

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: P567476

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567476
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-SLW-UNV-L840-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

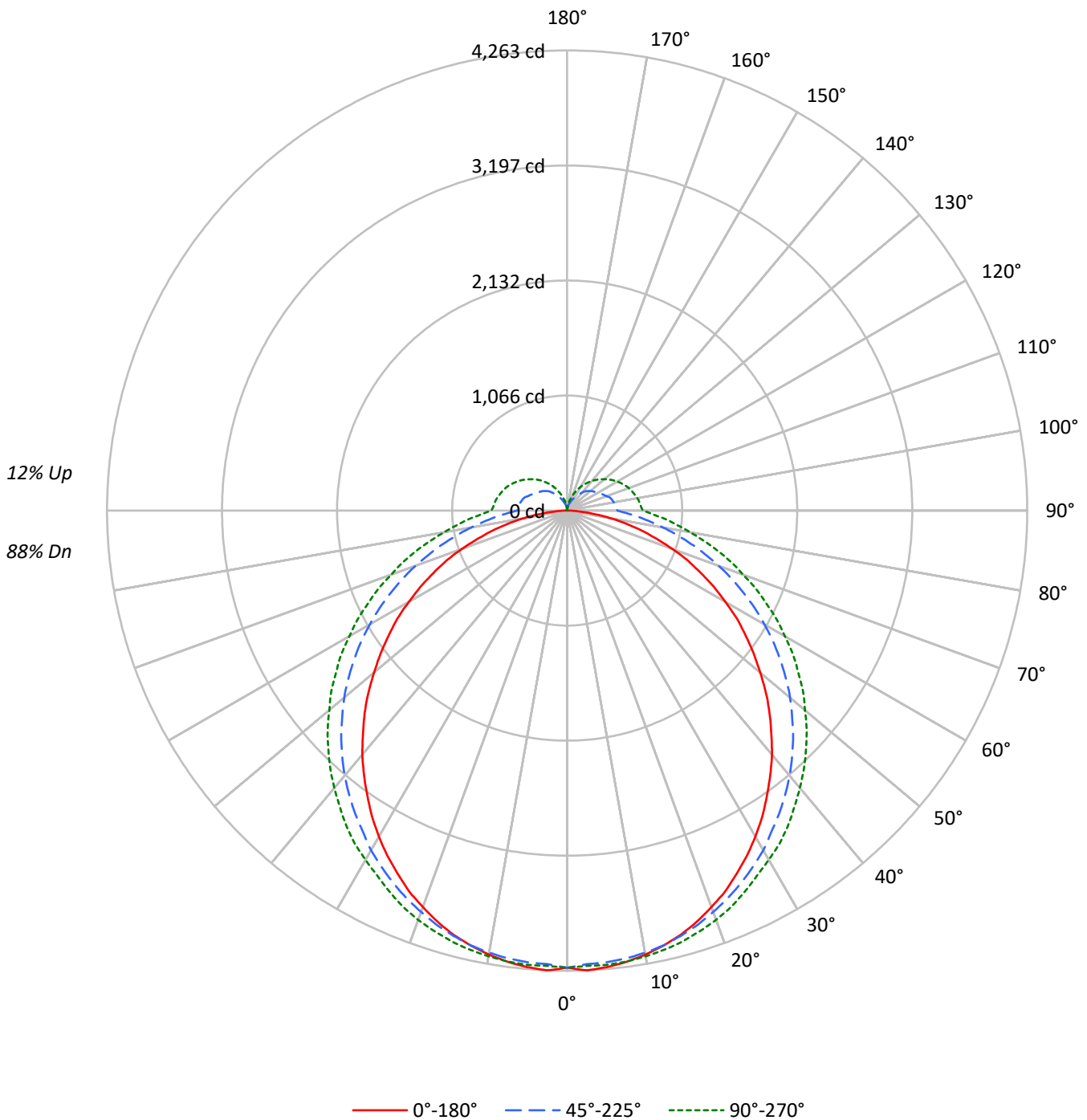
Lumens per Lamp: N/A
Luminaire Lumens: 15245.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	22790	22790	22790
5°	22912	22223	22176
10°	22786	21797	21646
15°	22600	21337	21146
20°	22299	20832	20624
25°	21939	20324	20030
30°	21546	19814	19482
35°	21048	19242	19010
40°	20565	18721	18434
45°	19981	18141	17886
50°	19303	17524	17259
55°	18659	16801	16634
60°	17915	16017	15914
65°	17010	15122	15147
70°	15857	14112	14266
75°	14216	12947	13456
80°	11922	11798	12433
85°	8645	10784	11767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	2.6
10°-20°	1156.4	7.6
20°-30°	1759.2	11.5
30°-40°	2139.0	14.0
40°-50°	2263.0	14.8
50°-60°	2121.2	13.9
60°-70°	1745.1	11.4
70°-80°	1207.4	7.9
80°-90°	671.4	4.4
90°-100°	442.3	2.9
100°-110°	396.6	2.6
110°-120°	328.3	2.2
120°-130°	253.8	1.7
130°-140°	179.7	1.2
140°-150°	108.4	0.7
150°-160°	52.0	0.3
160°-170°	17.0	0.1
170°-180°	2.1	0.0
0°-30°	3317.5	21.8
0°-40°	5456.5	35.8
0°-60°	9840.7	64.6
0°-90°	13464.7	88.3
90°-120°	1167.3	7.7
90°-150°	1709.1	11.2
90°-180°	1780.0	11.7
0°-180°	15245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4234	4234	4234	4234	4234	
5°	4245	4237	4200	4234	4224	403
15°	4067	4080	4078	4133	4133	1146
25°	3712	3765	3809	3892	3895	1711
35°	3227	3313	3425	3535	3566	2019
45°	2652	2791	2960	3094	3130	2044
55°	2018	2198	2410	2561	2613	1807
65°	1365	1561	1804	1982	2036	1354
75°	710	916	1185	1373	1449	753
85°	157	389	658	841	914	180
90°	3	219	465	640	702	10
95°	3	209	452	619	679	2
105°	3	180	423	582	634	3
115°	5	157	358	517	574	4
125°	5	133	305	441	496	5
135°	5	104	256	363	407	4
145°	5	76	178	274	308	3
155°	8	52	110	175	204	3
165°	8	34	60	81	104	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°	4234.5	4234.5	4234.5	4234.5	4234.5
2.5°	4263.2	4250.1	4205.8	4234.5	4221.4
5°	4244.9	4237.1	4200.5	4234.5	4224.0
7.5°	4216.2	4213.6	4184.9	4224.0	4213.6
10°	4177.0	4182.3	4158.8	4200.5	4192.7
12.5°	4127.4	4135.3	4124.8	4171.8	4166.6
15°	4067.4	4080.4	4077.8	4132.7	4132.7
17.5°	3994.3	4012.6	4023.0	4085.7	4085.7
20°	3908.1	3936.9	3957.7	4025.6	4036.1
