

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: P566072

Luminaire Tested: **4SNX-116HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566072
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: 4SNX-116HL-SLW-UNV-L840-CD
Description: 4FT 11600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

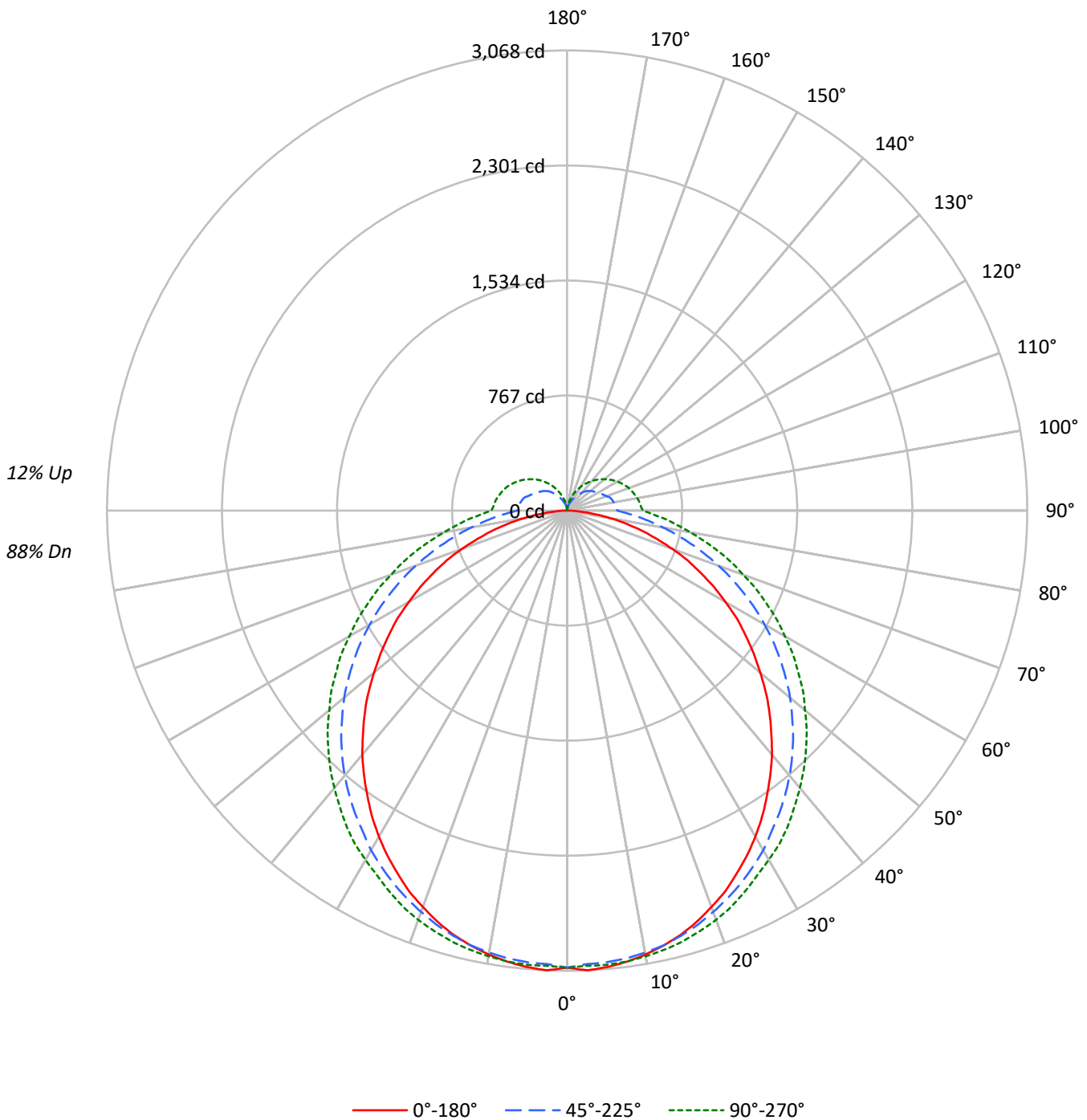
Lumens per Lamp: N/A
Luminaire Lumens: 10971.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 85.4
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°	32801	32801	32801
5°	32947	31965	31918
10°	32736	31333	31155
15°	32438	30653	30434
20°	31975	29910	29683
25°	31426	29163	28828
30°	30828	28413	28041
35°	30076	27574	27362
40°	29347	26807	26531
45°	28466	25957	25743
50°	27447	25051	24841
55°	26470	23995	23941
60°	25338	22849	22905
65°	23960	21542	21801
70°	22209	20067	20532
75°	19724	18370	19367
80°	16255	16687	17896
85°	11250	15182	16938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.3	2.6
10°-20°	832.2	7.6
20°-30°	1266.0	11.5
30°-40°	1539.3	14.0
40°-50°	1628.5	14.8
50°-60°	1526.5	13.9
60°-70°	1255.8	11.4
70°-80°	868.9	7.9
80°-90°	483.2	4.4
90°-100°	318.3	2.9
100°-110°	285.5	2.6
110°-120°	236.3	2.2
120°-130°	182.7	1.7
130°-140°	129.3	1.2
140°-150°	78.0	0.7
150°-160°	37.5	0.3
160°-170°	12.3	0.1
170°-180°	1.5	0.0
0°-30°	2387.5	21.8
0°-40°	3926.8	35.8
0°-60°	7081.8	64.6
0°-90°	9689.8	88.3
90°-120°	840.1	7.7
90°-150°	1230.0	11.2
90°-180°	1281.0	11.7
0°-180°	10971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3055	3049	3023	3047	3040	290
15°	2927	2936	2935	2974	2974	825
25°	2672	2709	2741	2801	2803	1231
35°	2322	2384	2465	2544	2566	1453
45°	1909	2008	2130	2226	2253	1471
55°	1452	1582	1734	1843	1881	1300
65°	983	1124	1298	1426	1465	974
75°	511	659	853	988	1043	542
85°	113	280	473	605	658	130
90°	2	158	334	460	505	7
95°	2	150	325	445	488	2
105°	2	130	304	419	456	2
115°	4	113	257	372	413	3
125°	4	96	220	318	357	3
135°	4	75	184	261	293	3
145°	4	54	128	197	222	2
155°	6	38	79	126	146	2
165°	6	24	43	58	75	2
175°	6	9	13	13	8	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3047.3	3047.3	3047.3	3047.3	3047.3
2.5°	3068.0	3058.6	3026.7	3047.3	3037.9
5°	3054.8	3049.2	3022.9	3047.3	3039.8
7.5°	3034.2	3032.3	3011.6	3039.8	3032.3
10°	3006.0	3009.7	2992.8	3022.9	3017.3
12.5°	2970.3	2975.9	2968.4	3002.2	2998.5
15°	2927.1	2936.5	2934.6	2974.0	2974.0
17.5°	2874.5	2887.6	2895.1	2940.2	2940.2
