

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: P567443

Luminaire Tested: **8SNX-162HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567443
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-162HL-FDL-UNV-L835-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

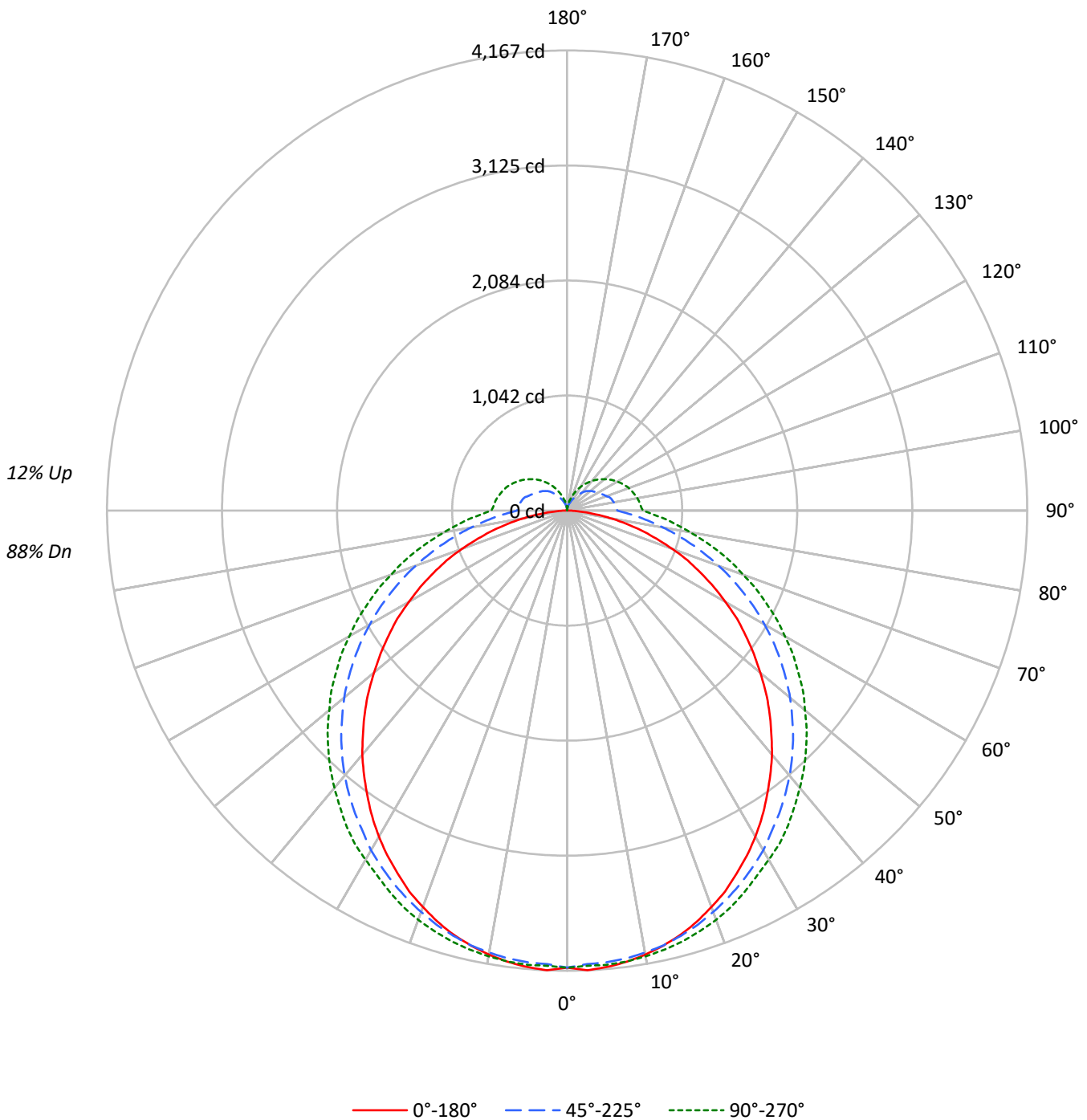
Lumens per Lamp: N/A
Luminaire Lumens: 14900.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 110.2
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

