

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: P567698

Luminaire Tested: **8SNX-200HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567698
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-200HL-LN-UNV-L830-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

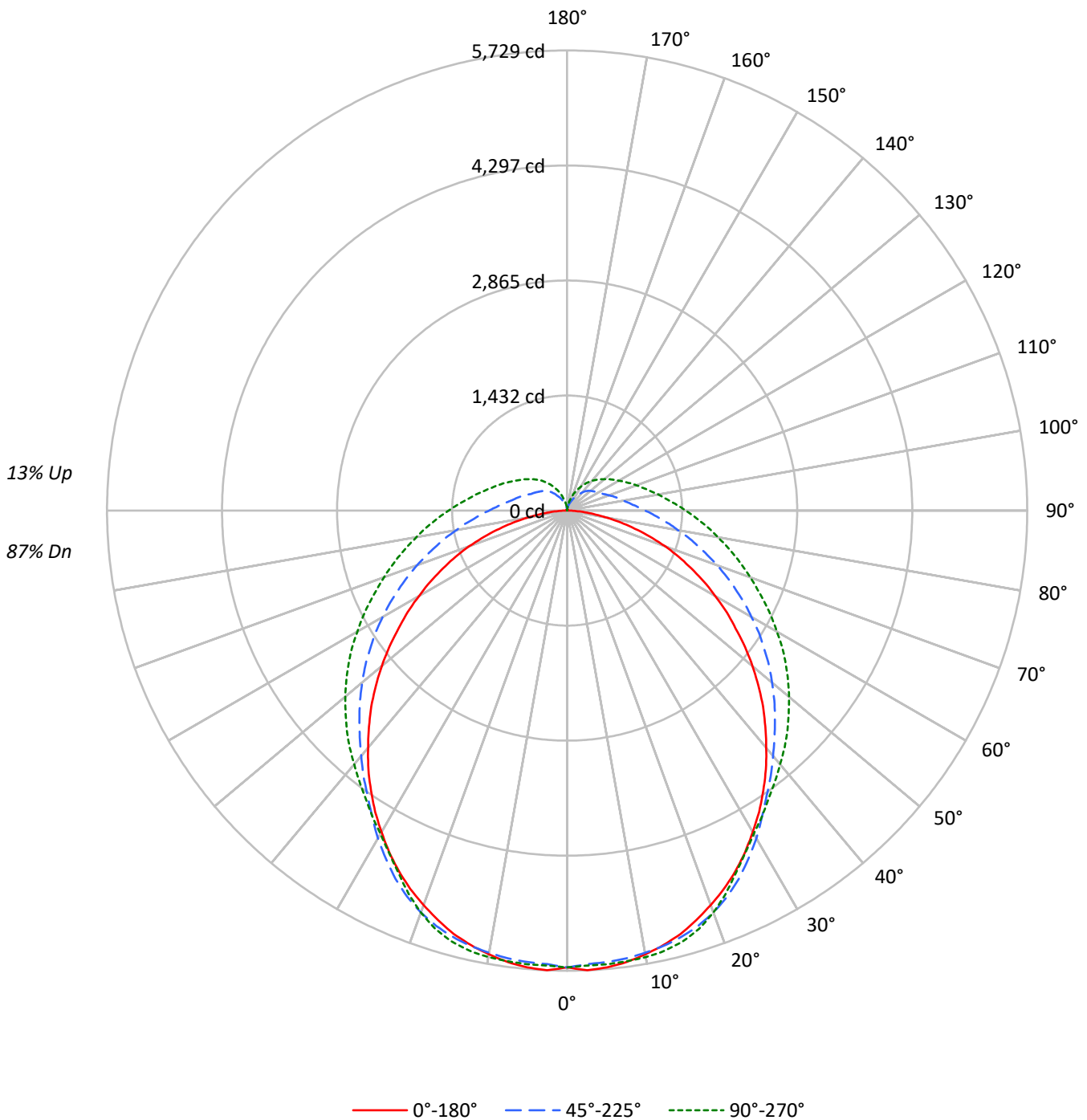
Lumens per Lamp: N/A
Luminaire Lumens: 20529.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 145
Input Voltage (V): NR
Input Current (A_{in}): 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: P567698

