

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: P566497

Luminaire Tested: **4SNX-48SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

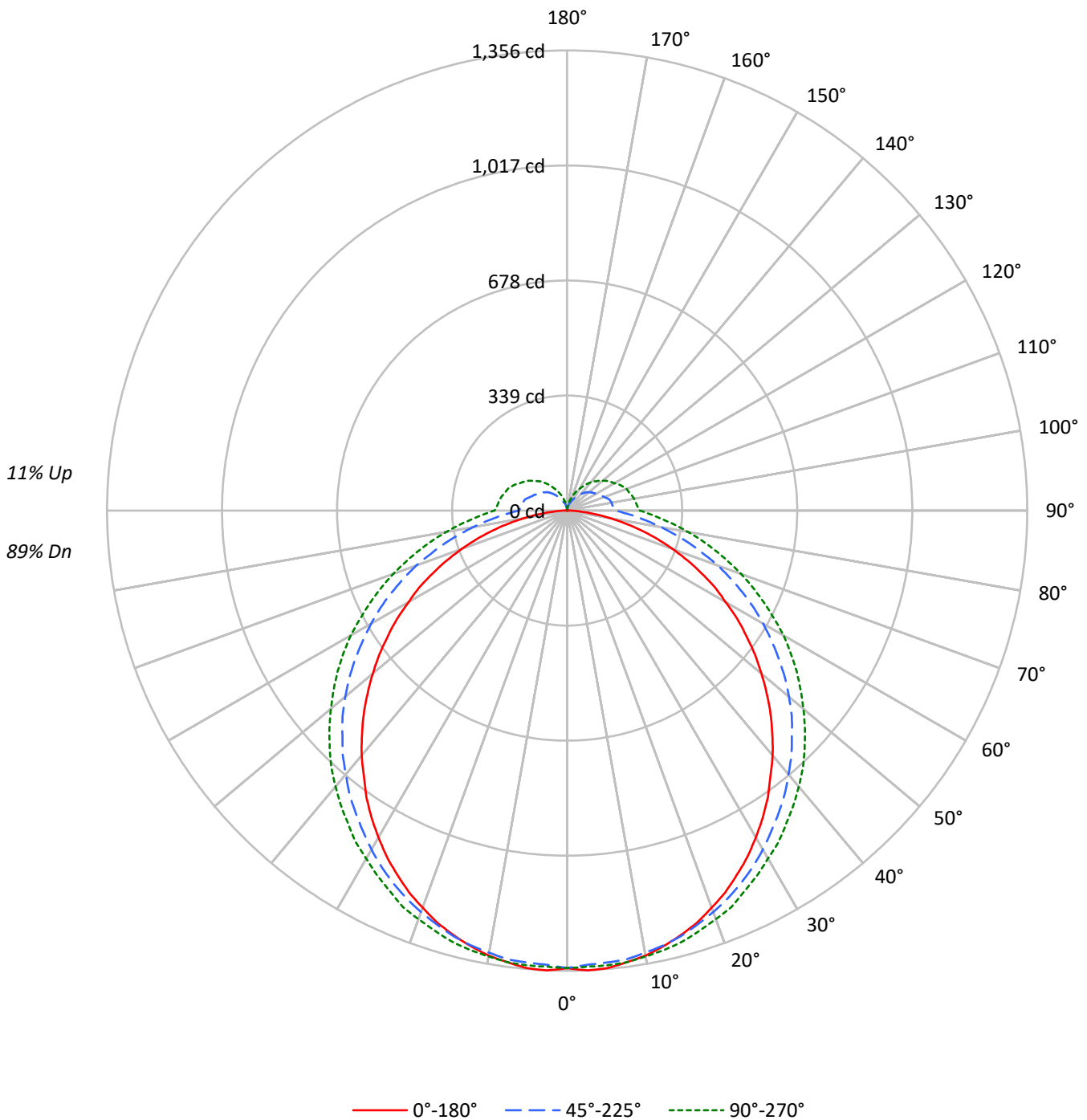
Test Method: LM-79-08  
Report Number: P566497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-48SL-LW-UNV-L850-CD  
Description: 4FT 4800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4799.0 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 32.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14511	14511	14511
5°	14573	13839	13735
10°	14446	13287	13049
15°	14274	12753	12430
20°	14050	12199	11811
25°	13795	11668	11206
30°	13494	11121	10627
35°	13166	10573	10084
40°	12792	10037	9567
45°	12388	9500	9038
50°	11928	8948	8481
55°	11421	8332	7936
60°	10826	7690	7359
65°	10203	6997	6702
70°	9341	6258	6055
75°	8203	5399	5369
80°	6413	4530	4684
85°	4183	3726	3981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.0	2.7
10°-20°	368.0	7.7
20°-30°	559.6	11.7
30°-40°	679.3	14.2
40°-50°	717.8	15.0
50°-60°	671.7	14.0
60°-70°	551.1	11.5
70°-80°	379.1	7.9
80°-90°	207.6	4.3
90°-100°	133.7	2.8
100°-110°	120.0	2.5
110°-120°	99.3	2.1
120°-130°	76.5	1.6
130°-140°	53.7	1.1
140°-150°	32.4	0.7
150°-160°	15.5	0.3
160°-170°	5.1	0.1
170°-180°	0.6	0.0
0°-30°	1055.7	22.0
0°-40°	1735.0	36.2
0°-60°	3124.5	65.1
0°-90°	4262.3	88.8
90°-120°	352.9	7.4
90°-150°	515.5	10.7
90°-180°	537.0	11.2
0°-180°	4799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1354	1351	1337	1348	1345	128
15°	1295	1301	1298	1315	1315	365
25°	1184	1198	1212	1237	1237	546
35°	1031	1056	1087	1117	1126	644
45°	848	887	937	978	990	653
55°	645	698	762	809	826	577
65°	436	495	570	623	639	432
75°	228	289	372	431	450	240
85°	50	120	203	258	278	58
90°	0	67	142	195	214	3
95°	0	64	136	186	206	0
105°	0	53	128	175	192	2
115°	3	47	108	156	175	3
125°	3	39	92	133	150	3
135°	3	31	75	108	122	2
145°	3	22	53	83	92	2
155°	3	14	33	53	61	1
165°	3	8	17	25	31	1
175°	3	3	6	6	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1356.4	1353.6	1339.7	1350.8	1345.3
5°	1353.6	1350.8	1336.9	1348.1	1345.3
7.5°	1342.5	1342.5	1334.2	1345.3	1342.5
10°	1331.4	1331.4	1323.0	1336.9	1334.2
12.5°	1314.7	1317.5	1311.9	1328.6	1325.8
15°	1295.2	1300.8	1298.0	1314.7	1314.7
