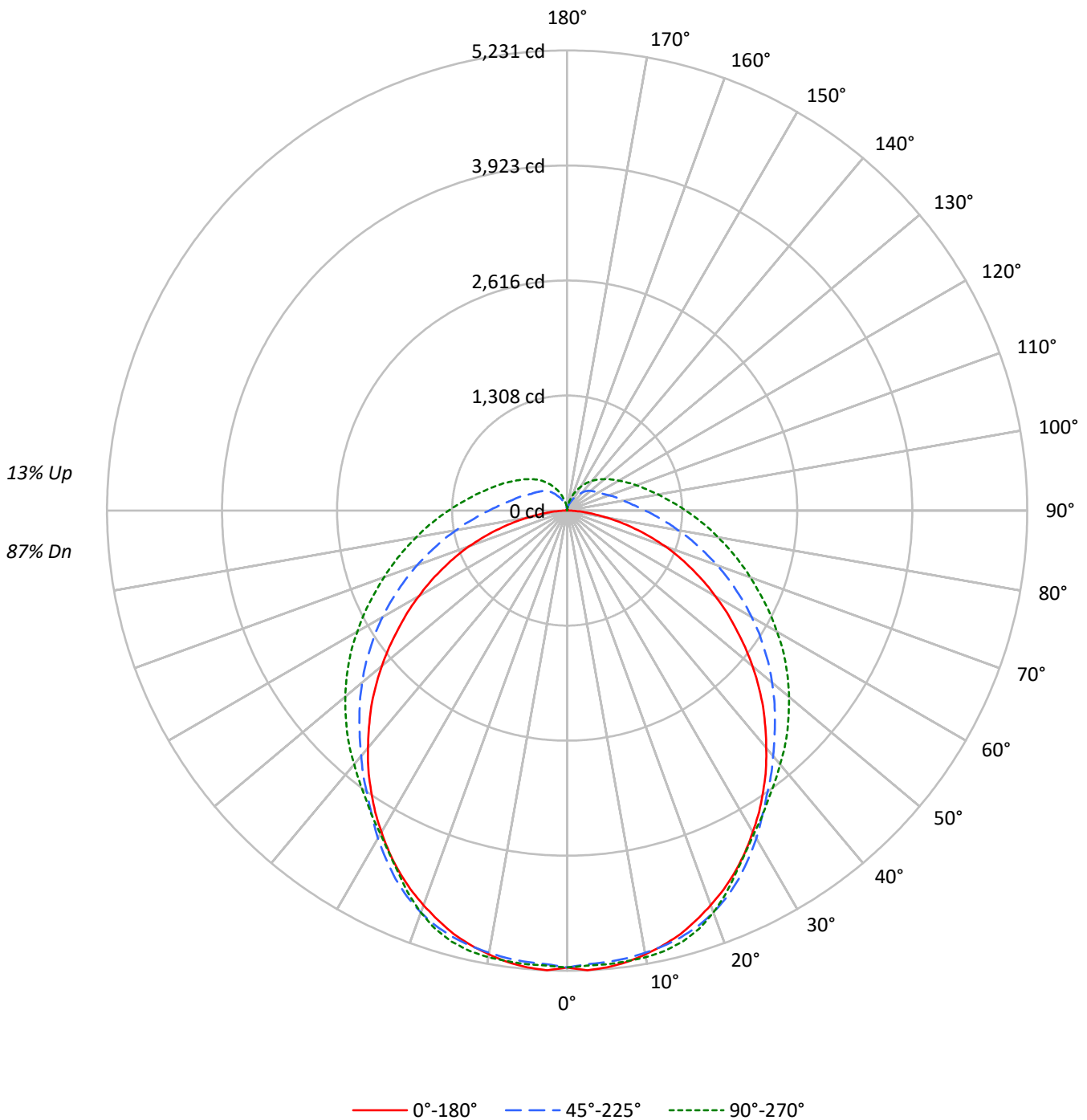
Lumens per Lamp: N/A
Luminaire Lumens: 18747.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567603

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

Luminous Intensity Polar Plot





TEST NUMBER: P567603

CATALOG NUMBER: 8SNX-180HL-LN-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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27950	27950	27950
5°	28108	26698	26429
10°	27896	25693	25209
15°	27613	24740	23979
20°	27135	23663	22412
25°	26617	22355	20574
30°	25918	20882	19040
35°	25171	19380	17895
40°	24316	18175	16968
45°	23483	17107	16169
50°	22487	16125	15363
55°	21315	15137	14574
60°	20208	14152	13750
65°	18984	13158	12993
70°	17597	12227	12310
75°	15391	11319	11747
80°	12509	10540	11270
85°	9037	9997	10997



TEST NUMBER: P567603

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.4	2.6
10°-20°	1418.4	7.6
20°-30°	2112.2	11.3
30°-40°	2492.3	13.3
40°-50°	2599.2	13.9
50°-60°	2442.5	13.0
60°-70°	2062.7	11.0
70°-80°	1558.5	8.3
80°-90°	1074.3	5.7
90°-100°	751.8	4.0
100°-110°	561.0	3.0
110°-120°	422.9	2.3
120°-130°	315.4	1.7
130°-140°	221.4	1.2
140°-150°	133.9	0.7
150°-160°	64.0	0.3
160°-170°	20.5	0.1
170°-180°	2.4	0.0
0°-30°	4024.0	21.5
0°-40°	6516.2	34.8
0°-60°	11557.9	61.7
0°-90°	16253.5	86.7
90°-120°	1735.8	9.3
90°-150°	2406.5	12.8
90°-180°	2493.0	13.3
0°-180°	18747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5193	5193	5193	5193	5193	
5°	5212	5203	5152	5190	5177	495
15°	4984	5006	5018	5082	5072	1403
25°	4526	4618	4618	4577	4542	2082
35°	3887	4030	3954	3986	3995	2431
45°	3150	3305	3340	3477	3541	2426
55°	2339	2539	2733	2953	3032	2099
65°	1557	1805	2110	2387	2479	1547
75°	798	1106	1532	1853	1970	850
85°	181	569	1062	1411	1535	203
90°	3	404	887	1227	1348	13
95°	3	315	750	1074	1186	3
105°	6	226	578	839	934	6
115°	6	194	448	667	753	7
125°	10	165	378	547	617	9
135°	10	127	315	445	499	7
145°	13	92	219	340	381	7
155°	13	60	134	216	251	6
165°	16	38	70	95	127	4
175°	16	16	19	19	10	1
180°	10	10	10	10	10	



