

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: P565793

Luminaire Tested: **2SNX-47HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565793
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-FDL-UNV-L950-CD
Description: 2FT 4700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

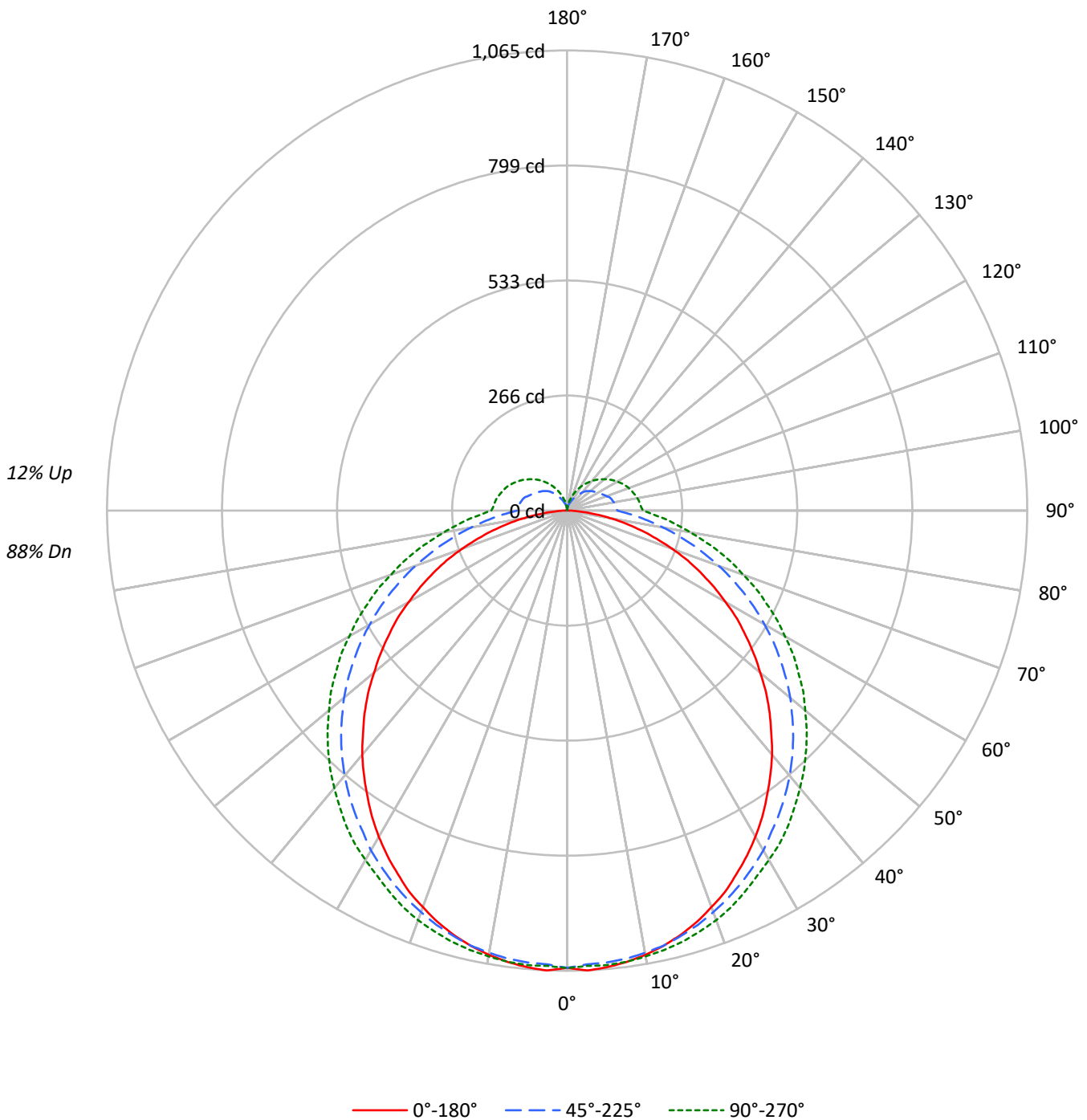
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 33.7
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	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°	22783	22783	22783
5°	22884	22426	22486
10°	22736	22200	22251
15°	22529	21934	22034
20°	22207	21617	21787
25°	21826	21294	21456
30°	21411	20971	21173
35°	20888	20585	20974
40°	20381	20262	20670
45°	19770	19889	20415
50°	19062	19493	20090
55°	18381	19004	19800
60°	17595	18481	19445
65°	16637	17880	19097
70°	15420	17218	18703
75°	13699	16482	18569
80°	11287	15972	18419
85°	7800	16143	19420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	2.6
10°-20°	289.0	7.6
20°-30°	439.6	11.5
30°-40°	534.6	14.0
40°-50°	565.6	14.8
50°-60°	530.1	13.9
60°-70°	436.1	11.4
70°-80°	301.8	7.9
80°-90°	167.8	4.4
90°-100°	110.5	2.9
100°-110°	99.1	2.6
110°-120°	82.1	2.2
120°-130°	63.4	1.7
130°-140°	44.9	1.2
140°-150°	27.1	0.7
150°-160°	13.0	0.3
160°-170°	4.3	0.1
170°-180°	0.5	0.0
0°-30°	829.1	21.8
0°-40°	1363.7	35.8
0°-60°	2459.4	64.6
0°-90°	3365.1	88.3
90°-120°	291.7	7.7
90°-150°	427.2	11.2
90°-180°	445.0	11.7
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1061	1059	1050	1058	1056	101
15°	1016	1020	1019	1033	1033	287
25°	928	941	952	973	974	428
35°	806	828	856	883	891	505
45°	663	698	740	773	782	511
55°	504	549	602	640	653	451
65°	341	390	451	495	509	338
75°	178	229	296	343	362	188
85°	39	97	164	210	228	45
90°	1	55	116	160	176	3
95°	1	52	113	155	170	1
105°	1	45	106	146	158	1
115°	1	39	89	129	144	1
125°	1	33	76	110	124	1
135°	1	26	64	91	102	1
145°	1	19	44	68	77	1
155°	2	13	27	44	51	1
165°	2	8	15	20	26	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°	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1065.4	1062.2	1051.1	1058.3	1055.0
5°	1060.9	1058.9	1049.8	1058.3	1055.7
7.5°	1053.7	1053.1	1045.9	1055.7	1053.1
10°	1043.9	1045.2	1039.3	1049.8	1047.8
12.5°	1031.5	1033.5	1030.9	1042.6	1041.3
