

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: P567468

Luminaire Tested: **8SNX-162HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567468
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-LW-UNV-L840-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

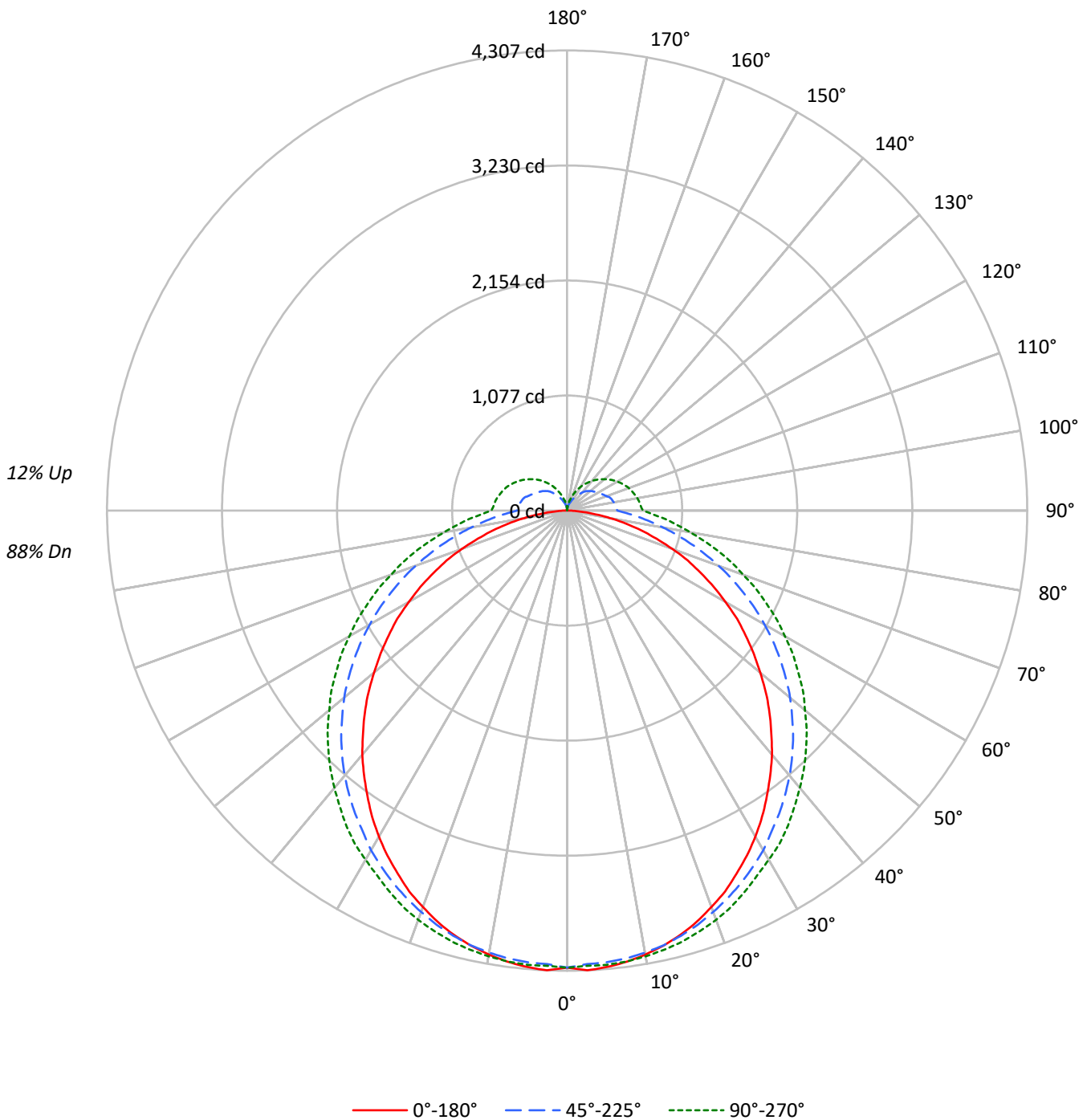
Lumens per Lamp: N/A
Luminaire Lumens: 15401.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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°	23023	23023	23023
5°	23126	21990	21784
10°	22977	21147	20713
15°	22767	20308	19736
20°	22442	19456	18793
25°	22056	18627	17825
30°	21637	17815	16936
35°	21109	16961	16137
40°	20597	16161	15269
45°	19979	15317	14441
50°	19263	14443	13561
55°	18577	13481	12690
60°	17782	12468	11752
65°	16814	11362	10782
70°	15583	10164	9731
75°	13842	8847	8726
80°	11403	7528	7574
85°	7890	6259	6613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	2.6
10°-20°	1168.2	7.6
20°-30°	1777.2	11.5
30°-40°	2160.9	14.0
40°-50°	2286.1	14.8
50°-60°	2143.0	13.9
60°-70°	1762.9	11.4
70°-80°	1219.8	7.9
80°-90°	678.3	4.4
90°-100°	446.9	2.9
100°-110°	400.7	2.6
110°-120°	331.7	2.2
120°-130°	256.4	1.7
130°-140°	181.5	1.2
140°-150°	109.5	0.7
150°-160°	52.6	0.3
160°-170°	17.2	0.1
170°-180°	2.1	0.0
0°-30°	3351.5	21.8
0°-40°	5512.3	35.8
0°-60°	9941.4	64.6
0°-90°	13602.5	88.3
90°-120°	1179.2	7.7
90°-150°	1726.7	11.2
90°-180°	1799.0	11.7
0°-180°	15401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4278	4278	4278	4278	4278	
5°	4288	4280	4244	4278	4267	407
15°	4109	4122	4120	4175	4175	1158
25°	3750	3803	3848	3932	3935	1729
35°	3260	3347	3460	3571	3603	2040
45°	2680	2819	2991	3125	3162	2065
55°	2039	2221	2434	2587	2640	1825
65°	1379	1577	1822	2002	2057	1368
75°	717	926	1197	1387	1464	761
85°	158	393	665	849	923	182
90°	3	222	470	646	710	10
95°	3	211	456	625	686	2
105°	3	182	427	588	641	3
115°	5	158	361	522	580	4
125°	5	134	309	446	501	5
135°	5	106	258	367	411	4
145°	5	76	179	277	311	3
155°	8	53	111	177	206	3
165°	8	34	61	82	106	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°	4277.8	4277.8	4277.8	4277.8	4277.8
2.5°	4306.8	4293.6	4248.8	4277.8	4264.6
5°	4288.4	4280.4	4243.5	4277.8	4267.3
7.5°	4259.3	4256.7	4227.7	4267.3	4256.7
10°	4219.8	4225.1	4201.3	4243.5	4235.6
12.5°	4169.7	4177.6	4167.0	4214.5	4209.2
15°	4109.0	4122.2	4119.6	4174.9	4174.9
17.5°	4035.2	4053.6	4064.2	4127.5	4127.5
