

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: P567520

Luminaire Tested: **8SNX-168HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567520
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-168HL-LW-UNV-L940-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

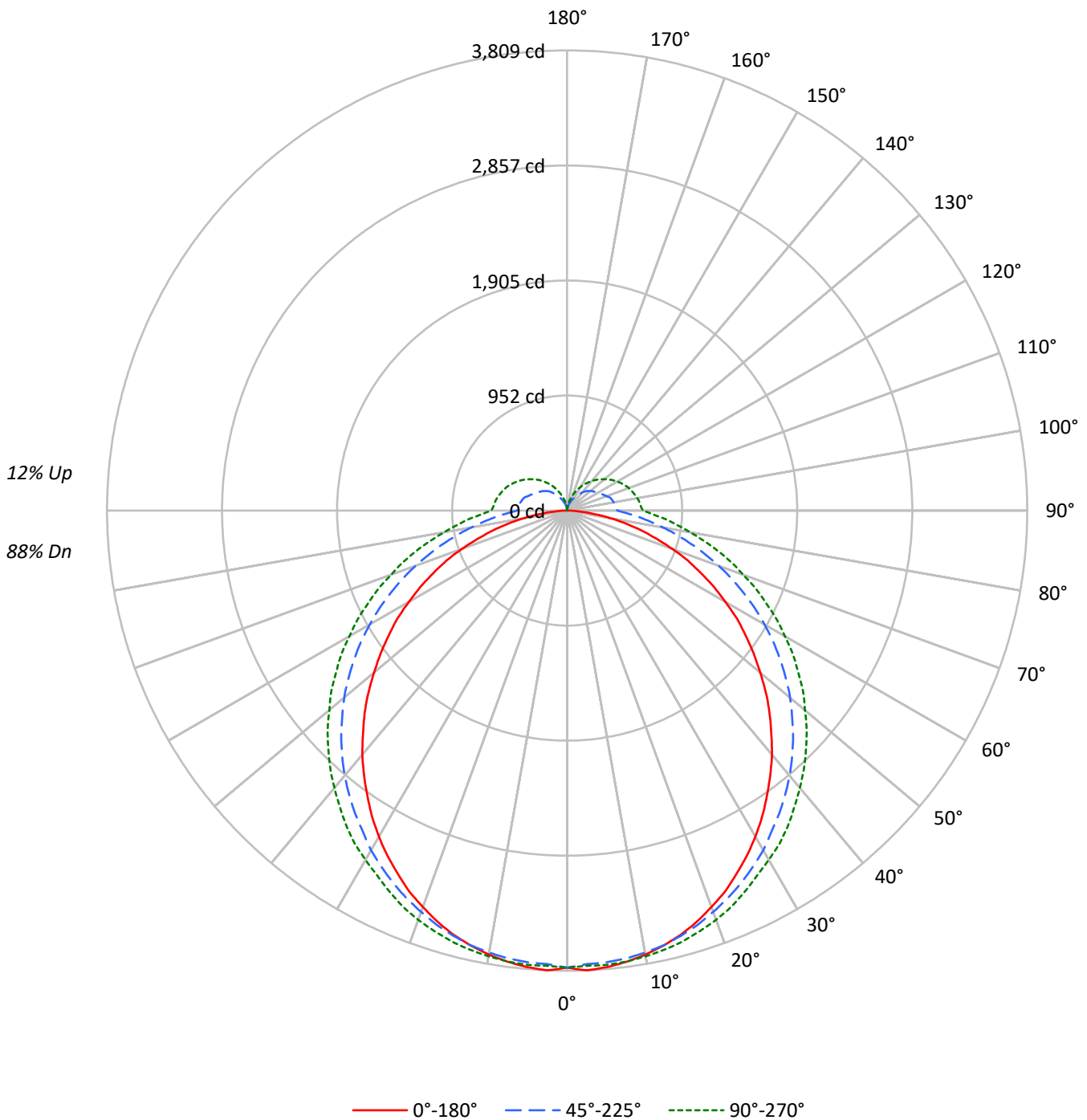
Lumens per Lamp: N/A
Luminaire Lumens: 13621.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 115.8
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°	20362	20362	20362
5°	20453	19449	19266
10°	20321	18703	18319
15°	20136	17961	17455
20°	19848	17208	16620
25°	19507	16475	15765
30°	19136	15756	14978
35°	18669	15000	14272
40°	18216	14294	13504
45°	17670	13547	12772
50°	17037	12774	11993
55°	16430	11923	11223
60°	15727	11027	10394
65°	14871	10049	9536
70°	13782	8989	8607
75°	12242	7825	7718
80°	10087	6658	6699
85°	6982	5536	5848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	2.6
10°-20°	1033.2	7.6
20°-30°	1571.8	11.5
30°-40°	1911.1	14.0
40°-50°	2021.9	14.8
50°-60°	1895.3	13.9
60°-70°	1559.2	11.4
70°-80°	1078.8	7.9
80°-90°	599.9	4.4
90°-100°	395.2	2.9
100°-110°	354.4	2.6
110°-120°	293.3	2.2
120°-130°	226.8	1.7
130°-140°	160.5	1.2
140°-150°	96.8	0.7
150°-160°	46.5	0.3
160°-170°	15.2	0.1
170°-180°	1.9	0.0
0°-30°	2964.1	21.8
0°-40°	4875.3	35.8
0°-60°	8792.4	64.6
0°-90°	12030.4	88.3
90°-120°	1042.9	7.7
90°-150°	1527.1	11.2
90°-180°	1591.0	11.7
0°-180°	13621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3783	3783	3783	3783	3783	
5°	3793	3786	3753	3783	3774	360
15°	3634	3646	3643	3692	3692	1024
25°	3317	3364	3403	3478	3480	1529
35°	2883	2960	3060	3158	3186	1804
45°	2370	2494	2645	2764	2797	1827
55°	1803	1964	2153	2288	2335	1614
65°	1220	1395	1612	1770	1819	1210
75°	634	819	1059	1227	1295	673
85°	140	348	588	751	816	161
90°	2	196	415	572	628	9
95°	2	187	404	553	606	2
105°	2	161	378	520	567	2
115°	5	140	320	462	513	4
125°	5	119	273	394	443	4
135°	5	93	229	324	364	4
145°	5	68	159	245	275	3
155°	7	47	98	156	182	3
165°	7	30	54	72	93	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3783.4	3783.4	3783.4	3783.4	3783.4
2.5°	3809.0	3797.4	3757.7	3783.4	3771.7
5°	3792.7	3785.7	3753.1	3783.4	3774.1
7.5°	3767.1	3764.7	3739.1	3774.1	3764.7
10°	3732.1	3736.7	3715.7	3753.1	3746.1
12.5°	3687.8	3694.8	3685.4	3727.4	3722.7
15°	3634.1	3645.8	3643.4	3692.4	3692.4
17.5°	3568.8	3585.1	3594.5	3650.4	3650.4
