

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: P855695

Luminaire Tested: **18SFS-L3C4-NUV-MED-3000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218005-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 18SFS-L3C4-NUV-MED-3000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

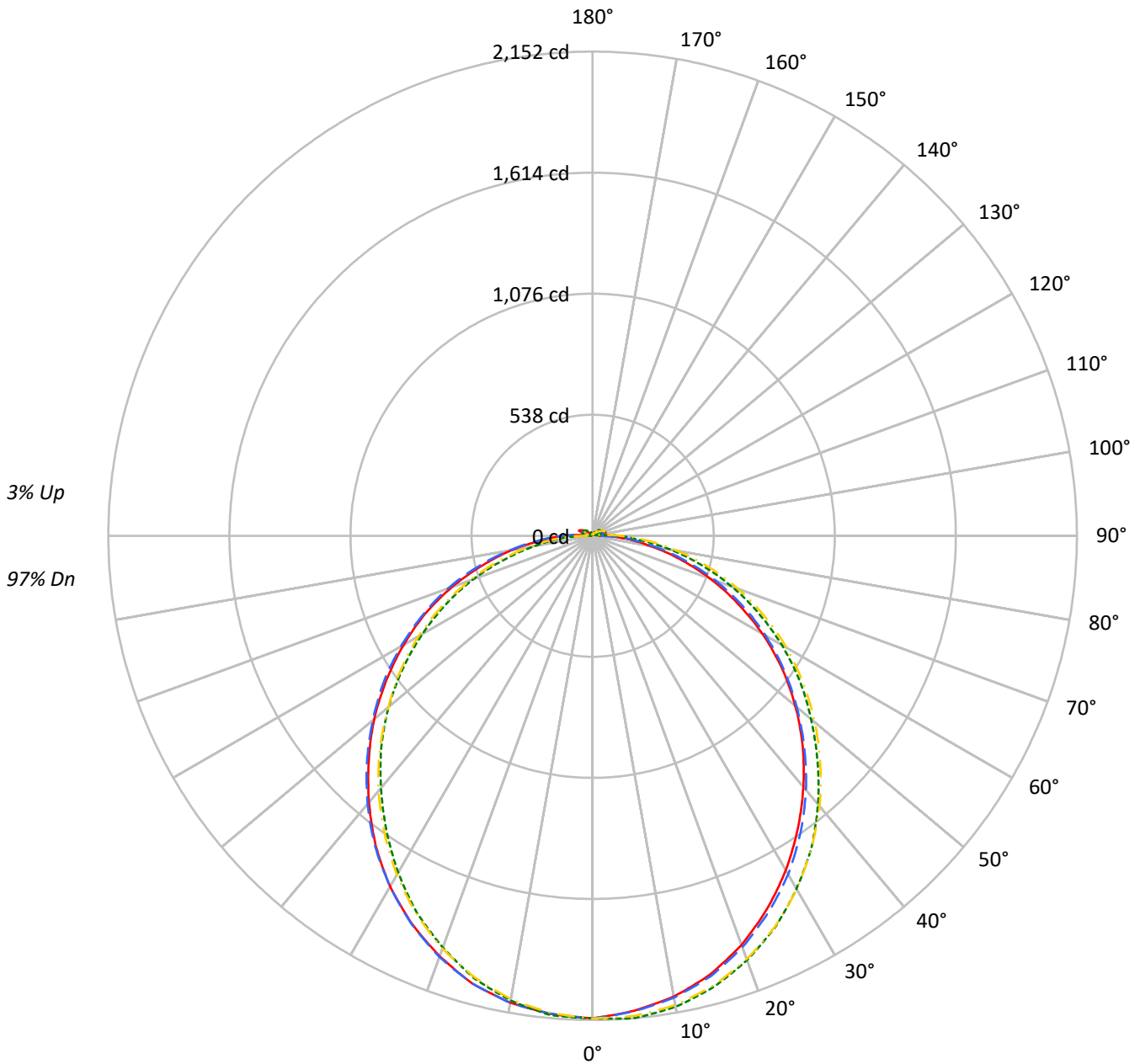
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6373.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	68	68	68	66
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59	66	61	57	57	57	57	55
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	49	49	49	47
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	43	43	43	40
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	38	38	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	33	33	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	30	30	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	27	27	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3218	3218	3218	3218
5°	3192	3242	3213	3222
10°	3168	3239	3211	3197
15°	3136	3227	3202	3163
20°	3090	3205	3175	3109
25°	3033	3179	3149	3061
30°	2975	3139	3119	2994
35°	2912	3104	3079	2928
40°	2854	3052	3029	2866
45°	2800	2998	2985	2818
50°	2744	2958	2958	2762
55°	2687	2940	2926	2692
60°	2615	2913	2908	2620
65°	2522	2887	2914	2551
70°	2436	2885	2913	2466
75°	2323	2888	2926	2329
80°	2218	3012	3127	2236
85°	2491	3543	3796	2553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	3.2
10°-20°	576.7	9.0
20°-30°	865.1	13.6
30°-40°	1030.1	16.2
40°-50°	1060.0	16.6
50°-60°	967.4	15.2
60°-70°	769.1	12.1
70°-80°	494.5	7.8
80°-90°	212.8	3.3
90°-100°	44.3	0.7
100°-110°	45.6	0.7
110°-120°	42.9	0.7
120°-130°	27.8	0.4
130°-140°	16.5	0.3
140°-150°	9.3	0.1
150°-160°	5.5	0.1
160°-170°	2.3	0.0
170°-180°	0.6	0.0
0°-30°	1644.2	25.8
0°-40°	2674.3	42.0
0°-60°	4701.7	73.8
0°-90°	6178.1	96.9
90°-120°	132.9	2.1
90°-150°	186.6	2.9
90°-180°	195.0	3.1
0°-180°	6373.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2145	2145	2145	2145	2145	
5°	2119	2152	2133	2139	2119	201
15°	2019	2077	2061	2036	2019	569
25°	1832	1920	1902	1849	1832	844
35°	1590	1694	1681	1598	1590	995
45°	1320	1413	1406	1328	1320	1018
55°	1027	1124	1118	1029	1027	918
65°	710	813	821	718	710	705
75°	401	498	505	402	401	426
85°	145	206	220	148	145	141
90°	32	115	130	25	32	32
95°	28	30	34	5	28	24
105°	60	38	40	46	60	54
115°	42	50	60	39	42	41
125°	15	40	36	41	15	15
135°	11	34	14	31	11	8
145°	6	22	5	21	6	4
155°	6	18	6	17	6	3
165°	6	8	6	9	6	2
175°	6	6	6	7	6	1
180°	6	6	6	6	6	



