

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: P565819

Luminaire Tested: **2SNX-47HL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565819
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-47HL-SLW-UNV-L835-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

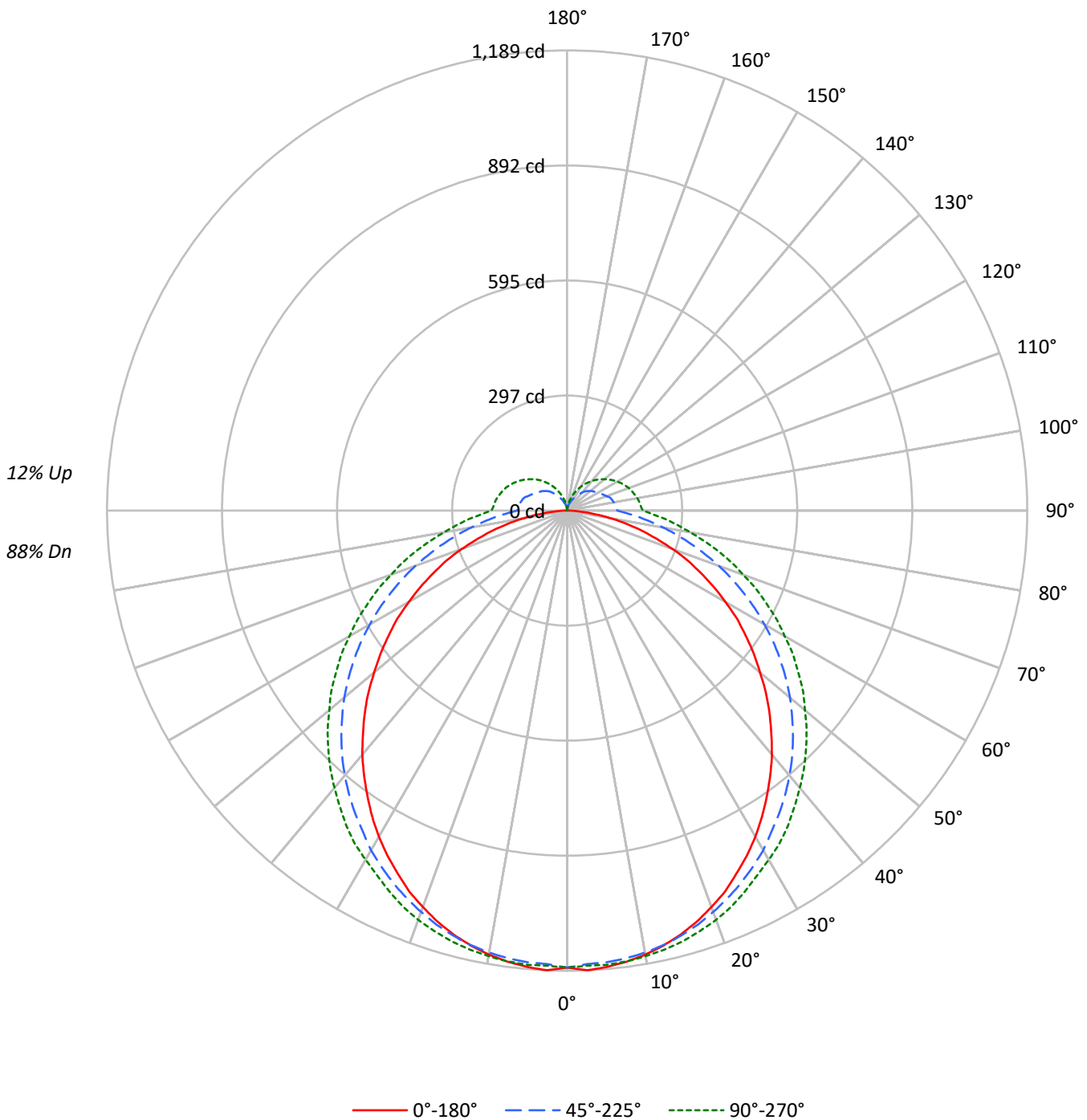
Lumens per Lamp: N/A
Luminaire Lumens: 4251.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 33.7
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°	25420	25420	25420
5°	25487	24740	24736
10°	25275	24223	24143
15°	25000	23668	23586
20°	24595	23066	23003
25°	24123	22462	22340
30°	23611	21856	21730
35°	22980	21183	21204
40°	22358	20564	20560
45°	21620	19882	19949
50°	20769	19156	19250
55°	19938	18311	18553
60°	18980	17397	17749
65°	17808	16358	16895
70°	16329	15188	15912
75°	14260	13844	15008
80°	11400	12503	13869
85°	7321	11272	13126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	2.6
10°-20°	322.5	7.6
20°-30°	490.5	11.5
30°-40°	596.4	14.0
40°-50°	631.0	14.8
50°-60°	591.5	13.9
60°-70°	486.6	11.4
70°-80°	336.7	7.9
80°-90°	187.2	4.4
90°-100°	123.3	2.9
100°-110°	110.6	2.6
110°-120°	91.6	2.2
120°-130°	70.8	1.7
130°-140°	50.1	1.2
140°-150°	30.2	0.7
150°-160°	14.5	0.3
160°-170°	4.8	0.1
170°-180°	0.6	0.0
0°-30°	925.1	21.8
0°-40°	1521.5	35.8
0°-60°	2744.0	64.6
0°-90°	3754.5	88.3
90°-120°	325.5	7.7
90°-150°	476.6	11.2
90°-180°	496.0	11.7
0°-180°	4251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1182	1171	1181	1178	112
15°	1134	1138	1137	1152	1152	320
25°	1035	1050	1062	1085	1086	477
35°	900	924	955	986	994	563
45°	740	778	826	863	873	570
55°	563	613	672	714	729	504
65°	381	435	503	552	568	377
75°	198	256	330	383	404	210
85°	44	108	183	234	255	50
90°	1	61	130	178	196	3
95°	1	58	126	172	189	1
105°	1	50	118	162	177	1
115°	2	44	100	144	160	1
125°	2	37	85	123	138	1
135°	2	29	71	101	114	1
145°	2	21	50	76	86	1
155°	2	15	31	49	57	1
165°	2	10	17	23	29	1
175°	2	4	5	5	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.8	1180.8	1180.8	1180.8	1180.8
2.5°	1188.8	1185.1	1172.8	1180.8	1177.1
5°	1183.7	1181.5	1171.3	1180.8	1177.9
7.5°	1175.7	1174.9	1166.9	1177.9	1174.9
10°	1164.7	1166.2	1159.7	1171.3	1169.1
12.5°	1150.9	1153.1	1150.2	1163.3	1161.8
15°	1134.2	1137.8	1137.1	1152.4	1152.4
