

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: P567459

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567459
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-162HL-LN-UNV-L835-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

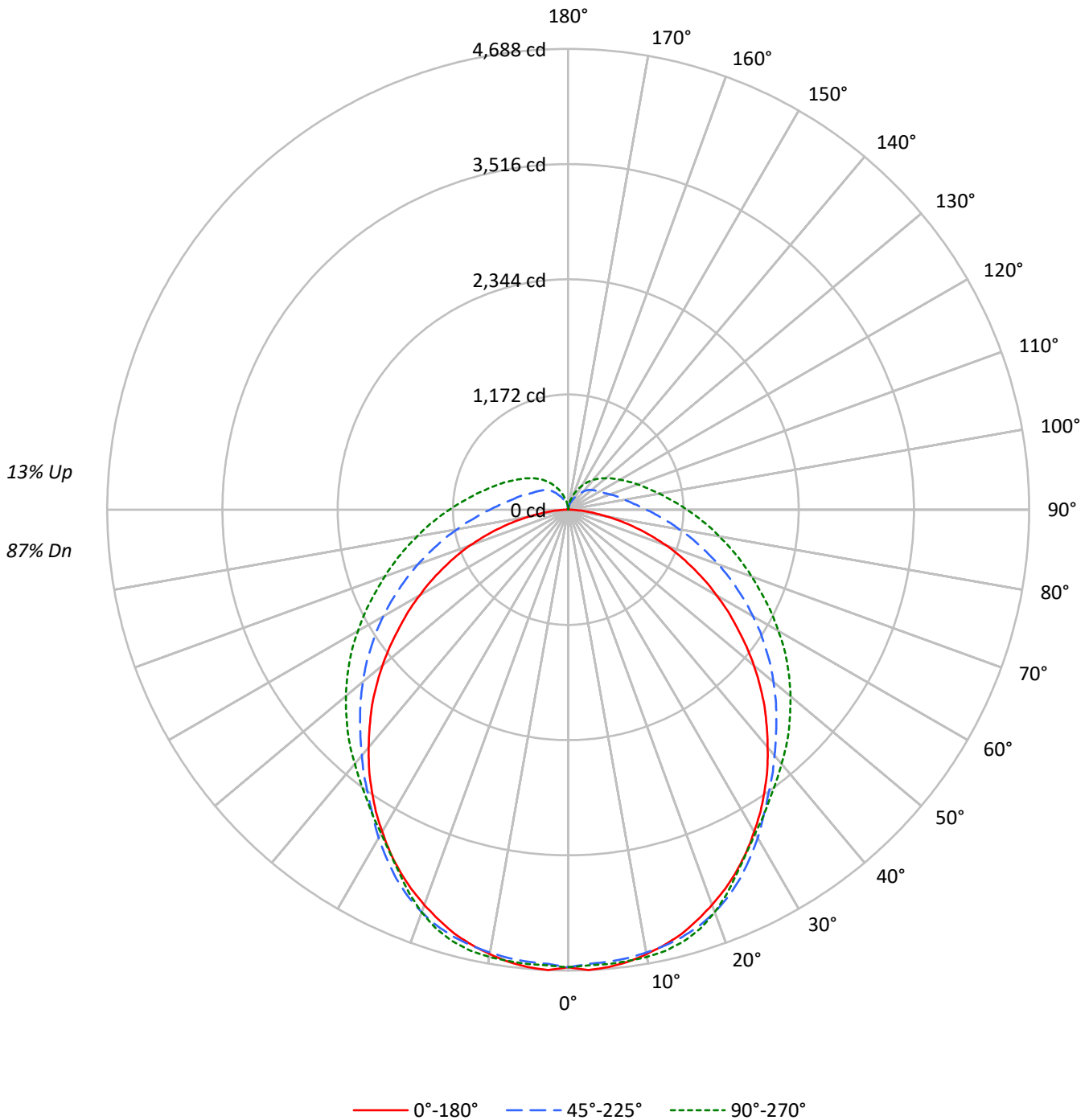
Lumens per Lamp: N/A
Luminaire Lumens: 16800.0 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	25047	25047	25047
5°	25189	23925	23685
10°	25000	23024	22591
15°	24745	22170	21489
20°	24317	21206	20085
25°	23853	20034	18437
30°	23227	18713	17062
35°	22557	17367	16036
40°	21791	16288	15206
45°	21044	15331	14490
50°	20151	14450	13767
55°	19102	13565	13061
60°	18109	12682	12321
65°	17013	11791	11644
70°	15769	10957	11032
75°	13793	10143	10527
80°	11209	9446	10099
85°	8095	8959	9855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.1	2.6
10°-20°	1271.1	7.6
20°-30°	1892.8	11.3
30°-40°	2233.4	13.3
40°-50°	2329.2	13.9
50°-60°	2188.9	13.0
60°-70°	1848.5	11.0
70°-80°	1396.7	8.3
80°-90°	962.8	5.7
90°-100°	673.7	4.0
100°-110°	502.8	3.0
110°-120°	379.0	2.3
120°-130°	282.7	1.7
130°-140°	198.4	1.2
140°-150°	120.0	0.7
150°-160°	57.4	0.3
160°-170°	18.4	0.1
170°-180°	2.2	0.0
0°-30°	3606.0	21.5
0°-40°	5839.5	34.8
0°-60°	10357.6	61.7
0°-90°	14565.5	86.7
90°-120°	1555.5	9.3
90°-150°	2156.5	12.8
90°-180°	2234.0	13.3
0°-180°	16800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4654	4654	4654	4654	4654	
5°	4671	4662	4617	4651	4640	443
15°	4466	4486	4497	4554	4546	1258
25°	4056	4138	4138	4101	4070	1866
35°	3483	3612	3543	3572	3580	2178
45°	2822	2962	2993	3116	3173	2174
55°	2096	2276	2449	2646	2717	1881
65°	1396	1618	1891	2139	2222	1386
75°	715	991	1373	1660	1766	761
85°	162	510	951	1265	1376	182
90°	3	362	795	1099	1208	11
95°	3	282	672	963	1062	2
105°	6	202	518	752	837	6
115°	6	174	402	598	675	6
125°	8	148	339	490	552	8
135°	8	114	282	399	447	7
145°	11	83	196	305	342	6
155°	11	54	120	194	225	5
165°	14	34	63	85	114	4
175°	14	14	17	17	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4653.9	4653.9	4653.9	4653.9	4653.9
2.5°	4688.1	4676.7	4625.4	4653.9	4639.7
5°	4671.0	4662.5	4616.9	4651.1	4639.7
7.5°	4639.7	4636.8	4602.6	4642.5	4631.1
10°	4591.3	4599.8	4574.2	4628.3	4619.7
12.5°	4534.3	4551.4	4542.8	4602.6	4594.1
15°	4465.9	4485.9	4497.3	4554.2	4545.7
17.5°	4374.8	4411.8	4437.5	4483.0	4468.8
20°	4278.0	4329.2	4357.7	4380.5	4357.7
