

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: P565699

Luminaire Tested: **2SNX-40HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

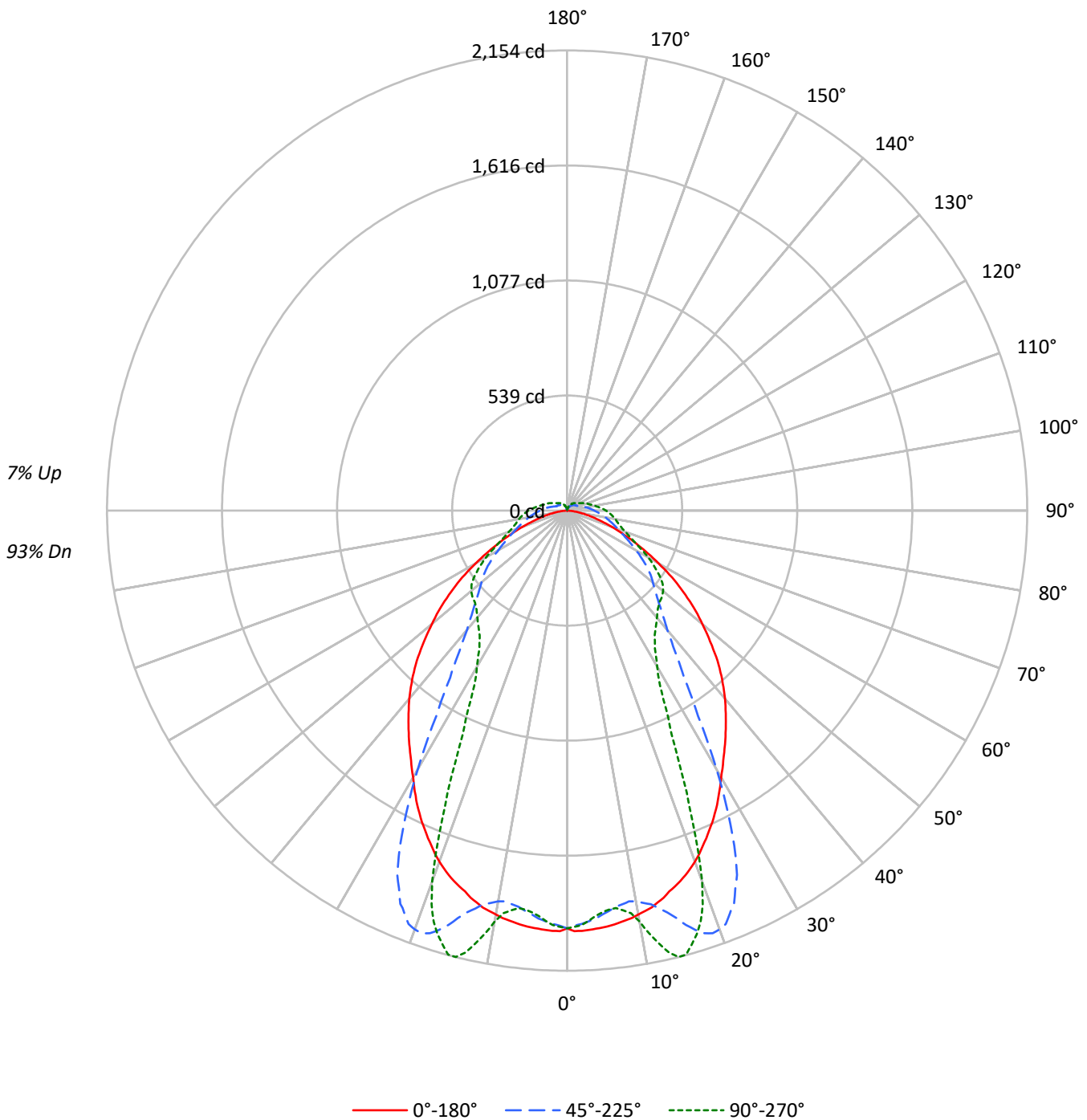
Test Method: LM-79-08  
Report Number: P565699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-40HL-LC-UNV-L835-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4347.0 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.55  
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: P565699  
CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565699

CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	42106	42106	42106
5°	42004	39201	38543
10°	41350	37136	38219
15°	40239	38544	40687
20°	38871	40057	34053
25°	36771	35833	20938
30°	34205	26613	15153
35°	32087	18315	12784
40°	30177	14172	11781
45°	27979	12028	11141
50°	25174	10759	10938
55°	22238	9696	10119
60°	18553	8355	8752
65°	14771	7245	7304
70°	11252	6479	6433
75°	8337	5986	5997
80°	5422	5627	5938
85°	2517	5317	5894



TEST NUMBER: P565699

CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	4.2
10°-20°	556.1	12.8
20°-30°	748.9	17.2
30°-40°	708.7	16.3
40°-50°	625.5	14.4
50°-60°	508.1	11.7
60°-70°	345.6	7.9
70°-80°	222.4	5.1
80°-90°	147.8	3.4
90°-100°	101.6	2.3
100°-110°	68.2	1.6
110°-120°	48.1	1.1
120°-130°	34.4	0.8
130°-140°	24.3	0.6
140°-150°	15.1	0.3
150°-160°	7.3	0.2
160°-170°	2.6	0.1
170°-180°	0.4	0.0
0°-30°	1487.0	34.2
0°-40°	2195.7	50.5
0°-60°	3329.3	76.6
0°-90°	4045.1	93.1
90°-120°	217.9	5.0
90°-150°	291.6	6.7
90°-180°	302.0	6.9
0°-180°	4347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1958	1940	1898	1897	1888	186
15°	1846	1834	1975	2150	2152	520
25°	1608	1907	1882	1367	1156	738
35°	1292	1813	956	736	714	809
45°	996	1220	605	597	610	764
55°	663	721	454	507	526	592
65°	342	389	304	338	348	343
75°	131	184	214	240	252	143
85°	20	78	152	192	206	26
90°	1	54	127	171	182	1
95°	1	42	107	145	155	1
105°	1	29	70	99	111	1
115°	1	25	52	74	83	2
125°	2	21	44	56	60	2
135°	3	17	36	46	49	2
145°	3	12	26	36	39	2
155°	3	7	16	24	27	2
165°	3	5	9	12	15	1
175°	4	4	4	4	3	0
180°	3	3	3	3	3	



TEST NUMBER: P565699

CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1955.9	1955.9	1955.9	1955.9	1955.9
1°	1969.2	1963.2	1943.3	1953.9	1948.6
2°	1968.5	1958.6	1936.0	1948.0	1941.3
3°	1965.2	1954.6	1925.4	1932.7	1922.8
4°	1961.9	1949.3	1914.1	1914.1	1902.8
5°	1957.9	1940.0	1898.2	1896.9	1887.6
6°	1953.3	1932.7	1884.3	1882.9	1877.6
7°	1946.6	1920.1	1869.0	1878.3	1874.3
8°	1938.7	1908.1	1861.0	1884.3	1890.2
9°	1931.4	1893.5	1851.7	1902.8	1907.5
10°	1919.4	1880.3	1857.7	1940.0	1953.9
11°	1909.5	1869.0	1871.0	1976.5	2018.3
12°	1899.5	1857.0	1883.6	2022.3	2073.4
13°	1882.9	1847.8	1911.5	2072.1	2124.5
14°	1868.3	1840.5	1938.7	2122.5	2153.7
15°	1845.8	1833.8	1975.2	2149.7	2151.7
16°	1830.5	1829.2	2017.7	2151.7	2114.6
17°	1813.2	1827.2	2052.2	2117.2	2073.4
18°	1794.0	1831.2	2080.7	2074.1	2023.6
19°	1772.1	1835.1	2092.7	2014.3	1949.3
20°	1748.2	1841.1	2086.0	1952.0	1847.1
21°	1724.3	1849.1	2073.4	1886.2	1713.0
22.5°	1679.8	1868.3	2013.7	1701.7	1491.3
23°	1667.2	1872.3	1999.7	1644.0	1433.6
24°	1636.0	1888.9	1936.0	1509.3	1280.9
25°	1608.2	1906.8	1881.6	1366.6	1155.5
26°	1577.0	1920.1	1799.3	1235.2	1078.5
27°	1546.4	1928.1	1705.7	1132.9	992.2
28°	1511.3	1936.7	1604.2	1044.7	927.2
29°	1478.1	1938.0	1504.0	974.3	876.1
30°	1442.2	1931.4	1398.4	917.9	844.2
32.5°	1363.9	1894.9	1140.2	810.4	764.6
35°	1292.2	1813.2	955.7	736.0	713.5
37.5°	1219.9	1684.5	826.3	689.6	682.3
40°	1148.9	1531.8	728.7	652.4	653.7
42.5°	1073.9	1374.5	661.7	621.9	627.9
45°	995.6	1219.9	604.6	597.3	609.9
47.5°	908.6	1078.5	559.5	581.4	600.7
50°	826.3	938.5	524.3	566.1	586.1
52.5°	748.0	823.7	492.5	540.3	563.5
55°	663.0	721.4	454.0	507.1	526.3
57.5°	582.1	629.2	413.5	465.9	483.2
60°	493.1	538.3	372.3	421.5	438.0
62.5°	412.8	460.6	337.2	377.0	390.3
65°	341.8	388.9	304.0	337.8	348.4