20°	3948.1	3977.1	3998.2	4066.8	4077.4
22.5°	3861.1	3895.4	3927.0	3998.2	4014.1
25°	3750.3	3803.1	3847.9	3932.3	3934.9
27.5°	3642.2	3700.2	3760.9	3842.6	3850.5
30°	3523.5	3597.4	3671.2	3750.3	3774.1
32.5°	3396.9	3478.7	3560.4	3665.9	3697.6
35°	3259.8	3346.8	3460.2	3571.0	3602.6
37.5°	3122.6	3220.2	3352.1	3465.5	3494.5
40°	2982.9	3091.0	3238.7	3354.7	3389.0
42.5°	2827.3	2959.1	3117.4	3241.3	3280.9
45°	2679.6	2819.3	2990.8	3125.3	3162.2
47.5°	2524.0	2671.6	2856.3	2998.7	3040.9
50°	2357.8	2526.6	2724.4	2866.8	2906.4
52.5°	2202.2	2373.6	2582.0	2729.7	2785.1
55°	2038.7	2220.7	2434.3	2587.3	2640.0
57.5°	1885.7	2059.8	2289.2	2442.2	2508.1
60°	1711.6	1904.2	2133.6	2299.8	2352.5
62.5°	1548.1	1743.3	1980.7	2152.1	2212.7
65°	1379.3	1577.1	1822.4	2001.8	2057.1
67.5°	1221.1	1416.3	1666.8	1843.5	1914.7
70°	1047.0	1252.7	1508.6	1690.5	1751.2
72.5°	875.6	1089.2	1350.3	1545.5	1614.1
75°	717.4	925.7	1197.4	1387.3	1463.7
77.5°	564.4	775.4	1049.7	1244.8	1310.8
80°	411.4	633.0	912.5	1105.1	1168.4
82.5°	271.6	503.7	780.7	973.2	1041.8
85°	158.2	393.0	664.6	849.2	923.1
87.5°	68.6	298.0	556.5	738.5	799.1
90°	2.6	221.5	469.5	646.2	709.5
92.5°	2.6	216.3	458.9	633.0	693.6
95°	2.6	211.0	456.3	625.1	685.7
97.5°	2.6	208.4	451.0	619.8	677.8
100°	2.6	200.4	443.1	609.2	667.3
102.5°	2.6	189.9	435.2	598.7	654.1
105°	2.6	182.0	427.3	588.1	640.9
107.5°	2.6	174.1	414.1	574.9	627.7
110°	2.6	166.2	393.0	561.8	614.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.5	377.1	543.3	598.7
115°	5.3	158.2	361.3	522.2	580.2
117.5°	5.3	155.6	348.1	501.1	561.8
120°	5.3	147.7	334.9	482.6	540.7
122.5°	5.3	139.8	321.8	464.2	522.2
125°	5.3	134.5	308.6	445.7	501.1
127.5°	5.3	126.6	298.0	427.3	477.4
130°	5.3	121.3	284.8	406.2	456.3
132.5°	5.3	113.4	271.6	385.1	432.5
135°	5.3	105.5	258.5	366.6	411.4
137.5°	5.3	94.9	242.6	345.5	387.7
140°	5.3	87.0	221.5	324.4	364.0
142.5°	5.3	81.8	200.4	300.7	337.6
145°	5.3	76.5	179.3	276.9	311.2
147.5°	5.3	71.2	160.9	253.2	284.8
150°	5.3	63.3	142.4	232.1	258.5
152.5°	7.9	58.0	126.6	205.7	232.1
155°	7.9	52.7	110.8	176.7	205.7
157.5°	7.9	47.5	94.9	147.7	179.3
160°	7.9	42.2	81.8	121.3	153.0
162.5°	7.9	39.6	71.2	100.2	129.2
165°	7.9	34.3	60.7	81.8	105.5
167.5°	7.9	26.4	50.1	63.3	87.0
170°	7.9	21.1	39.6	44.8	65.9
172.5°	7.9	15.8	29.0	31.6	34.3
175°	7.9	13.2	18.5	18.5	10.5
177.5°	7.9	10.5	10.5	10.5	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)