22.5°	3822.0	3855.9	3887.3	3957.7	3973.4
25°	3712.3	3764.6	3808.9	3892.5	3895.1
27.5°	3605.3	3662.7	3722.8	3803.7	3811.5
30°	3487.8	3560.9	3634.0	3712.3	3735.8
32.5°	3362.5	3443.4	3524.4	3628.8	3660.1
35°	3226.8	3312.9	3425.2	3534.8	3566.1
37.5°	3091.0	3187.6	3318.1	3430.4	3459.1
40°	2952.6	3059.7	3205.9	3320.7	3354.7
42.5°	2798.6	2929.1	3085.8	3208.5	3247.6
45°	2652.4	2790.8	2960.5	3093.6	3130.2
47.5°	2498.4	2644.6	2827.3	2968.3	3010.1
50°	2333.9	2501.0	2696.8	2837.8	2876.9
52.5°	2179.9	2349.6	2555.8	2702.0	2756.8
55°	2018.0	2198.2	2409.6	2561.0	2613.3
57.5°	1866.6	2038.9	2266.0	2417.5	2482.7
60°	1694.3	1884.9	2112.0	2276.5	2328.7
62.5°	1532.5	1725.6	1960.6	2130.3	2190.3
65°	1365.4	1561.2	1804.0	1981.5	2036.3
67.5°	1208.7	1401.9	1649.9	1824.8	1895.3
70°	1036.4	1240.1	1493.3	1673.4	1733.5
72.5°	866.7	1078.2	1336.7	1529.8	1597.7
75°	710.1	916.3	1185.2	1373.2	1448.9
77.5°	558.7	767.5	1039.0	1232.2	1297.5
80°	407.3	626.6	903.3	1093.9	1156.5
82.5°	268.9	498.6	772.8	963.3	1031.2
85°	156.6	389.0	657.9	840.6	913.7
87.5°	67.9	295.0	550.8	731.0	791.0
90°	2.6	219.3	464.7	639.6	702.3
92.5°	2.6	214.1	454.3	626.6	686.6
95°	2.6	208.9	451.6	618.7	678.8
97.5°	2.6	206.2	446.4	613.5	670.9
100°	2.6	198.4	438.6	603.1	660.5
102.5°	2.6	188.0	430.8	592.6	647.4
105°	2.6	180.1	422.9	582.2	634.4
107.5°	2.6	172.3	409.9	569.1	621.3
110°	2.6	164.5	389.0	556.1	608.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	161.9	373.3	537.8	592.6
115°	5.2	156.6	357.7	516.9	574.3
117.5°	5.2	154.0	344.6	496.0	556.1
120°	5.2	146.2	331.6	477.7	535.2
122.5°	5.2	138.4	318.5	459.5	516.9
125°	5.2	133.1	305.4	441.2	496.0
127.5°	5.2	125.3	295.0	422.9	472.5
130°	5.2	120.1	282.0	402.0	451.6
132.5°	5.2	112.3	268.9	381.2	428.1
135°	5.2	104.4	255.8	362.9	407.3
137.5°	5.2	94.0	240.2	342.0	383.8
140°	5.2	86.2	219.3	321.1	360.3
142.5°	5.2	80.9	198.4	297.6	334.2
145°	5.2	75.7	177.5	274.1	308.1
147.5°	5.2	70.5	159.2	250.6	282.0
150°	5.2	62.7	141.0	229.7	255.8
152.5°	7.8	57.4	125.3	203.6	229.7
155°	7.8	52.2	109.6	174.9	203.6
157.5°	7.8	47.0	94.0	146.2	177.5
160°	7.8	41.8	80.9	120.1	151.4
162.5°	7.8	39.2	70.5	99.2	127.9
165°	7.8	33.9	60.0	80.9	104.4
167.5°	7.8	26.1	49.6	62.7	86.2
170°	7.8	20.9	39.2	44.4	65.3
172.5°	7.8	15.7	28.7	31.3	33.9
175°	7.8	13.1	18.3	18.3	10.4
177.5°	7.8	10.4	10.4	10.4	5.2
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)