TEST NUMBER: P565699

CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	278.8	329.2	276.8	305.3	315.3
70°	219.7	272.8	252.9	278.8	289.4
72.5°	171.9	225.7	233.0	256.9	267.5
75°	131.4	183.8	214.4	240.3	251.5
77.5°	97.6	150.0	197.1	227.0	238.9
80°	64.4	119.5	181.9	215.0	229.0
82.5°	40.5	96.2	166.6	203.1	217.7
85°	19.9	78.3	152.0	192.5	205.7
87.5°	6.6	65.0	138.7	181.9	193.1
90°	0.7	54.4	126.8	170.6	181.9
92.5°	0.7	47.1	116.8	157.3	168.6
95°	0.7	41.8	106.9	144.7	154.6
97.5°	0.7	37.8	97.6	131.4	142.0
100°	0.7	33.8	87.6	118.8	130.1
102.5°	1.3	31.2	79.0	108.2	120.1
105°	1.3	29.2	70.4	98.9	110.8
107.5°	1.3	27.9	63.1	91.6	102.9
110°	1.3	26.5	57.7	85.0	96.9
112.5°	1.3	25.9	54.4	79.0	90.3
115°	1.3	25.2	51.8	73.7	83.0
117.5°	2.0	24.6	49.8	68.4	75.7
120°	2.0	23.2	48.5	63.7	69.7
122.5°	2.0	21.9	46.5	59.7	64.4
125°	2.0	21.2	44.5	55.8	59.7
127.5°	2.0	19.9	42.5	52.4	56.4
130°	2.7	18.6	40.5	49.8	53.1
132.5°	2.7	17.3	38.5	48.5	51.1
135°	2.7	16.6	36.5	46.5	49.1
137.5°	2.7	15.3	34.5	44.5	47.1
140°	2.7	13.9	31.9	41.8	44.5
142.5°	2.7	13.3	29.2	39.2	41.8
145°	2.7	11.9	25.9	35.8	39.2
147.5°	3.3	11.3	23.2	33.2	35.8
150°	3.3	10.0	20.6	30.5	33.2
152.5°	3.3	8.6	17.9	27.2	29.9
155°	3.3	7.3	15.9	23.9	27.2
157.5°	3.3	6.6	13.9	19.9	23.9
160°	3.3	6.0	11.9	17.3	20.6
162.5°	3.3	5.3	10.6	14.6	17.9
165°	3.3	4.6	8.6	11.9	14.6
167.5°	4.0	4.6	7.3	9.3	11.9
170°	4.0	4.6	6.0	7.3	9.3
172.5°	4.0	4.0	4.6	5.3	6.0
175°	4.0	4.0	4.0	4.0	3.3
177.5°	4.0	4.0	4.0	3.3	3.3



TEST NUMBER: P565699

CATALOG NUMBER: 2SNX-40HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)