

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: P566906

Luminaire Tested: **4SNX-87HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566906
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-87HL-FDL-UNV-L930-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

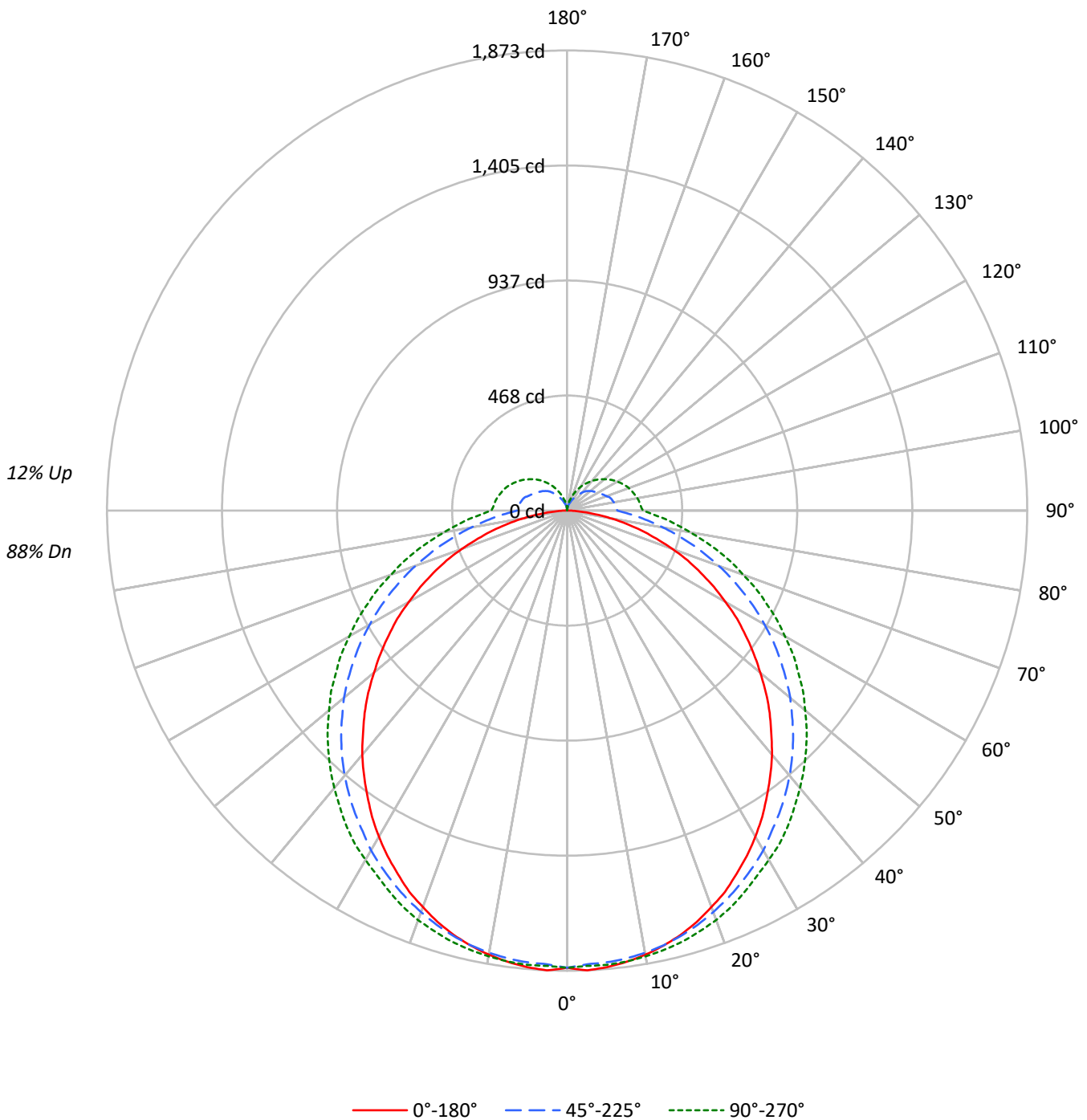
Lumens per Lamp: N/A
Luminaire Lumens: 6699.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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°	20028	20028	20028
5°	20136	19728	19767
10°	20025	19543	19562
15°	19862	19320	19372
20°	19597	19053	19153
25°	19281	18781	18862
30°	18935	18510	18613
35°	18497	18183	18439
40°	18074	17912	18172
45°	17559	17599	17947
50°	16964	17267	17662
55°	16398	16856	17406
60°	15743	16419	17095
65°	14948	15916	16789
70°	13933	15365	16443
75°	12490	14761	16325
80°	10477	14386	16194
85°	7593	14686	17069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.6
10°-20°	508.1	7.6
20°-30°	773.0	11.5
30°-40°	939.9	14.0
40°-50°	994.4	14.8
50°-60°	932.1	13.9
60°-70°	766.8	11.4
70°-80°	530.6	7.9
80°-90°	295.0	4.4
90°-100°	194.4	2.9
100°-110°	174.3	2.6
110°-120°	144.3	2.2
120°-130°	111.5	1.7
130°-140°	79.0	1.2
140°-150°	47.6	0.7
150°-160°	22.9	0.3
160°-170°	7.5	0.1
170°-180°	0.9	0.0
0°-30°	1457.8	21.8
0°-40°	2397.7	35.8
0°-60°	4324.2	64.6
0°-90°	5916.7	88.3
90°-120°	512.9	7.7
90°-150°	751.0	11.2
90°-180°	782.0	11.7
0°-180°	6699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1865	1862	1846	1861	1856	177
15°	1787	1793	1792	1816	1816	504
25°	1631	1654	1674	1710	1712	752
35°	1418	1456	1505	1553	1567	887
45°	1166	1226	1301	1359	1376	898
55°	887	966	1059	1125	1148	794
65°	600	686	793	871	895	595
75°	312	403	521	603	637	331
85°	69	171	289	369	402	79
90°	1	96	204	281	309	5
95°	1	92	198	272	298	1
105°	1	79	186	256	279	1
115°	2	69	157	227	252	2
125°	2	58	134	194	218	2
135°	2	46	112	160	179	2
145°	2	33	78	120	135	1
155°	3	23	48	77	90	2
165°	3	15	26	36	46	1
175°	3	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.7	1860.7	1860.7	1860.7	1860.7
2.5°	1873.3	1867.6	1848.1	1860.7	1855.0
5°	1865.3	1861.9	1845.8	1860.7	1856.1
7.5°	1852.7	1851.5	1838.9	1856.1	1851.5
10°	1835.5	1837.8	1827.5	1845.8	1842.4
12.5°	1813.7	1817.1	1812.5	1833.2	1830.9
15°	1787.3	1793.0	1791.9	1816.0	1816.0
17.5°	1755.2	1763.2	1767.8	1795.3	1795.3
