

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: P566974

Luminaire Tested: **4SNX-90HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566974
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: 4SNX-90HL-LW-UNV-L830-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

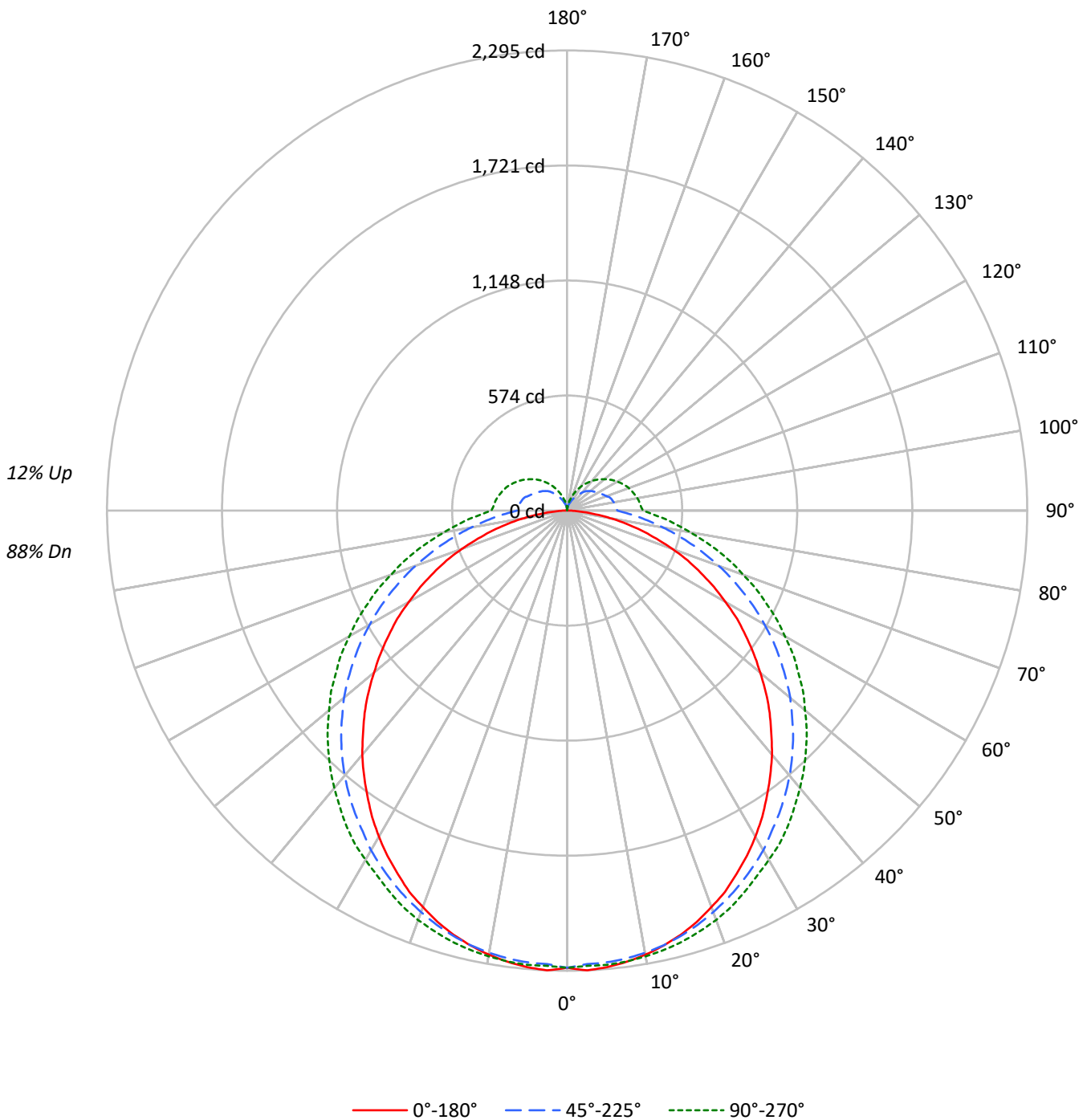
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8208.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 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): 64.4
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