TEST NUMBER: P855695

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6
5°	2119.0	2115.4	2121.3	2121.3	2152.0	2138.9	2141.6	2142.2	2132.7	2125.6	2132.4
10°	2079.2	2074.3	2084.1	2083.1	2125.9	2115.8	2118.0	2116.7	2107.3	2099.7	2107.6
15°	2018.8	2013.9	2026.9	2023.3	2076.9	2067.7	2069.7	2069.4	2061.2	2052.7	2060.6
20°	1935.1	1934.5	1946.2	1944.6	2006.7	1998.8	2002.1	2003.1	1988.1	1984.8	1992.0
25°	1831.9	1840.1	1847.3	1845.0	1919.8	1912.6	1917.2	1916.9	1901.8	1903.1	1904.1
30°	1717.0	1728.4	1737.5	1730.7	1811.7	1810.7	1814.0	1811.4	1799.9	1802.9	1800.6
35°	1589.6	1602.3	1610.8	1603.6	1694.4	1691.5	1695.1	1695.1	1680.7	1680.1	1685.6
40°	1457.0	1466.5	1475.0	1470.7	1558.2	1560.5	1569.7	1562.8	1546.2	1553.7	1556.3
45°	1319.5	1326.7	1329.6	1325.4	1412.9	1421.4	1430.9	1424.0	1406.4	1416.2	1417.8
50°	1175.5	1180.7	1184.6	1180.0	1266.9	1280.6	1288.5	1281.6	1267.2	1272.8	1274.4
55°	1027.2	1025.9	1037.3	1037.0	1123.9	1131.0	1142.5	1138.2	1118.3	1124.5	1133.6
60°	871.4	874.7	888.0	881.2	970.7	980.5	995.2	987.7	969.0	979.8	983.4
65°	710.4	724.1	734.2	724.1	813.2	833.8	840.4	838.7	820.8	829.6	832.5
70°	555.2	569.3	580.1	564.4	657.5	675.4	685.9	681.6	664.0	674.1	683.6
75°	400.7	417.4	425.6	413.5	498.1	517.3	532.0	523.9	504.6	523.2	526.2
80°	256.7	273.4	280.2	268.5	348.5	369.7	378.5	369.1	361.9	373.6	374.6
85°	144.7	160.4	160.0	151.2	205.8	229.3	240.1	230.3	220.5	235.5	238.1
90°	32.0	34.0	33.0	27.4	115.3	122.5	125.4	132.6	130.3	131.0	131.0
95°	28.4	26.8	21.2	19.3	30.0	28.7	33.6	33.6	33.6	32.7	29.4
100°	28.7	34.0	45.7	30.0	6.9	23.2	25.1	30.0	31.4	28.4	25.8
105°	60.1	56.5	49.0	36.9	38.2	39.2	51.0	51.9	40.5	49.3	48.3
110°	53.9	50.6	39.5	38.5	46.4	49.0	57.2	67.0	65.0	61.7	48.7
115°	42.1	40.8	30.0	37.2	50.3	43.8	52.9	58.1	60.1	57.8	47.0
120°	25.5	26.8	28.7	37.6	42.8	37.9	41.2	48.7	47.7	49.0	37.6
125°	15.0	21.2	26.1	34.6	39.8	33.6	33.0	34.9	36.3	33.6	31.7
130°	12.4	19.3	21.6	31.4	38.9	31.7	29.4	23.2	20.9	24.5	27.1