22.5°	4172.6	4240.9	4258.0	4246.6	4223.8
25°	4055.8	4138.4	4138.4	4101.4	4070.0
27.5°	3924.8	4027.3	3998.8	3956.1	3930.5
30°	3782.4	3904.8	3856.4	3808.0	3802.3
32.5°	3640.0	3768.1	3696.9	3685.5	3694.1
35°	3483.3	3611.5	3543.1	3571.6	3580.2
37.5°	3326.7	3454.8	3409.3	3452.0	3477.6
40°	3155.8	3292.5	3264.0	3340.9	3375.1
42.5°	2987.7	3130.1	3127.3	3227.0	3278.2
45°	2822.5	2962.1	2993.4	3115.9	3172.9
47.5°	2643.1	2785.5	2862.4	3004.8	3061.8
50°	2466.5	2620.3	2725.7	2885.2	2950.7
52.5°	2284.2	2446.6	2591.8	2768.4	2836.8
55°	2096.3	2275.7	2449.4	2646.0	2717.2
57.5°	1928.2	2110.5	2315.6	2517.8	2600.4
60°	1743.1	1945.3	2170.3	2383.9	2466.5
62.5°	1575.0	1783.0	2033.6	2258.6	2346.9
65°	1395.6	1617.8	1891.2	2139.0	2221.6
67.5°	1230.4	1458.3	1757.3	2008.0	2099.1
70°	1059.5	1301.6	1626.3	1891.2	1985.2
72.5°	882.9	1139.3	1495.3	1777.3	1874.1
75°	714.9	991.2	1372.8	1660.5	1765.9
77.5°	558.2	848.8	1261.7	1557.9	1660.5
80°	404.4	720.6	1145.0	1452.6	1557.9
82.5°	267.7	609.5	1051.0	1358.6	1469.7
85°	162.3	509.8	951.3	1264.6	1375.7
87.5°	74.1	427.2	871.5	1182.0	1290.2
90°	2.8	361.7	794.6	1099.4	1207.6
92.5°	2.8	316.1	732.0	1028.2	1133.6
95°	2.8	282.0	672.2	962.7	1062.4
97.5°	2.8	259.2	626.6	900.0	996.9
100°	2.8	236.4	581.0	843.1	942.7
102.5°	5.7	216.5	546.8	791.8	885.8
105°	5.7	202.2	518.4	751.9	837.4
107.5°	5.7	193.7	487.0	712.0	791.8
110°	5.7	185.1	452.9	672.2	751.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	179.4	427.2	638.0	714.9
115°	5.7	173.7	401.6	598.1	675.0
117.5°	5.7	170.9	387.4	566.8	640.8
120°	8.5	162.3	370.3	538.3	609.5
122.5°	8.5	153.8	353.2	515.5	578.2
125°	8.5	148.1	338.9	489.9	552.5
127.5°	8.5	139.6	324.7	467.1	524.1
130°	8.5	131.0	313.3	444.3	498.4
132.5°	8.5	122.5	299.1	421.5	472.8
135°	8.5	113.9	282.0	398.7	447.2
137.5°	8.5	105.4	264.9	376.0	421.5
140°	8.5	96.8	242.1	353.2	395.9
142.5°	8.5	88.3	219.3	330.4	367.4
145°	11.4	82.6	196.5	304.8	341.8
147.5°	11.4	74.1	173.7	279.1	310.5
150°	11.4	68.4	156.6	253.5	282.0
152.5°	11.4	59.8	139.6	225.0	253.5
155°	11.4	54.1	119.6	193.7	225.0
157.5°	11.4	48.4	102.5	162.3	196.5
160°	11.4	45.6	88.3	133.9	168.0
162.5°	14.2	39.9	74.1	108.2	139.6
165°	14.2	34.2	62.7	85.4	113.9
167.5°	14.2	28.5	51.3	65.5	88.3
170°	14.2	22.8	39.9	45.6	68.4
172.5°	14.2	17.1	28.5	31.3	34.2
175°	14.2	14.2	17.1	17.1	8.5
177.5°	14.2	14.2	11.4	8.5	2.8
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)