

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: P565717

Luminaire Tested: **2SNX-40HL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565717
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: 2SNX-40HL-LW-UNV-L850-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

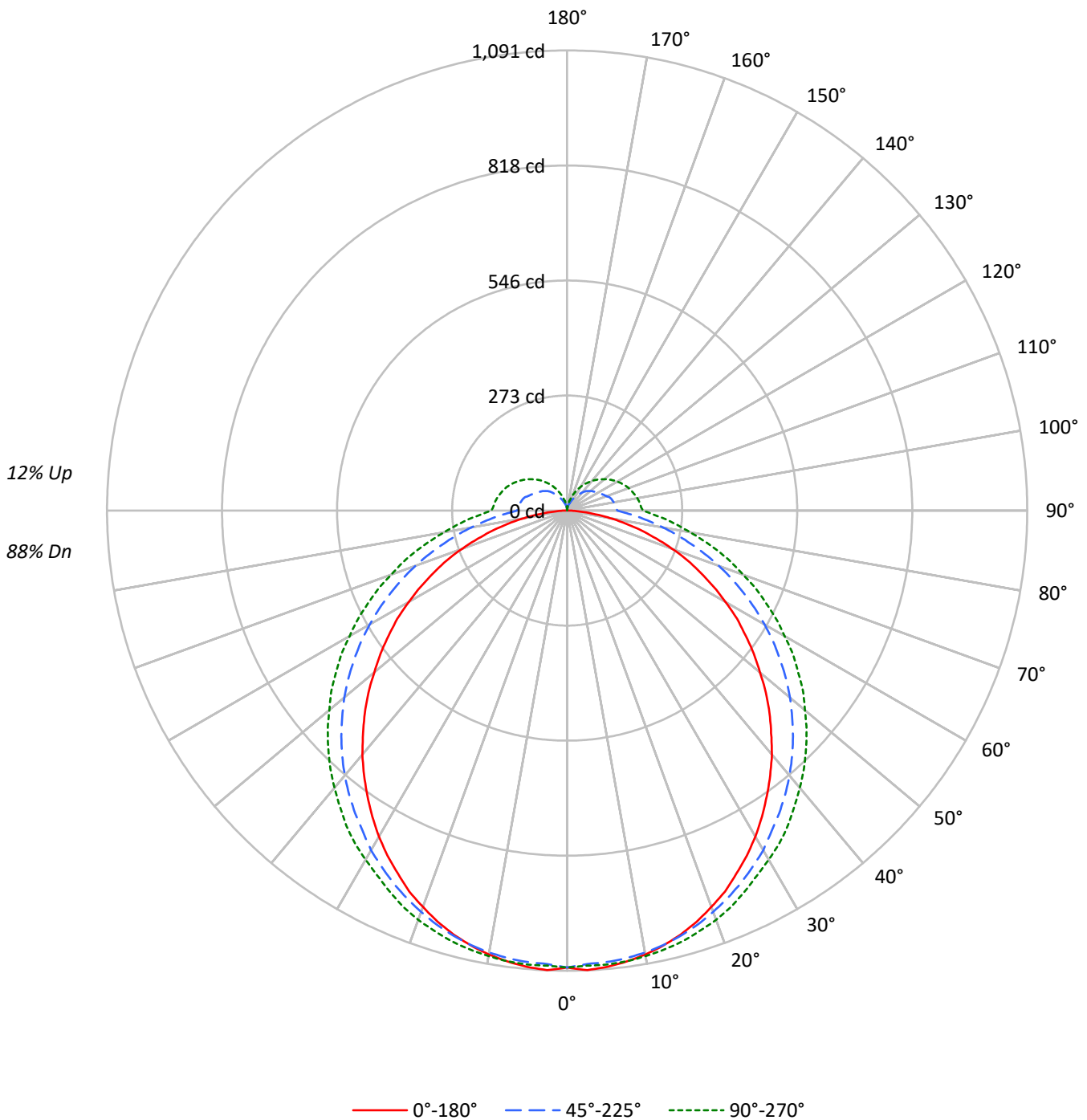
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3900.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 27.55
Input Voltage (V): NR
Input Current (A_{in}): 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°	23321	23321	23321
5°	23297	22192	22065
10°	23021	21268	20981
15°	22683	20357	19991
20°	22231	19443	19035
25°	21715	18556	18055
30°	21163	17693	17154
35°	20499	16792	16346
40°	19839	15949	15466
45°	19068	15068	14628
50°	18191	14158	13736
55°	17317	13164	12853
60°	16307	12125	11903
65°	15095	10999	10921
70°	13578	9786	9858
75°	11528	8465	8840
80°	8772	7149	7673
85°	5073	5887	6699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	2.6
10°-20°	295.8	7.6
20°-30°	450.0	11.5
30°-40°	547.2	14.0
40°-50°	578.9	14.8
50°-60°	542.7	13.9
60°-70°	446.4	11.4
70°-80°	308.9	7.9
80°-90°	171.8	4.4
90°-100°	113.2	2.9
100°-110°	101.5	2.6
110°-120°	84.0	2.2
120°-130°	64.9	1.7
130°-140°	46.0	1.2
140°-150°	27.7	0.7
150°-160°	13.3	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	848.7	21.8
0°-40°	1395.9	35.8
0°-60°	2517.5	64.6
0°-90°	3444.6	88.3
90°-120°	298.6	7.7
90°-150°	437.2	11.2
90°-180°	455.0	11.7
0°-180°	3900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1086	1084	1075	1083	1081	103
15°	1040	1044	1043	1057	1057	293
25°	950	963	974	996	996	438
35°	826	848	876	904	912	517
45°	678	714	757	791	801	523
55°	516	562	616	655	668	462
65°	349	399	462	507	521	346
75°	182	234	303	351	371	193
85°	40	100	168	215	234	46
90°	1	56	119	164	180	3
95°	1	53	116	158	174	1
105°	1	46	108	149	162	1
115°	1	40	92	132	147	1
125°	1	34	78	113	127	1
135°	1	27	66	93	104	1
145°	1	19	45	70	79	1
155°	2	13	28	45	52	1
165°	2	9	15	21	27	1
175°	2	3	5	5	3	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.3	1083.3	1083.3	1083.3	1083.3
2.5°	1090.6	1087.3	1075.9	1083.3	1079.9
5°	1085.9	1083.9	1074.6	1083.3	1080.6
7.5°	1078.6	1077.9	1070.6	1080.6	1077.9
10°	1068.6	1069.9	1063.9	1074.6	1072.6
12.5°	1055.9	1057.9	1055.2	1067.2	1065.9