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L830-CD

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	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°	30607	30607	30607
5°	30780	29236	28941
10°	30548	28135	27606
15°	30238	27091	26259
20°	29714	25913	24543
25°	29147	24481	22530
30°	28382	22867	20850
35°	27564	21222	19596
40°	26627	19903	18581
45°	25715	18734	17706
50°	24624	17657	16823
55°	23340	16576	15960
60°	22129	15497	15056
65°	20789	14409	14229
70°	19270	13389	13480
75°	16855	12395	12864
80°	13698	11542	12342
85°	9895	10948	12042



TEST NUMBER: P567698

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.2	2.6
10°-20°	1553.3	7.6
20°-30°	2312.9	11.3
30°-40°	2729.2	13.3
40°-50°	2846.2	13.9
50°-60°	2674.7	13.0
60°-70°	2258.8	11.0
70°-80°	1706.7	8.3
80°-90°	1176.5	5.7
90°-100°	823.3	4.0
100°-110°	614.4	3.0
110°-120°	463.2	2.3
120°-130°	345.4	1.7
130°-140°	242.5	1.2
140°-150°	146.6	0.7
150°-160°	70.1	0.3
160°-170°	22.5	0.1
170°-180°	2.7	0.0
0°-30°	4406.5	21.5
0°-40°	7135.6	34.8
0°-60°	12656.6	61.7
0°-90°	17798.5	86.7
90°-120°	1900.8	9.3
90°-150°	2635.2	12.8
90°-180°	2730.0	13.3
0°-180°	20529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5687	5687	5687	5687	5687	
5°	5708	5697	5642	5683	5670	542
15°	5457	5482	5496	5565	5555	1537
25°	4956	5057	5057	5012	4973	2280
35°	4256	4413	4330	4364	4375	2662
45°	3449	3620	3658	3808	3877	2656
55°	2562	2781	2993	3233	3320	2298
65°	1705	1977	2311	2614	2715	1694
75°	874	1211	1678	2029	2158	930
85°	198	623	1162	1545	1681	222
90°	4	442	971	1343	1476	14
95°	4	345	821	1176	1298	3
105°	7	247	633	919	1023	7
115°	7	212	491	731	825	7
125°	10	181	414	599	675	9
135°	10	139	345	487	546	8
145°	14	101	240	372	418	8
155°	14	66	146	237	275	6
165°	17	42	77	104	139	5
175°	17	17	21	21	10	2
180°	10	10	10	10	10	