20°	3491.8	3517.5	3536.1	3596.8	3606.1
22.5°	3414.8	3445.2	3473.2	3536.1	3550.1
25°	3316.9	3363.5	3403.2	3477.8	3480.2
27.5°	3221.2	3272.6	3326.2	3398.5	3405.5
30°	3116.3	3181.6	3246.9	3316.9	3337.9
32.5°	3004.3	3076.6	3148.9	3242.2	3270.2
35°	2883.0	2960.0	3060.3	3158.3	3186.3
37.5°	2761.7	2848.0	2964.7	3065.0	3090.6
40°	2638.1	2733.7	2864.4	2967.0	2997.3
42.5°	2500.5	2617.1	2757.1	2866.7	2901.7
45°	2369.9	2493.5	2645.1	2764.1	2796.7
47.5°	2232.2	2362.9	2526.1	2652.1	2689.4
50°	2085.3	2234.6	2409.5	2535.5	2570.5
52.5°	1947.7	2099.3	2283.6	2414.2	2463.2
55°	1803.1	1964.0	2152.9	2288.2	2334.9
57.5°	1667.8	1821.7	2024.6	2159.9	2218.2
60°	1513.8	1684.1	1887.0	2034.0	2080.6
62.5°	1369.2	1541.8	1751.7	1903.4	1957.0
65°	1219.9	1394.9	1611.8	1770.4	1819.4
67.5°	1080.0	1252.6	1474.2	1630.4	1693.4
70°	926.0	1108.0	1334.2	1495.2	1548.8
72.5°	774.4	963.3	1194.3	1366.9	1427.5
75°	634.5	818.7	1059.0	1226.9	1294.6
77.5°	499.2	685.8	928.4	1101.0	1159.3
80°	363.9	559.8	807.1	977.3	1033.3
82.5°	240.3	445.5	690.4	860.7	921.4
85°	140.0	347.5	587.8	751.1	816.4
87.5°	60.6	263.6	492.2	653.1	706.8
90°	2.3	195.9	415.2	571.5	627.5
92.5°	2.3	191.3	405.9	559.8	613.5
95°	2.3	186.6	403.5	552.8	606.5
97.5°	2.3	184.3	398.9	548.1	599.5
100°	2.3	177.3	391.9	538.8	590.1
102.5°	2.3	167.9	384.9	529.5	578.5
105°	2.3	160.9	377.9	520.2	566.8
107.5°	2.3	153.9	366.2	508.5	555.1
110°	2.3	147.0	347.5	496.8	543.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	144.6	333.6	480.5	529.5
115°	4.7	140.0	319.6	461.8	513.2
117.5°	4.7	137.6	307.9	443.2	496.8
120°	4.7	130.6	296.2	426.9	478.2
122.5°	4.7	123.6	284.6	410.5	461.8
125°	4.7	119.0	272.9	394.2	443.2
127.5°	4.7	112.0	263.6	377.9	422.2
130°	4.7	107.3	251.9	359.2	403.5
132.5°	4.7	100.3	240.3	340.6	382.5
135°	4.7	93.3	228.6	324.2	363.9
137.5°	4.7	84.0	214.6	305.6	342.9
140°	4.7	77.0	195.9	286.9	321.9
142.5°	4.7	72.3	177.3	265.9	298.6
145°	4.7	67.6	158.6	244.9	275.2
147.5°	4.7	63.0	142.3	223.9	251.9
150°	4.7	56.0	126.0	205.3	228.6
152.5°	7.0	51.3	112.0	181.9	205.3
155°	7.0	46.7	98.0	156.3	181.9
157.5°	7.0	42.0	84.0	130.6	158.6
160°	7.0	37.3	72.3	107.3	135.3
162.5°	7.0	35.0	63.0	88.6	114.3
165°	7.0	30.3	53.6	72.3	93.3
167.5°	7.0	23.3	44.3	56.0	77.0
170°	7.0	18.7	35.0	39.7	58.3
172.5°	7.0	14.0	25.7	28.0	30.3
175°	7.0	11.7	16.3	16.3	9.3
177.5°	7.0	9.3	9.3	9.3	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)