

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: P567570

Luminaire Tested: **8SNX-174HL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567570
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-174HL-SLW-UNV-L830-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

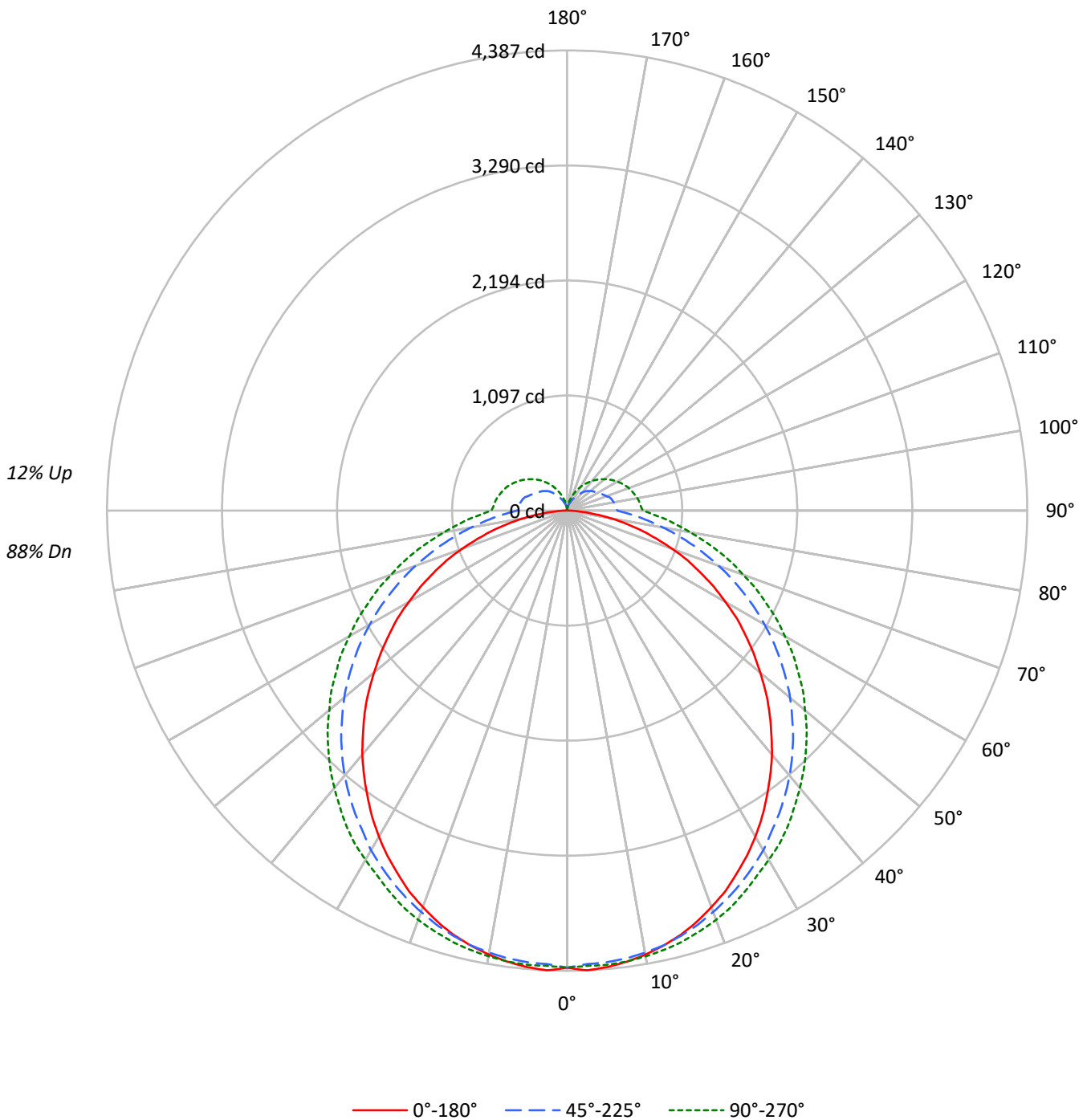
Lumens per Lamp: N/A
Luminaire Lumens: 15688.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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

TEST NUMBER: P567570

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567570

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L830-CD

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°	23452	23452	23452
5°	23578	22869	22821
10°	23448	22430	22275
15°	23257	21957	21760
20°	22947	21437	21223
25°	22576	20915	20612
30°	22172	20390	20048
35°	21659	19801	19563
40°	21162	19264	18969
45°	20562	18668	18406
50°	19863	18033	17761
55°	19201	17289	17117
60°	18436	16483	16377
65°	17503	15562	15588
70°	16317	14522	14679
75°	14628	13324	13847
80°	12268	12140	12795
85°	8899	11097	12110



TEST NUMBER: P567570

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.7	2.6
10°-20°	1190.0	7.6
20°-30°	1810.3	11.5
30°-40°	2201.1	14.0
40°-50°	2328.7	14.8
50°-60°	2182.9	13.9
60°-70°	1795.8	11.4
70°-80°	1242.5	7.9
80°-90°	690.9	4.4
90°-100°	455.2	2.9
100°-110°	408.2	2.6
110°-120°	337.9	2.2
120°-130°	261.2	1.7
130°-140°	184.9	1.2
140°-150°	111.5	0.7
150°-160°	53.6	0.3
160°-170°	17.5	0.1
170°-180°	2.1	0.0
0°-30°	3413.9	21.8
0°-40°	5615.1	35.8
0°-60°	10126.7	64.6
0°-90°	13856.0	88.3
90°-120°	1201.2	7.7
90°-150°	1758.8	11.2
90°-180°	1832.0	11.7
0°-180°	15688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4358	4358	4358	4358	4358	
5°	4368	4360	4323	4358	4347	415
15°	4186	4199	4196	4253	4253	1180
25°	3820	3874	3920	4006	4008	1761
35°	3320	3409	3525	3638	3670	2078
45°	2730	2872	3046	3184	3221	2104
55°	2077	2262	2480	2636	2689	1859
65°	1405	1606	1856	2039	2096	1393
75°	731	943	1220	1413	1491	775
85°	161	400	677	865	940	186
90°	3	226	478	658	723	11
95°	3	215	465	637	698	2
105°	3	185	435	599	653	3
115°	5	161	368	532	591	4
125°	5	137	314	454	510	5
135°	5	108	263	373	419	4
145°	5	78	183	282	317	3
155°	8	54	113	180	210	4
165°	8	35	62	83	108	2
175°	8	13	19	19	11	1
180°	5	5	5	5	5	