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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°	24541	24541	24541
5°	24605	23411	23219
10°	24401	22487	22078
15°	24134	21571	21037
20°	23743	20645	20031
25°	23285	19745	19000
30°	22792	18864	18052
35°	22182	17940	17200
40°	21583	17077	16275
45°	20870	16166	15393
50°	20047	15226	14455
55°	19244	14194	13526
60°	18316	13108	12527
65°	17187	11927	11493
70°	15757	10649	10373
75°	13760	9249	9301
80°	10995	7849	8074
85°	7052	6505	7049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	2.6
10°-20°	622.6	7.6
20°-30°	947.1	11.5
30°-40°	1151.6	14.0
40°-50°	1218.4	14.8
50°-60°	1142.1	13.9
60°-70°	939.6	11.4
70°-80°	650.1	7.9
80°-90°	361.5	4.4
90°-100°	238.2	2.9
100°-110°	213.6	2.6
110°-120°	176.8	2.2
120°-130°	136.7	1.7
130°-140°	96.7	1.2
140°-150°	58.4	0.7
150°-160°	28.0	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1786.2	21.8
0°-40°	2937.8	35.8
0°-60°	5298.3	64.6
0°-90°	7249.5	88.3
90°-120°	628.5	7.7
90°-150°	920.2	11.2
90°-180°	959.0	11.7
0°-180°	8208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2286	2281	2262	2280	2274	217
15°	2190	2197	2196	2225	2225	617
25°	1999	2027	2051	2096	2097	921
35°	1737	1784	1844	1903	1920	1087
45°	1428	1503	1594	1666	1685	1101
55°	1086	1184	1297	1379	1407	973
65°	735	840	971	1067	1096	729
75°	382	493	638	739	780	406
85°	84	209	354	453	492	97
90°	1	118	250	344	378	6
95°	1	112	243	333	366	1
105°	1	97	228	313	342	1
115°	3	84	193	278	309	2
125°	3	72	164	238	267	3
135°	3	56	138	195	219	2
145°	3	41	96	148	166	2
155°	4	28	59	94	110	2
165°	4	18	32	44	56	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CATALOG NUMBER: 4SNX-90HL-LW-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2279.9	2279.9	2279.9	2279.9	2279.9
2.5°	2295.3	2288.3	2264.4	2279.9	2272.8
5°	2285.5	2281.3	2261.6	2279.9	2274.2
7.5°	2270.0	2268.6	2253.2	2274.2	2268.6
10°	2248.9	2251.8	2239.1	2261.6	2257.4
12.5°	2222.2	2226.5	2220.8	2246.1	2243.3
15°	2189.9	2196.9	2195.5	2225.0	2225.0
17.5°	2150.6	2160.4	2166.0	2199.7	2199.7
20°	2104.2	2119.6	2130.9	2167.4	2173.0
22.5°	2057.8	2076.1	2092.9	2130.9	2139.3
25°	1998.7	2026.9	2050.8	2095.7	2097.1
27.5°	1941.1	1972.0	2004.4	2047.9	2052.2
30°	1877.9	1917.2	1956.6	1998.7	2011.4
32.5°	1810.4	1854.0	1897.5	1953.8	1970.6
35°	1737.3	1783.7	1844.1	1903.2	1920.0
37.5°	1664.2	1716.2	1786.5	1846.9	1862.4
40°	1589.7	1647.4	1726.1	1787.9	1806.2
42.5°	1506.8	1577.1	1661.4	1727.5	1748.6
45°	1428.1	1502.6	1593.9	1665.6	1685.3
47.5°	1345.1	1423.9	1522.3	1598.2	1620.6
50°	1256.6	1346.6	1452.0	1527.9	1549.0
52.5°	1173.7	1265.0	1376.1	1454.8	1484.3
55°	1086.5	1183.5	1297.4	1378.9	1407.0
57.5°	1005.0	1097.8	1220.1	1301.6	1336.7
60°	912.2	1014.8	1137.1	1225.7	1253.8
62.5°	825.1	929.1	1055.6	1147.0	1179.3
65°	735.1	840.5	971.3	1066.8	1096.4
67.5°	650.8	754.8	888.3	982.5	1020.5
70°	558.0	667.7	804.0	901.0	933.3
72.5°	466.7	580.5	719.7	823.7	860.2
75°	382.3	493.4	638.1	739.3	780.1
77.5°	300.8	413.2	559.4	663.4	698.6
80°	219.3	337.3	486.3	588.9	622.7
82.5°	144.8	268.5	416.1	518.7	555.2
85°	84.3	209.4	354.2	452.6	492.0
87.5°	36.5	158.8	296.6	393.6	425.9
90°	1.4	118.1	250.2	344.4	378.1
92.5°	1.4	115.3	244.6	337.3	369.7
95°	1.4	112.4	243.2	333.1	365.5
97.5°	1.4	111.0	240.4	330.3	361.2
100°	1.4	106.8	236.1	324.7	355.6
102.5°	1.4	101.2	231.9	319.1	348.6
105°	1.4	97.0	227.7	313.4	341.6
107.5°	1.4	92.8	220.7	306.4	334.5
110°	1.4	88.6	209.4	299.4	327.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	87.1	201.0	289.6	319.1
115°	2.8	84.3	192.6	278.3	309.2
117.5°	2.8	82.9	185.5	267.1	299.4
120°	2.8	78.7	178.5	257.2	288.1
122.5°	2.8	74.5	171.5	247.4	278.3
125°	2.8	71.7	164.5	237.5	267.1
127.5°	2.8	67.5	158.8	227.7	254.4
130°	2.8	64.7	151.8	216.5	243.2
132.5°	2.8	60.4	144.8	205.2	230.5
135°	2.8	56.2	137.7	195.4	219.3
137.5°	2.8	50.6	129.3	184.1	206.6
140°	2.8	46.4	118.1	172.9	194.0
142.5°	2.8	43.6	106.8	160.2	179.9
145°	2.8	40.8	95.6	147.6	165.9
147.5°	2.8	38.0	85.7	134.9	151.8
150°	2.8	33.7	75.9	123.7	137.7
152.5°	4.2	30.9	67.5	109.6	123.7
155°	4.2	28.1	59.0	94.2	109.6
157.5°	4.2	25.3	50.6	78.7	95.6
160°	4.2	22.5	43.6	64.7	81.5
162.5°	4.2	21.1	38.0	53.4	68.9
165°	4.2	18.3	32.3	43.6	56.2
167.5°	4.2	14.1	26.7	33.7	46.4
170°	4.2	11.2	21.1	23.9	35.1
172.5°	4.2	8.4	15.5	16.9	18.3
175°	4.2	7.0	9.8	9.8	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)