

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: P567683

Luminaire Tested: **8SNX-200HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567683
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-200HL-FDL-UNV-L835-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

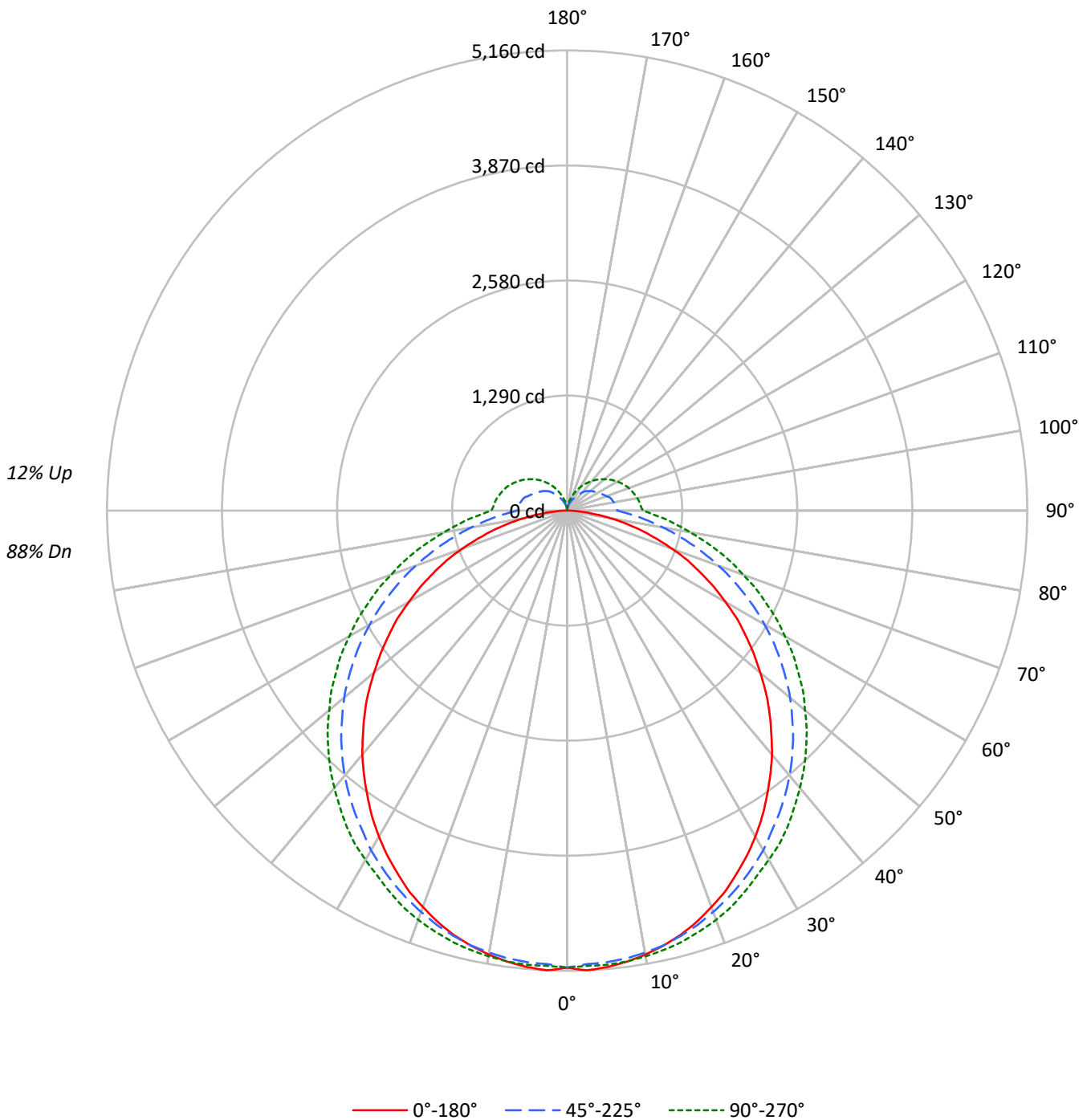
Lumens per Lamp: N/A
Luminaire Lumens: 18452.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 145
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: P567683