17.5°	1273.0	1278.6	1278.6	1298.0	1298.0
20°	1245.2	1253.5	1259.1	1281.3	1281.3
22.5°	1217.4	1228.5	1236.9	1256.3	1264.7
25°	1184.1	1198.0	1211.9	1236.9	1236.9
27.5°	1150.7	1167.4	1184.1	1209.1	1211.9
30°	1111.8	1131.3	1153.5	1178.5	1184.1
32.5°	1072.9	1097.9	1120.1	1150.7	1159.0
35°	1031.2	1056.2	1086.8	1117.4	1125.7
37.5°	983.9	1014.5	1053.4	1086.8	1095.1
40°	942.2	975.6	1014.5	1053.4	1061.8
42.5°	895.0	931.1	978.4	1014.5	1028.4
45°	847.7	886.7	936.7	978.4	989.5
47.5°	797.7	842.2	897.8	936.7	950.6
50°	747.7	794.9	853.3	897.8	908.9
52.5°	697.7	747.7	808.8	853.3	867.2
55°	644.8	697.7	761.6	808.8	825.5
57.5°	594.8	647.6	714.3	764.4	781.0
60°	539.2	600.4	667.1	717.1	736.6
62.5°	492.0	547.6	619.8	669.9	686.5
65°	436.4	494.7	569.8	622.6	639.3
67.5°	383.6	444.7	519.8	575.4	592.0
70°	330.8	391.9	472.5	525.3	544.8
72.5°	277.9	341.9	419.7	478.1	497.5
75°	227.9	289.1	372.5	430.8	450.3
77.5°	175.1	241.8	325.2	383.6	405.8
80°	127.9	197.3	280.7	339.1	361.3
82.5°	86.2	155.7	239.0	297.4	319.6
85°	50.0	119.5	202.9	258.5	277.9
87.5°	25.0	91.7	169.5	225.1	244.6
90°	0.0	66.7	141.8	194.6	214.0
92.5°	0.0	63.9	139.0	189.0	208.5
95°	0.0	63.9	136.2	186.2	205.7
97.5°	0.0	61.1	133.4	186.2	202.9
100°	0.0	58.4	133.4	183.4	200.1
102.5°	0.0	55.6	130.6	180.7	197.3
105°	0.0	52.8	127.9	175.1	191.8
107.5°	2.8	52.8	122.3	172.3	189.0
110°	2.8	50.0	116.7	169.5	186.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	47.3	111.2	164.0	180.7
115°	2.8	47.3	108.4	155.7	175.1
117.5°	2.8	44.5	102.8	150.1	169.5
120°	2.8	44.5	100.1	144.5	161.2
122.5°	2.8	41.7	94.5	139.0	155.7
125°	2.8	38.9	91.7	133.4	150.1
127.5°	2.8	36.1	88.9	127.9	144.5
130°	2.8	33.4	83.4	122.3	136.2
132.5°	2.8	33.4	80.6	114.0	130.6
135°	2.8	30.6	75.0	108.4	122.3
137.5°	2.8	27.8	69.5	102.8	116.7
140°	2.8	25.0	63.9	97.3	108.4
142.5°	2.8	25.0	58.4	88.9	100.1
145°	2.8	22.2	52.8	83.4	91.7
147.5°	2.8	19.5	47.3	75.0	83.4
150°	2.8	19.5	41.7	66.7	75.0
152.5°	2.8	16.7	36.1	61.1	69.5
155°	2.8	13.9	33.4	52.8	61.1
157.5°	2.8	13.9	27.8	44.5	52.8
160°	2.8	11.1	25.0	36.1	44.5
162.5°	2.8	11.1	22.2	30.6	38.9
165°	2.8	8.3	16.7	25.0	30.6
167.5°	2.8	8.3	13.9	19.5	25.0
170°	2.8	5.6	11.1	13.9	19.5
172.5°	2.8	5.6	8.3	8.3	8.3
175°	2.8	2.8	5.6	5.6	2.8
177.5°	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)