20°	2812.5	2833.1	2848.2	2897.0	2904.5
22.5°	2750.5	2774.9	2797.4	2848.2	2859.4
25°	2671.6	2709.1	2741.1	2801.2	2803.1
27.5°	2594.5	2635.9	2679.1	2737.3	2743.0
30°	2510.0	2562.6	2615.2	2671.6	2688.5
32.5°	2419.8	2478.1	2536.3	2611.5	2634.0
35°	2322.1	2384.1	2464.9	2543.8	2566.4
37.5°	2224.4	2293.9	2387.9	2468.7	2489.3
40°	2124.9	2201.9	2307.1	2389.8	2414.2
42.5°	2014.0	2107.9	2220.7	2309.0	2337.2
45°	1908.8	2008.4	2130.5	2226.3	2252.6
47.5°	1798.0	1903.2	2034.7	2136.1	2166.2
50°	1679.6	1799.8	1940.7	2042.2	2070.4
52.5°	1568.7	1690.9	1839.3	1944.5	1984.0
55°	1452.3	1581.9	1734.1	1843.0	1880.6
57.5°	1343.3	1467.3	1630.7	1739.7	1786.7
60°	1219.3	1356.5	1519.9	1638.3	1675.8
62.5°	1102.8	1241.8	1410.9	1533.1	1576.3
65°	982.6	1123.5	1298.2	1426.0	1465.4
67.5°	869.9	1008.9	1187.4	1313.2	1364.0
70°	745.9	892.4	1074.6	1204.3	1247.5
72.5°	623.7	775.9	961.9	1100.9	1149.8
75°	511.0	659.4	852.9	988.2	1042.7
77.5°	402.1	552.4	747.7	886.8	933.7
80°	293.1	450.9	650.0	787.2	832.3
82.5°	193.5	358.8	556.1	693.3	742.1
85°	112.7	279.9	473.4	605.0	657.6
87.5°	48.8	212.3	396.4	526.0	569.3
90°	1.9	157.8	334.4	460.3	505.4
92.5°	1.9	154.1	326.9	450.9	494.1
95°	1.9	150.3	325.0	445.3	488.5
97.5°	1.9	148.4	321.3	441.5	482.8
100°	1.9	142.8	315.6	434.0	475.3
102.5°	1.9	135.3	310.0	426.5	465.9
105°	1.9	129.6	304.4	419.0	456.5
107.5°	1.9	124.0	295.0	409.6	447.1
110°	1.9	118.4	279.9	400.2	437.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	116.5	268.7	387.0	426.5
115°	3.8	112.7	257.4	372.0	413.3
117.5°	3.8	110.8	248.0	357.0	400.2
120°	3.8	105.2	238.6	343.8	385.1
122.5°	3.8	99.6	229.2	330.7	372.0
125°	3.8	95.8	219.8	317.5	357.0
127.5°	3.8	90.2	212.3	304.4	340.1
130°	3.8	86.4	202.9	289.3	325.0
132.5°	3.8	80.8	193.5	274.3	308.1
135°	3.8	75.1	184.1	261.1	293.1
137.5°	3.8	67.6	172.8	246.1	276.2
140°	3.8	62.0	157.8	231.1	259.3
142.5°	3.8	58.2	142.8	214.2	240.5
145°	3.8	54.5	127.8	197.3	221.7
147.5°	3.8	50.7	114.6	180.4	202.9
150°	3.8	45.1	101.5	165.3	184.1
152.5°	5.6	41.3	90.2	146.5	165.3
155°	5.6	37.6	78.9	125.9	146.5
157.5°	5.6	33.8	67.6	105.2	127.8
160°	5.6	30.1	58.2	86.4	109.0
162.5°	5.6	28.2	50.7	71.4	92.1
165°	5.6	24.4	43.2	58.2	75.1
167.5°	5.6	18.8	35.7	45.1	62.0
170°	5.6	15.0	28.2	31.9	47.0
172.5°	5.6	11.3	20.7	22.5	24.4
175°	5.6	9.4	13.2	13.2	7.5
177.5°	5.6	7.5	7.5	7.5	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)