CATALOG NUMBER: 8SNX-200HL-FDL-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567683

CATALOG NUMBER: 8SNX-200HL-FDL-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°	27584	27584	27584
5°	27745	27178	27224
10°	27604	26931	26941
15°	27392	26633	26679
20°	27041	26274	26379
25°	26618	25909	25977
30°	26156	25542	25634
35°	25567	25102	25395
40°	24999	24739	25027
45°	24309	24318	24716
50°	23507	23872	24324
55°	22750	23319	23973
60°	21876	22731	23543
65°	20813	22057	23123
70°	19462	21321	22646
75°	17532	20523	22483
80°	14838	20059	22303
85°	11050	20582	23508



TEST NUMBER: P567683

CATALOG NUMBER: 8SNX-200HL-FDL-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	2.6
10°-20°	1399.6	7.6
20°-30°	2129.2	11.5
30°-40°	2588.9	14.0
40°-50°	2739.0	14.8
50°-60°	2567.5	13.9
60°-70°	2112.2	11.4
70°-80°	1461.5	7.9
80°-90°	812.7	4.4
90°-100°	535.4	2.9
100°-110°	480.1	2.6
110°-120°	397.4	2.2
120°-130°	307.2	1.7
130°-140°	217.5	1.2
140°-150°	131.2	0.7
150°-160°	63.0	0.3
160°-170°	20.6	0.1
170°-180°	2.5	0.0
0°-30°	4015.4	21.8
0°-40°	6604.4	35.8
0°-60°	11910.9	64.6
0°-90°	16297.2	88.3
90°-120°	1412.8	7.7
90°-150°	2068.7	11.2
90°-180°	2155.0	11.7
0°-180°	18452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5125	5125	5125	5125	5125	
5°	5138	5128	5084	5125	5113	488
15°	4923	4939	4936	5002	5002	1388
25°	4493	4556	4610	4711	4714	2071
35°	3906	4010	4146	4278	4316	2444
45°	3210	3378	3583	3744	3789	2474
55°	2443	2661	2916	3100	3163	2187
65°	1653	1890	2183	2398	2465	1639
75°	860	1109	1435	1662	1754	912
85°	190	471	796	1018	1106	218
90°	3	265	562	774	850	13
95°	3	253	547	749	822	3
105°	3	218	512	705	768	3
115°	6	190	433	626	695	5
125°	6	161	370	534	600	6
135°	6	126	310	439	493	5
145°	6	92	215	332	373	4
155°	10	63	133	212	246	4
165°	10	41	73	98	126	3
175°	10	16	22	22	13	1
180°	6	6	6	6	6	