TEST NUMBER: P567603

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5193.3	5193.3	5193.3	5193.3	5193.3
2.5°	5231.4	5218.7	5161.5	5193.3	5177.4
5°	5212.3	5202.8	5151.9	5190.1	5177.4
7.5°	5177.4	5174.2	5136.1	5180.6	5167.8
10°	5123.3	5132.9	5104.3	5164.7	5155.1
12.5°	5059.8	5078.9	5069.3	5136.1	5126.5
15°	4983.5	5005.8	5018.5	5082.0	5072.5
17.5°	4881.8	4923.1	4951.7	5002.6	4986.7
20°	4773.7	4830.9	4862.7	4888.2	4862.7
22.5°	4656.1	4732.4	4751.5	4738.8	4713.4
25°	4525.8	4618.0	4618.0	4576.7	4541.7
27.5°	4379.6	4494.1	4462.3	4414.6	4386.0
30°	4220.7	4357.4	4303.4	4249.3	4243.0
32.5°	4061.8	4204.8	4125.4	4112.7	4122.2
35°	3887.0	4030.0	3953.7	3985.5	3995.1
37.5°	3712.2	3855.2	3804.4	3852.0	3880.6
40°	3521.5	3674.1	3642.3	3728.1	3766.2
42.5°	3334.0	3492.9	3489.7	3601.0	3658.2
45°	3149.6	3305.4	3340.3	3477.0	3540.6
47.5°	2949.4	3108.3	3194.1	3353.1	3416.6
50°	2752.4	2924.0	3041.6	3219.6	3292.7
52.5°	2549.0	2730.1	2892.2	3089.3	3165.5
55°	2339.2	2539.4	2733.3	2952.6	3032.1
57.5°	2151.7	2355.1	2583.9	2809.6	2901.7
60°	1945.1	2170.7	2421.8	2660.2	2752.4
62.5°	1757.6	1989.6	2269.3	2520.4	2618.9
65°	1557.3	1805.2	2110.4	2386.9	2479.0
67.5°	1373.0	1627.3	1961.0	2240.7	2342.4
70°	1182.3	1452.5	1814.8	2110.4	2215.2
72.5°	985.3	1271.3	1668.6	1983.2	2091.3
75°	797.7	1106.0	1531.9	1852.9	1970.5
77.5°	622.9	947.1	1408.0	1738.5	1852.9
80°	451.3	804.1	1277.7	1620.9	1738.5
82.5°	298.8	680.1	1172.8	1516.0	1640.0
85°	181.2	568.9	1061.5	1411.1	1535.1
87.5°	82.6	476.7	972.5	1319.0	1439.7
90°	3.2	403.6	886.7	1226.8	1347.6
92.5°	3.2	352.8	816.8	1147.3	1264.9
95°	3.2	314.6	750.1	1074.2	1185.5
97.5°	3.2	289.2	699.2	1004.3	1112.4
100°	3.2	263.8	648.4	940.8	1052.0
102.5°	6.4	241.5	610.2	883.6	988.4
105°	6.4	225.7	578.4	839.1	934.4
107.5°	6.4	216.1	543.5	794.6	883.6
110°	6.4	206.6	505.3	750.1	839.1



TEST NUMBER: P567603

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	200.2	476.7	711.9	797.7
115°	6.4	193.9	448.1	667.4	753.2
117.5°	6.4	190.7	432.2	632.5	715.1
120°	9.5	181.2	413.2	600.7	680.1
122.5°	9.5	171.6	394.1	575.3	645.2
125°	9.5	165.3	378.2	546.7	616.6
127.5°	9.5	155.7	362.3	521.2	584.8
130°	9.5	146.2	349.6	495.8	556.2
132.5°	9.5	136.7	333.7	470.4	527.6
135°	9.5	127.1	314.6	445.0	499.0
137.5°	9.5	117.6	295.6	419.5	470.4
140°	9.5	108.1	270.2	394.1	441.8
142.5°	9.5	98.5	244.7	368.7	410.0
145°	12.7	92.2	219.3	340.1	381.4
147.5°	12.7	82.6	193.9	311.5	346.4
150°	12.7	76.3	174.8	282.9	314.6
152.5°	12.7	66.7	155.7	251.1	282.9
155°	12.7	60.4	133.5	216.1	251.1
157.5°	12.7	54.0	114.4	181.2	219.3
160°	12.7	50.9	98.5	149.4	187.5
162.5°	15.9	44.5	82.6	120.8	155.7
165°	15.9	38.1	69.9	95.3	127.1
167.5°	15.9	31.8	57.2	73.1	98.5
170°	15.9	25.4	44.5	50.9	76.3
172.5°	15.9	19.1	31.8	35.0	38.1
175°	15.9	15.9	19.1	19.1	9.5
177.5°	15.9	15.9	12.7	9.5	3.2
180°	9.5	9.5	9.5	9.5	9.5

(END OF REPORT)