17.5°	1113.8	1118.9	1121.8	1139.3	1139.3
20°	1089.8	1097.8	1103.6	1122.5	1125.4
22.5°	1065.7	1075.2	1083.9	1103.6	1108.0
25°	1035.2	1049.7	1062.1	1085.4	1086.1
27.5°	1005.3	1021.3	1038.1	1060.6	1062.8
30°	972.6	992.9	1013.3	1035.2	1041.7
32.5°	937.6	960.2	982.8	1011.9	1020.6
35°	899.8	923.8	955.1	985.7	994.4
37.5°	861.9	888.8	925.2	956.5	964.6
40°	823.3	853.2	893.9	926.0	935.4
42.5°	780.4	816.8	860.5	894.7	905.6
45°	739.6	778.2	825.5	862.6	872.8
47.5°	696.7	737.4	788.4	827.7	839.3
50°	650.8	697.4	752.0	791.3	802.2
52.5°	607.9	655.2	712.7	753.4	768.7
55°	562.7	612.9	671.9	714.1	728.7
57.5°	520.5	568.5	631.9	674.1	692.3
60°	472.5	525.6	588.9	634.8	649.3
62.5°	427.3	481.2	546.7	594.0	610.8
65°	380.7	435.3	503.0	552.5	567.8
67.5°	337.0	390.9	460.1	508.8	528.5
70°	289.0	345.8	416.4	466.6	483.4
72.5°	241.7	300.7	372.7	426.6	445.5
75°	198.0	255.5	330.5	382.9	404.0
77.5°	155.8	214.0	289.7	343.6	361.8
80°	113.6	174.7	251.9	305.0	322.5
82.5°	75.0	139.0	215.5	268.6	287.5
85°	43.7	108.5	183.4	234.4	254.8
87.5°	18.9	82.3	153.6	203.8	220.6
90°	0.7	61.1	129.6	178.4	195.8
92.5°	0.7	59.7	126.7	174.7	191.5
95°	0.7	58.2	125.9	172.5	189.3
97.5°	0.7	57.5	124.5	171.1	187.1
100°	0.7	55.3	122.3	168.2	184.2
102.5°	0.7	52.4	120.1	165.2	180.5
105°	0.7	50.2	117.9	162.3	176.9
107.5°	0.7	48.0	114.3	158.7	173.3
110°	0.7	45.9	108.5	155.1	169.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	45.1	104.1	150.0	165.2
115°	1.5	43.7	99.7	144.1	160.2
117.5°	1.5	43.0	96.1	138.3	155.1
120°	1.5	40.8	92.5	133.2	149.2
122.5°	1.5	38.6	88.8	128.1	144.1
125°	1.5	37.1	85.2	123.0	138.3
127.5°	1.5	34.9	82.3	117.9	131.8
130°	1.5	33.5	78.6	112.1	125.9
132.5°	1.5	31.3	75.0	106.3	119.4
135°	1.5	29.1	71.3	101.2	113.6
137.5°	1.5	26.2	67.0	95.4	107.0
140°	1.5	24.0	61.1	89.5	100.5
142.5°	1.5	22.6	55.3	83.0	93.2
145°	1.5	21.1	49.5	76.4	85.9
147.5°	1.5	19.7	44.4	69.9	78.6
150°	1.5	17.5	39.3	64.1	71.3
152.5°	2.2	16.0	34.9	56.8	64.1
155°	2.2	14.6	30.6	48.8	56.8
157.5°	2.2	13.1	26.2	40.8	49.5
160°	2.2	11.6	22.6	33.5	42.2
162.5°	2.2	10.9	19.7	27.7	35.7
165°	2.2	9.5	16.7	22.6	29.1
167.5°	2.2	7.3	13.8	17.5	24.0
170°	2.2	5.8	10.9	12.4	18.2
172.5°	2.2	4.4	8.0	8.7	9.5
175°	2.2	3.6	5.1	5.1	2.9
177.5°	2.2	2.9	2.9	2.9	1.5
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)