TEST NUMBER: P567570

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4357.5	4357.5	4357.5	4357.5	4357.5
2.5°	4387.1	4373.6	4328.0	4357.5	4344.1
5°	4368.3	4360.2	4322.6	4357.5	4346.8
7.5°	4338.7	4336.0	4306.5	4346.8	4336.0
10°	4298.4	4303.8	4279.6	4322.6	4314.5
12.5°	4247.4	4255.4	4244.7	4293.0	4287.7
15°	4185.6	4199.0	4196.3	4252.7	4252.7
17.5°	4110.4	4129.2	4139.9	4204.4	4204.4
20°	4021.7	4051.3	4072.7	4142.6	4153.3
22.5°	3933.1	3968.0	4000.2	4072.7	4088.9
25°	3820.2	3873.9	3919.6	4005.6	4008.3
27.5°	3710.1	3769.2	3831.0	3914.2	3922.3
30°	3589.2	3664.4	3739.6	3820.2	3844.4
32.5°	3460.2	3543.5	3626.8	3734.2	3766.5
35°	3320.5	3409.2	3524.7	3637.5	3669.8
37.5°	3180.8	3280.2	3414.6	3530.1	3559.6
40°	3038.4	3148.6	3299.0	3417.2	3452.2
42.5°	2879.9	3014.3	3175.5	3301.7	3342.0
45°	2729.5	2871.9	3046.5	3183.5	3221.1
47.5°	2571.0	2721.4	2909.5	3054.6	3097.5
50°	2401.7	2573.7	2775.2	2920.2	2960.5
52.5°	2243.2	2417.9	2630.1	2780.5	2837.0
55°	2076.7	2262.0	2479.6	2635.5	2689.2
57.5°	1920.9	2098.2	2331.9	2487.7	2554.9
60°	1743.5	1939.7	2173.4	2342.6	2396.4
62.5°	1577.0	1775.8	2017.6	2192.2	2254.0
65°	1405.0	1606.5	1856.4	2039.1	2095.5
67.5°	1243.9	1442.7	1697.9	1877.9	1950.4
70°	1066.5	1276.1	1536.7	1722.1	1783.8
72.5°	891.9	1109.5	1375.5	1574.3	1644.1
75°	730.7	943.0	1219.7	1413.1	1491.0
77.5°	574.9	789.8	1069.2	1268.0	1335.2
80°	419.1	644.8	929.5	1125.6	1190.1
82.5°	276.7	513.1	795.2	991.3	1061.2
85°	161.2	400.3	677.0	865.1	940.3
87.5°	69.8	303.6	566.9	752.2	814.0
90°	2.7	225.7	478.2	658.2	722.7
92.5°	2.7	220.3	467.5	644.8	706.6
95°	2.7	214.9	464.8	636.7	698.5
97.5°	2.7	212.2	459.4	631.3	690.4
100°	2.7	204.2	451.3	620.6	679.7
102.5°	2.7	193.4	443.3	609.8	666.3
105°	2.7	185.4	435.2	599.1	652.8
107.5°	2.7	177.3	421.8	585.7	639.4
110°	2.7	169.3	400.3	572.2	626.0



TEST NUMBER: P567570

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	166.6	384.2	553.4	609.8
115°	5.4	161.2	368.1	531.9	591.0
117.5°	5.4	158.5	354.6	510.4	572.2
120°	5.4	150.4	341.2	491.6	550.7
122.5°	5.4	142.4	327.8	472.8	531.9
125°	5.4	137.0	314.3	454.0	510.4
127.5°	5.4	129.0	303.6	435.2	486.3
130°	5.4	123.6	290.1	413.7	464.8
132.5°	5.4	115.5	276.7	392.2	440.6
135°	5.4	107.5	263.3	373.4	419.1
137.5°	5.4	96.7	247.2	351.9	394.9
140°	5.4	88.7	225.7	330.4	370.7
142.5°	5.4	83.3	204.2	306.3	343.9
145°	5.4	77.9	182.7	282.1	317.0
147.5°	5.4	72.5	163.9	257.9	290.1
150°	5.4	64.5	145.1	236.4	263.3
152.5°	8.1	59.1	129.0	209.5	236.4
155°	8.1	53.7	112.8	180.0	209.5
157.5°	8.1	48.4	96.7	150.4	182.7
160°	8.1	43.0	83.3	123.6	155.8
162.5°	8.1	40.3	72.5	102.1	131.6
165°	8.1	34.9	61.8	83.3	107.5
167.5°	8.1	26.9	51.0	64.5	88.7
170°	8.1	21.5	40.3	45.7	67.2
172.5°	8.1	16.1	29.6	32.2	34.9
175°	8.1	13.4	18.8	18.8	10.7
177.5°	8.1	10.7	10.7	10.7	5.4
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)