15°	1016.5	1019.8	1019.1	1032.8	1032.8
17.5°	998.2	1002.8	1005.4	1021.1	1021.1
20°	976.7	983.9	989.1	1006.1	1008.7
22.5°	955.2	963.7	971.5	989.1	993.0
25°	927.8	940.8	951.9	972.8	973.5
27.5°	901.0	915.4	930.4	950.6	952.6
30°	871.7	889.9	908.2	927.8	933.7
32.5°	840.4	860.6	880.8	906.9	914.7
35°	806.4	828.0	856.0	883.4	891.2
37.5°	772.5	796.6	829.3	857.3	864.5
40°	737.9	764.7	801.2	829.9	838.4
42.5°	699.4	732.0	771.2	801.9	811.6
45°	662.9	697.5	739.9	773.2	782.3
47.5°	624.4	660.9	706.6	741.8	752.3
50°	583.3	625.0	674.0	709.2	719.0
52.5°	544.8	587.2	638.7	675.3	689.0
55°	504.3	549.4	602.2	640.1	653.1
57.5°	466.5	509.6	566.3	604.2	620.5
60°	423.4	471.1	527.8	568.9	582.0
62.5°	383.0	431.3	490.0	532.4	547.4
65°	341.2	390.2	450.8	495.2	508.9
67.5°	302.1	350.4	412.3	456.1	473.7
70°	259.0	309.9	373.2	418.2	433.2
72.5°	216.6	269.5	334.1	382.3	399.3
75°	177.5	229.0	296.2	343.2	362.1
77.5°	139.6	191.8	259.7	308.0	324.3
80°	101.8	156.6	225.7	273.4	289.0
82.5°	67.2	124.6	193.1	240.8	257.7
85°	39.1	97.2	164.4	210.1	228.4
87.5°	17.0	73.7	137.7	182.7	197.7
90°	0.7	54.8	116.1	159.8	175.5
92.5°	0.7	53.5	113.5	156.6	171.6
95°	0.7	52.2	112.9	154.6	169.6
97.5°	0.7	51.5	111.6	153.3	167.7
100°	0.7	49.6	109.6	150.7	165.1
102.5°	0.7	47.0	107.7	148.1	161.8
105°	0.7	45.0	105.7	145.5	158.5
107.5°	0.7	43.1	102.4	142.2	155.3
110°	0.7	41.1	97.2	139.0	152.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.5	93.3	134.4	148.1
115°	1.3	39.1	89.4	129.2	143.5
117.5°	1.3	38.5	86.1	124.0	139.0
120°	1.3	36.5	82.9	119.4	133.8
122.5°	1.3	34.6	79.6	114.8	129.2
125°	1.3	33.3	76.3	110.3	124.0
127.5°	1.3	31.3	73.7	105.7	118.1
130°	1.3	30.0	70.5	100.5	112.9
132.5°	1.3	28.1	67.2	95.3	107.0
135°	1.3	26.1	63.9	90.7	101.8
137.5°	1.3	23.5	60.0	85.5	95.9
140°	1.3	21.5	54.8	80.3	90.0
142.5°	1.3	20.2	49.6	74.4	83.5
145°	1.3	18.9	44.4	68.5	77.0
147.5°	1.3	17.6	39.8	62.6	70.5
150°	1.3	15.7	35.2	57.4	63.9
152.5°	2.0	14.4	31.3	50.9	57.4
155°	2.0	13.0	27.4	43.7	50.9
157.5°	2.0	11.7	23.5	36.5	44.4
160°	2.0	10.4	20.2	30.0	37.8
162.5°	2.0	9.8	17.6	24.8	32.0
165°	2.0	8.5	15.0	20.2	26.1
167.5°	2.0	6.5	12.4	15.7	21.5
170°	2.0	5.2	9.8	11.1	16.3
172.5°	2.0	3.9	7.2	7.8	8.5
175°	2.0	3.3	4.6	4.6	2.6
177.5°	2.0	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)