TEST NUMBER: P567698

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5686.9	5686.9	5686.9	5686.9	5686.9
2.5°	5728.7	5714.8	5652.1	5686.9	5669.5
5°	5707.8	5697.4	5641.7	5683.4	5669.5
7.5°	5669.5	5666.0	5624.3	5673.0	5659.1
10°	5610.3	5620.8	5589.5	5655.6	5645.2
12.5°	5540.7	5561.6	5551.2	5624.3	5613.8
15°	5457.2	5481.6	5495.5	5565.1	5554.7
17.5°	5345.8	5391.1	5422.4	5478.1	5460.7
20°	5227.5	5290.2	5325.0	5352.8	5325.0
22.5°	5098.7	5182.3	5203.1	5189.2	5161.4
25°	4956.0	5057.0	5057.0	5011.7	4973.4
27.5°	4795.9	4921.2	4886.4	4834.2	4802.9
30°	4621.9	4771.6	4712.4	4653.2	4646.3
32.5°	4447.9	4604.5	4517.5	4503.6	4514.0
35°	4256.5	4413.1	4329.6	4364.4	4374.8
37.5°	4065.1	4221.7	4166.0	4218.2	4249.5
40°	3856.2	4023.3	3988.5	4082.5	4124.2
42.5°	3650.9	3824.9	3821.4	3943.3	4005.9
45°	3449.0	3619.6	3657.9	3807.5	3877.1
47.5°	3229.8	3403.8	3497.8	3671.8	3741.4
50°	3014.0	3201.9	3330.7	3525.6	3605.7
52.5°	2791.3	2989.6	3167.1	3382.9	3466.4
55°	2561.5	2780.8	2993.1	3233.3	3320.3
57.5°	2356.2	2578.9	2829.5	3076.6	3177.6
60°	2130.0	2377.1	2652.0	2913.1	3014.0
62.5°	1924.6	2178.7	2485.0	2759.9	2867.8
65°	1705.4	1976.8	2311.0	2613.8	2714.7
67.5°	1503.5	1781.9	2147.4	2453.7	2565.0
70°	1294.7	1590.5	1987.3	2311.0	2425.8
72.5°	1078.9	1392.1	1827.2	2171.7	2290.1
75°	873.6	1211.2	1677.5	2029.1	2157.8
77.5°	682.2	1037.1	1541.8	1903.8	2029.1
80°	494.2	880.5	1399.1	1775.0	1903.8
82.5°	327.2	744.8	1284.3	1660.1	1795.9
85°	198.4	623.0	1162.4	1545.3	1681.0
87.5°	90.5	522.1	1065.0	1444.4	1576.6
90°	3.5	442.0	971.0	1343.4	1475.7
92.5°	3.5	386.3	894.5	1256.4	1385.2
95°	3.5	344.6	821.4	1176.4	1298.2
97.5°	3.5	316.7	765.7	1099.8	1218.1
100°	3.5	288.9	710.0	1030.2	1152.0
102.5°	7.0	264.5	668.2	967.5	1082.4
105°	7.0	247.1	633.4	918.8	1023.2
107.5°	7.0	236.7	595.1	870.1	967.5
110°	7.0	226.2	553.4	821.4	918.8



TEST NUMBER: P567698

CATALOG NUMBER: 8SNX-200HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	219.3	522.1	779.6	873.6
115°	7.0	212.3	490.7	730.9	824.8
117.5°	7.0	208.8	473.3	692.6	783.1
120°	10.4	198.4	452.4	657.8	744.8
122.5°	10.4	187.9	431.6	629.9	706.5
125°	10.4	181.0	414.2	598.6	675.2
127.5°	10.4	170.5	396.8	570.8	640.4
130°	10.4	160.1	382.8	542.9	609.1
132.5°	10.4	149.7	365.4	515.1	577.7
135°	10.4	139.2	344.6	487.3	546.4
137.5°	10.4	128.8	323.7	459.4	515.1
140°	10.4	118.3	295.8	431.6	483.8
142.5°	10.4	107.9	268.0	403.7	449.0
145°	13.9	100.9	240.1	372.4	417.6
147.5°	13.9	90.5	212.3	341.1	379.4
150°	13.9	83.5	191.4	309.8	344.6
152.5°	13.9	73.1	170.5	274.9	309.8
155°	13.9	66.1	146.2	236.7	274.9
157.5°	13.9	59.2	125.3	198.4	240.1
160°	13.9	55.7	107.9	163.6	205.3
162.5°	17.4	48.7	90.5	132.3	170.5
165°	17.4	41.8	76.6	104.4	139.2
167.5°	17.4	34.8	62.6	80.0	107.9
170°	17.4	27.8	48.7	55.7	83.5
172.5°	17.4	20.9	34.8	38.3	41.8
175°	17.4	17.4	20.9	20.9	10.4
177.5°	17.4	17.4	13.9	10.4	3.5
180°	10.4	10.4	10.4	10.4	10.4

(END OF REPORT)