20°	1717.3	1729.9	1739.1	1768.9	1773.5
22.5°	1679.5	1694.4	1708.1	1739.1	1746.0
25°	1631.3	1654.2	1673.7	1710.4	1711.6
27.5°	1584.3	1609.5	1635.9	1671.4	1674.9
30°	1532.6	1564.8	1596.9	1631.3	1641.6
32.5°	1477.6	1513.1	1548.7	1594.6	1608.3
35°	1417.9	1455.8	1505.1	1553.3	1567.0
37.5°	1358.3	1400.7	1458.1	1507.4	1520.0
40°	1297.5	1344.5	1408.7	1459.2	1474.1
42.5°	1229.8	1287.1	1356.0	1409.9	1427.1
45°	1165.5	1226.3	1300.9	1359.4	1375.5
47.5°	1097.8	1162.1	1242.4	1304.3	1322.7
50°	1025.6	1099.0	1185.0	1247.0	1264.2
52.5°	957.9	1032.5	1123.1	1187.3	1211.4
55°	886.8	965.9	1058.8	1125.4	1148.3
57.5°	820.2	895.9	995.8	1062.3	1091.0
60°	744.5	828.3	928.1	1000.3	1023.3
62.5°	673.4	758.3	861.5	936.1	962.5
65°	600.0	686.0	792.7	870.7	894.8
67.5°	531.1	616.0	725.0	801.9	832.9
70°	455.4	544.9	656.2	735.3	761.7
72.5°	380.9	473.8	587.4	672.2	702.1
75°	312.0	402.7	520.8	603.4	636.7
77.5°	245.5	337.3	456.6	541.5	570.1
80°	179.0	275.3	396.9	480.7	508.2
82.5°	118.2	219.1	339.6	423.3	453.1
85°	68.8	170.9	289.1	369.4	401.5
87.5°	29.8	129.6	242.1	321.2	347.6
90°	1.1	96.4	204.2	281.1	308.6
92.5°	1.1	94.1	199.6	275.3	301.7
95°	1.1	91.8	198.5	271.9	298.3
97.5°	1.1	90.6	196.2	269.6	294.8
100°	1.1	87.2	192.7	265.0	290.2
102.5°	1.1	82.6	189.3	260.4	284.5
105°	1.1	79.2	185.8	255.8	278.8
107.5°	1.1	75.7	180.1	250.1	273.0
110°	1.1	72.3	170.9	244.3	267.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	71.1	164.0	236.3	260.4
115°	2.3	68.8	157.2	227.1	252.4
117.5°	2.3	67.7	151.4	218.0	244.3
120°	2.3	64.2	145.7	209.9	235.2
122.5°	2.3	60.8	140.0	201.9	227.1
125°	2.3	58.5	134.2	193.9	218.0
127.5°	2.3	55.1	129.6	185.8	207.6
130°	2.3	52.8	123.9	176.7	198.5
132.5°	2.3	49.3	118.2	167.5	188.1
135°	2.3	45.9	112.4	159.5	179.0
137.5°	2.3	41.3	105.5	150.3	168.6
140°	2.3	37.9	96.4	141.1	158.3
142.5°	2.3	35.6	87.2	130.8	146.8
145°	2.3	33.3	78.0	120.5	135.4
147.5°	2.3	31.0	70.0	110.1	123.9
150°	2.3	27.5	61.9	101.0	112.4
152.5°	3.4	25.2	55.1	89.5	101.0
155°	3.4	22.9	48.2	76.9	89.5
157.5°	3.4	20.6	41.3	64.2	78.0
160°	3.4	18.4	35.6	52.8	66.5
162.5°	3.4	17.2	31.0	43.6	56.2
165°	3.4	14.9	26.4	35.6	45.9
167.5°	3.4	11.5	21.8	27.5	37.9
170°	3.4	9.2	17.2	19.5	28.7
172.5°	3.4	6.9	12.6	13.8	14.9
175°	3.4	5.7	8.0	8.0	4.6
177.5°	3.4	4.6	4.6	4.6	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)