135°	10.8	17.0	17.6	25.8	34.3	29.1	19.9	18.9	14.4	20.9	19.3
140°	8.2	12.4	15.4	19.3	27.4	22.9	16.3	14.4	11.8	14.4	16.7
145°	5.9	11.1	14.4	18.0	21.9	18.9	16.3	9.8	5.2	11.8	16.7
150°	6.2	10.5	13.1	17.3	19.3	17.6	14.7	8.8	5.2	10.5	16.0
155°	5.9	9.1	11.4	14.7	18.0	16.3	13.1	8.5	5.9	9.5	13.1
160°	5.6	7.5	9.5	11.1	14.4	11.4	10.1	7.2	5.6	8.2	10.5
165°	5.6	6.5	8.2	7.2	8.5	8.2	8.2	6.5	5.6	7.2	9.1
170°	5.6	6.2	6.9	5.9	7.2	6.2	6.5	5.6	5.6	6.2	7.8
175°	6.2	5.9	6.2	6.5	6.2	6.2	5.6	5.6	5.6	5.6	6.2
180°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6
5°	2136.0	2138.9	2125.6	2128.8	2127.8	2119.0
10°	2106.9	2097.8	2084.1	2091.3	2088.0	2079.2
15°	2057.3	2035.7	2025.6	2030.5	2028.9	2018.8
20°	1988.1	1946.9	1944.9	1952.5	1948.9	1935.1
25°	1902.8	1848.6	1845.7	1853.8	1853.5	1831.9
30°	1798.0	1728.1	1736.2	1739.5	1740.5	1717.0
35°	1677.8	1598.1	1610.2	1612.8	1611.1	1589.6
40°	1548.4	1462.9	1472.3	1480.8	1472.3	1457.0
45°	1409.3	1328.0	1328.3	1336.5	1331.6	1319.5
50°	1266.6	1183.3	1185.3	1185.3	1185.3	1175.5
55°	1120.9	1029.1	1036.6	1041.9	1038.0	1027.2
60°	975.9	873.0	880.2	892.3	881.8	871.4
65°	824.0	718.5	719.8	737.5	729.6	710.4
70°	667.9	562.1	574.5	579.7	568.9	555.2
75°	510.8	401.7	421.6	430.1	413.2	400.7
80°	363.2	258.7	277.3	283.5	269.8	256.7
85°	224.4	148.3	159.1	163.6	154.8	144.7
90°	120.5	25.1	30.0	33.6	33.6	32.0
95°	27.8	5.2	23.5	21.6	27.1	28.4
100°	25.1	38.2	45.4	46.4	30.7	28.7
105°	35.3	46.1	35.6	51.9	54.5	60.1
110°	34.6	42.1	30.0	45.1	51.0	53.9
115°	30.4	39.2	33.6	34.6	39.2	42.1
120°	35.3	44.4	33.6	27.4	25.1	25.5
125°	35.6	40.8	29.1	25.5	18.3	15.0
130°	34.0	35.6	25.5	21.9	16.0	12.4
135°	29.4	30.7	20.2	16.3	14.4	10.8
140°	22.9	23.2	18.0	16.3	9.1	8.2
145°	18.3	20.9	18.6	15.0	8.5	5.9
150°	18.0	20.6	17.0	13.4	8.2	6.2
155°	17.6	17.0	13.7	10.8	7.5	5.9
160°	10.8	10.1	11.4	9.5	6.5	5.6
165°	8.8	8.8	9.8	9.5	6.2	5.6
170°	8.5	7.5	7.8	6.5	6.2	5.6
175°	5.9	7.2	6.2	5.9	6.5	6.2
180°	6.1	6.1	6.1	6.1	6.1	6.1



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)