15°	1040.5	1043.9	1043.2	1057.2	1057.2
17.5°	1021.8	1026.5	1029.2	1045.2	1045.2
20°	999.8	1007.1	1012.5	1029.8	1032.5
22.5°	977.7	986.4	994.4	1012.5	1016.5
25°	949.7	963.1	974.4	995.8	996.4
27.5°	922.3	937.0	952.4	973.1	975.1
30°	892.3	911.0	929.7	949.7	955.7
32.5°	860.2	880.9	901.6	928.3	936.3
35°	825.5	847.5	876.2	904.3	912.3
37.5°	790.7	815.5	848.9	877.6	884.9
40°	755.3	782.7	820.1	849.5	858.2
42.5°	715.9	749.3	789.4	820.8	830.8
45°	678.5	713.9	757.4	791.4	800.8
47.5°	639.1	676.5	723.3	759.4	770.0
50°	597.1	639.8	689.9	726.0	736.0
52.5°	557.7	601.1	653.8	691.2	705.3
55°	516.3	562.3	616.4	655.2	668.5
57.5°	477.5	521.6	579.7	618.4	635.1
60°	433.4	482.2	540.3	582.4	595.7
62.5°	392.0	441.5	501.6	545.0	560.3
65°	349.3	399.4	461.5	506.9	520.9
67.5°	309.2	358.6	422.1	466.8	484.9
70°	265.1	317.2	382.0	428.1	443.5
72.5°	221.7	275.8	341.9	391.4	408.7
75°	181.7	234.4	303.2	351.3	370.7
77.5°	142.9	196.4	265.8	315.2	331.9
80°	104.2	160.3	231.1	279.8	295.9
82.5°	68.8	127.6	197.7	246.4	263.8
85°	40.1	99.5	168.3	215.1	233.8
87.5°	17.4	75.5	140.9	187.0	202.4
90°	0.7	56.1	118.9	163.6	179.7
92.5°	0.7	54.8	116.2	160.3	175.6
95°	0.7	53.4	115.5	158.3	173.6
97.5°	0.7	52.8	114.2	156.9	171.6
100°	0.7	50.8	112.2	154.3	169.0
102.5°	0.7	48.1	110.2	151.6	165.6
105°	0.7	46.1	108.2	148.9	162.3
107.5°	0.7	44.1	104.9	145.6	159.0
110°	0.7	42.1	99.5	142.3	155.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	41.4	95.5	137.6	151.6
115°	1.3	40.1	91.5	132.2	146.9
117.5°	1.3	39.4	88.2	126.9	142.3
120°	1.3	37.4	84.8	122.2	136.9
122.5°	1.3	35.4	81.5	117.5	132.2
125°	1.3	34.1	78.1	112.9	126.9
127.5°	1.3	32.1	75.5	108.2	120.9
130°	1.3	30.7	72.1	102.9	115.5
132.5°	1.3	28.7	68.8	97.5	109.5
135°	1.3	26.7	65.5	92.8	104.2
137.5°	1.3	24.0	61.4	87.5	98.2
140°	1.3	22.0	56.1	82.1	92.2
142.5°	1.3	20.7	50.8	76.1	85.5
145°	1.3	19.4	45.4	70.1	78.8
147.5°	1.3	18.0	40.7	64.1	72.1
150°	1.3	16.0	36.1	58.8	65.5
152.5°	2.0	14.7	32.1	52.1	58.8
155°	2.0	13.4	28.1	44.7	52.1
157.5°	2.0	12.0	24.0	37.4	45.4
160°	2.0	10.7	20.7	30.7	38.7
162.5°	2.0	10.0	18.0	25.4	32.7
165°	2.0	8.7	15.4	20.7	26.7
167.5°	2.0	6.7	12.7	16.0	22.0
170°	2.0	5.3	10.0	11.4	16.7
172.5°	2.0	4.0	7.3	8.0	8.7
175°	2.0	3.3	4.7	4.7	2.7
177.5°	2.0	2.7	2.7	2.7	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)