TEST NUMBER: P567683

CATALOG NUMBER: 8SNX-200HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5125.3	5125.3	5125.3	5125.3	5125.3
2.5°	5160.0	5144.2	5090.5	5125.3	5109.5
5°	5137.9	5128.4	5084.2	5125.3	5112.6
7.5°	5103.1	5100.0	5065.2	5112.6	5100.0
10°	5055.7	5062.1	5033.6	5084.2	5074.7
12.5°	4995.7	5005.2	4992.5	5049.4	5043.1
15°	4923.0	4938.8	4935.7	5002.0	5002.0
17.5°	4834.5	4856.7	4869.3	4945.1	4945.1
20°	4730.3	4765.0	4790.3	4872.5	4885.1
22.5°	4626.0	4667.1	4705.0	4790.3	4809.3
25°	4493.3	4556.5	4610.2	4711.3	4714.5
27.5°	4363.7	4433.2	4505.9	4603.9	4613.4
30°	4221.5	4310.0	4398.5	4493.3	4521.7
32.5°	4069.9	4167.8	4265.8	4392.2	4430.1
35°	3905.6	4009.8	4145.7	4278.4	4316.3
37.5°	3741.2	3858.2	4016.2	4152.0	4186.8
40°	3573.8	3703.3	3880.3	4019.3	4060.4
42.5°	3387.3	3545.3	3734.9	3883.4	3930.8
45°	3210.4	3377.9	3583.3	3744.4	3788.6
47.5°	3024.0	3200.9	3422.1	3592.7	3643.3
50°	2824.9	3027.1	3264.1	3434.7	3482.1
52.5°	2638.5	2843.9	3093.5	3270.4	3336.8
55°	2442.6	2660.6	2916.5	3099.8	3163.0
57.5°	2259.3	2467.8	2742.7	2926.0	3005.0
60°	2050.7	2281.4	2556.3	2755.4	2818.6
62.5°	1854.8	2088.7	2373.0	2578.4	2651.1
65°	1652.6	1889.6	2183.4	2398.3	2464.7
67.5°	1463.0	1696.8	1997.0	2208.7	2294.0
70°	1254.5	1500.9	1807.4	2025.5	2098.1
72.5°	1049.1	1305.0	1617.8	1851.7	1933.8
75°	859.5	1109.1	1434.6	1662.1	1753.7
77.5°	676.2	929.0	1257.6	1491.4	1570.4
80°	492.9	758.4	1093.3	1324.0	1399.8
82.5°	325.5	603.5	935.3	1166.0	1248.1
85°	189.6	470.8	796.3	1017.5	1105.9
87.5°	82.2	357.1	666.7	884.8	957.4
90°	3.2	265.4	562.5	774.2	850.0
92.5°	3.2	259.1	549.8	758.4	831.0
95°	3.2	252.8	546.7	748.9	821.6
97.5°	3.2	249.6	540.3	742.6	812.1
100°	3.2	240.1	530.9	729.9	799.4
102.5°	3.2	227.5	521.4	717.3	783.6
105°	3.2	218.0	511.9	704.6	767.8
107.5°	3.2	208.5	496.1	688.8	752.0
110°	3.2	199.1	470.8	673.0	736.2



TEST NUMBER: P567683

CATALOG NUMBER: 8SNX-200HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	195.9	451.9	650.9	717.3
115°	6.3	189.6	432.9	625.6	695.2
117.5°	6.3	186.4	417.1	600.4	673.0
120°	6.3	177.0	401.3	578.2	647.8
122.5°	6.3	167.5	385.5	556.1	625.6
125°	6.3	161.2	369.7	534.0	600.4
127.5°	6.3	151.7	357.1	511.9	571.9
130°	6.3	145.4	341.3	486.6	546.7
132.5°	6.3	135.9	325.5	461.3	518.2
135°	6.3	126.4	309.7	439.2	492.9
137.5°	6.3	113.8	290.7	413.9	464.5
140°	6.3	104.3	265.4	388.7	436.1
142.5°	6.3	98.0	240.1	360.2	404.5
145°	6.3	91.6	214.9	331.8	372.9
147.5°	6.3	85.3	192.7	303.3	341.3
150°	6.3	75.8	170.6	278.1	309.7
152.5°	9.5	69.5	151.7	246.5	278.1
155°	9.5	63.2	132.7	211.7	246.5
157.5°	9.5	56.9	113.8	177.0	214.9
160°	9.5	50.6	98.0	145.4	183.3
162.5°	9.5	47.4	85.3	120.1	154.8
165°	9.5	41.1	72.7	98.0	126.4
167.5°	9.5	31.6	60.0	75.8	104.3
170°	9.5	25.3	47.4	53.7	79.0
172.5°	9.5	19.0	34.8	37.9	41.1
175°	9.5	15.8	22.1	22.1	12.6
177.5°	9.5	12.6	12.6	12.6	6.3
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)