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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	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°	22274	22274	22274
5°	22404	21947	21983
10°	22290	21747	21755
15°	22119	21506	21543
20°	21835	21216	21301
25°	21494	20921	20976
30°	21121	20626	20699
35°	20645	20270	20506
40°	20186	19976	20209
45°	19629	19637	19959
50°	18981	19277	19641
55°	18371	18830	19358
60°	17666	18355	19011
65°	16807	17811	18671
70°	15715	17217	18286
75°	14156	16572	18154
80°	11981	16197	18009
85°	8923	16619	18982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	2.6
10°-20°	1130.2	7.6
20°-30°	1719.4	11.5
30°-40°	2090.6	14.0
40°-50°	2211.8	14.8
50°-60°	2073.2	13.9
60°-70°	1705.6	11.4
70°-80°	1180.1	7.9
80°-90°	656.2	4.4
90°-100°	432.3	2.9
100°-110°	387.7	2.6
110°-120°	320.9	2.2
120°-130°	248.1	1.7
130°-140°	175.6	1.2
140°-150°	105.9	0.7
150°-160°	50.9	0.3
160°-170°	16.7	0.1
170°-180°	2.0	0.0
0°-30°	3242.5	21.8
0°-40°	5333.0	35.8
0°-60°	9618.1	64.6
0°-90°	13160.0	88.3
90°-120°	1140.9	7.7
90°-150°	1670.5	11.2
90°-180°	1740.0	11.7
0°-180°	14900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4139	4139	4139	4139	4139	
5°	4149	4141	4106	4139	4128	394
15°	3975	3988	3986	4039	4039	1120
25°	3628	3679	3723	3804	3807	1672
35°	3154	3238	3348	3455	3485	1974
45°	2592	2728	2894	3024	3059	1998
55°	1972	2148	2355	2503	2554	1766
65°	1334	1526	1763	1937	1990	1323
75°	694	896	1158	1342	1416	736
85°	153	380	643	822	893	176
90°	3	214	454	625	686	10
95°	3	204	441	605	663	2
105°	3	176	413	569	620	3
115°	5	153	350	505	561	4
125°	5	130	298	431	485	5
135°	5	102	250	355	398	4
145°	5	74	174	268	301	3
155°	8	51	107	171	199	3
165°	8	33	59	79	102	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4138.6	4138.6	4138.6	4138.6	4138.6
2.5°	4166.7	4154.0	4110.6	4138.6	4125.9
5°	4148.9	4141.2	4105.5	4138.6	4128.4
7.5°	4120.8	4118.2	4090.2	4128.4	4118.2
10°	4082.5	4087.6	4064.6	4105.5	4097.8
12.5°	4034.0	4041.7	4031.5	4077.4	4072.3
15°	3975.3	3988.1	3985.5	4039.1	4039.1
17.5°	3903.9	3921.8	3932.0	3993.2	3993.2
20°	3819.7	3847.8	3868.2	3934.5	3944.7
22.5°	3735.5	3768.7	3799.3	3868.2	3883.5
25°	3628.3	3679.4	3722.7	3804.4	3806.9
27.5°	3523.7	3579.9	3638.5	3717.6	3725.3
30°	3408.9	3480.3	3551.8	3628.3	3651.3
32.5°	3286.4	3365.5	3444.6	3546.7	3577.3
35°	3153.7	3237.9	3347.7	3454.8	3485.4
37.5°	3021.1	3115.5	3243.0	3352.8	3380.8
40°	2885.8	2990.4	3133.3	3245.6	3278.8
42.5°	2735.3	2862.9	3016.0	3135.9	3174.2
45°	2592.4	2727.6	2893.5	3023.6	3059.3
47.5°	2441.9	2584.7	2763.3	2901.1	2942.0
50°	2281.1	2444.4	2635.8	2773.6	2811.8
52.5°	2130.6	2296.4	2498.0	2640.9	2694.5
55°	1972.4	2148.4	2355.1	2503.1	2554.1
57.5°	1824.4	1992.8	2214.8	2362.8	2426.5
60°	1656.0	1842.2	2064.2	2225.0	2276.0
62.5°	1497.8	1686.6	1916.2	2082.1	2140.8
65°	1334.5	1525.8	1763.1	1936.6	1990.2
67.5°	1181.4	1370.2	1612.6	1783.5	1852.4
70°	1013.0	1212.0	1459.5	1635.6	1694.2
72.5°	847.1	1053.8	1306.4	1495.2	1561.6
75°	694.0	895.6	1158.4	1342.1	1416.1
77.5°	546.0	750.2	1015.5	1204.3	1268.1
80°	398.0	612.4	882.8	1069.1	1130.3
82.5°	262.8	487.3	755.3	941.5	1007.9
85°	153.1	380.2	643.0	821.6	893.0
87.5°	66.3	288.3	538.4	714.4	773.1
90°	2.6	214.3	454.2	625.1	686.4
92.5°	2.6	209.2	444.0	612.4	671.1
95°	2.6	204.1	441.4	604.7	663.4
97.5°	2.6	201.6	436.3	599.6	655.8
100°	2.6	193.9	428.7	589.4	645.5
102.5°	2.6	183.7	421.0	579.2	632.8
105°	2.6	176.1	413.4	569.0	620.0
107.5°	2.6	168.4	400.6	556.2	607.3
110°	2.6	160.7	380.2	543.5	594.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	158.2	364.9	525.6	579.2
115°	5.1	153.1	349.6	505.2	561.3
117.5°	5.1	150.5	336.8	484.8	543.5
120°	5.1	142.9	324.0	466.9	523.1
122.5°	5.1	135.2	311.3	449.1	505.2
125°	5.1	130.1	298.5	431.2	484.8
127.5°	5.1	122.5	288.3	413.4	461.8
130°	5.1	117.4	275.6	392.9	441.4
132.5°	5.1	109.7	262.8	372.5	418.5
135°	5.1	102.1	250.1	354.7	398.0
137.5°	5.1	91.9	234.7	334.3	375.1
140°	5.1	84.2	214.3	313.8	352.1
142.5°	5.1	79.1	193.9	290.9	326.6
145°	5.1	74.0	173.5	267.9	301.1
147.5°	5.1	68.9	155.6	245.0	275.6
150°	5.1	61.2	137.8	224.5	250.1
152.5°	7.7	56.1	122.5	199.0	224.5
155°	7.7	51.0	107.2	171.0	199.0
157.5°	7.7	45.9	91.9	142.9	173.5
160°	7.7	40.8	79.1	117.4	148.0
162.5°	7.7	38.3	68.9	97.0	125.0
165°	7.7	33.2	58.7	79.1	102.1
167.5°	7.7	25.5	48.5	61.2	84.2
170°	7.7	20.4	38.3	43.4	63.8
172.5°	7.7	15.3	28.1	30.6	33.2
175°	7.7	12.8	17.9	17.9	10.2
177.5°	7.7	10.2	10.2	10.2	5.1
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)