

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: P855697

Luminaire Tested: **18SFS-L3C4-NUV-MED-4000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855697
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-4000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 4000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

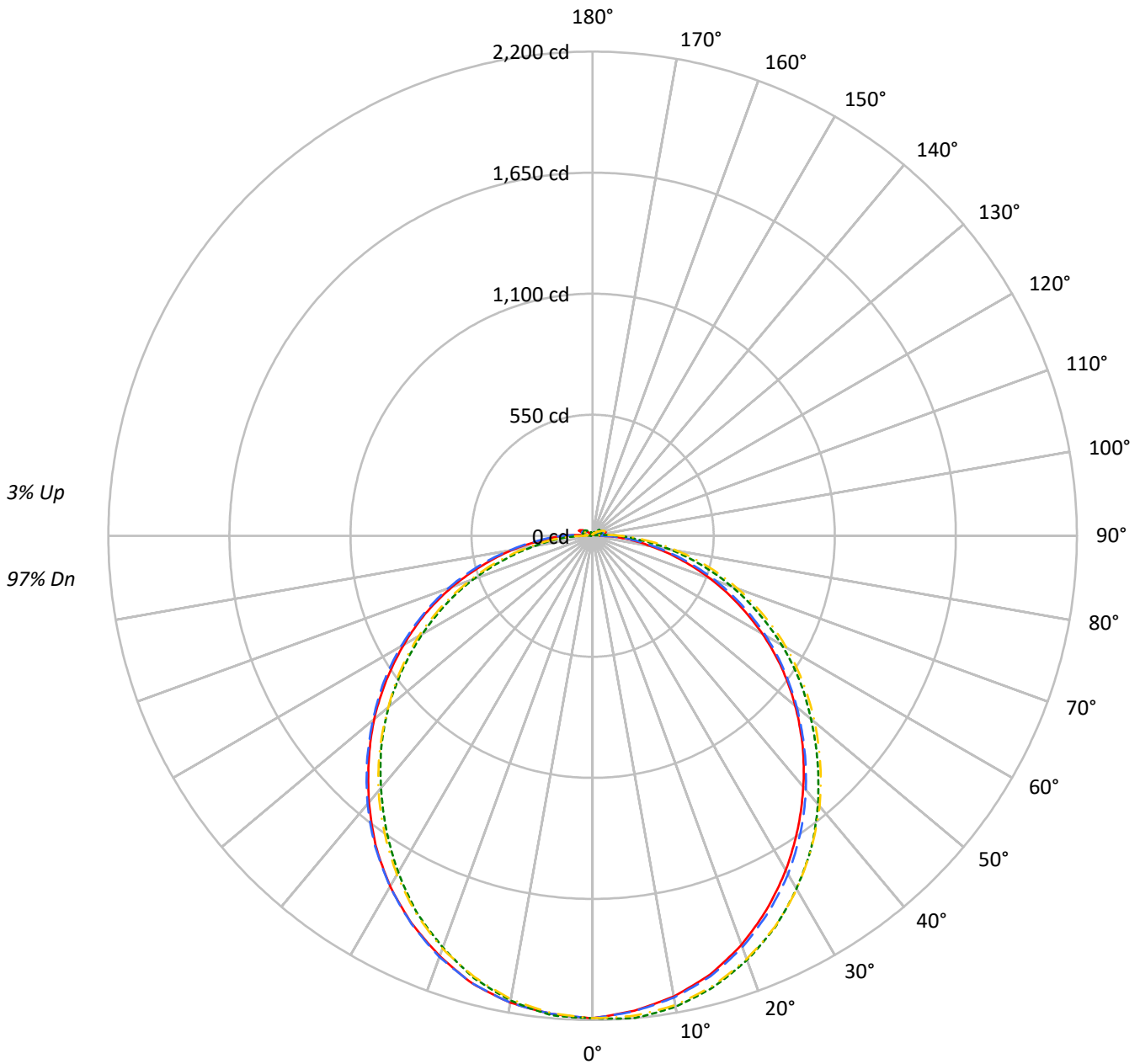
Lumens per Lamp: N/A
Luminaire Lumens: 6514.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3289	3289	3289	3289
5°	3263	3313	3284	3293
10°	3238	3311	3282	3267
15°	3206	3298	3273	3233
20°	3159	3275	3245	3178
25°	3100	3249	3219	3129
30°	3041	3209	3188	3061
35°	2976	3173	3147	2992
40°	2917	3120	3096	2929
45°	2862	3065	3051	2881
50°	2805	3023	3024	2824
55°	2747	3005	2990	2752
60°	2673	2977	2973	2678
65°	2578	2951	2979	2608
70°	2490	2948	2978	2521
75°	2375	2952	2991	2381
80°	2268	3078	3197	2285
85°	2546	3621	3879	2610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	3.2
10°-20°	589.4	9.0
20°-30°	884.2	13.6
30°-40°	1052.9	16.2
40°-50°	1083.5	16.6
50°-60°	988.8	15.2
60°-70°	786.2	12.1
70°-80°	505.4	7.8
80°-90°	217.5	3.3
90°-100°	45.3	0.7
100°-110°	46.7	0.7
110°-120°	43.9	0.7
120°-130°	28.5	0.4
130°-140°	16.9	0.3
140°-150°	9.5	0.1
150°-160°	5.6	0.1
160°-170°	2.3	0.0
170°-180°	0.6	0.0
0°-30°	1680.5	25.8
0°-40°	2733.4	42.0
0°-60°	4805.7	73.8
0°-90°	6314.8	96.9
90°-120°	135.8	2.1
90°-150°	190.7	2.9
90°-180°	199.0	3.1
0°-180°	6514.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2192	2192	2192	2192	2192	
5°	2166	2200	2180	2186	2166	206
15°	2063	2123	2107	2081	2063	582
25°	1872	1962	1944	1890	1872	863
35°	1625	1732	1718	1633	1625	1017
45°	1349	1444	1438	1357	1349	1041
55°	1050	1149	1143	1052	1050	938
65°	726	831	839	734	726	721
75°	410	509	516	411	410	435
85°	148	210	225	152	148	144
90°	33	118	133	26	33	33
95°	29	31	34	5	29	25
105°	61	39	41	47	61	55
115°	43	51	61	40	43	42
125°	15	41	37	42	15	16
135°	11	35	15	31	11	8
145°	6	22	5	21	6	4
155°	6	18	6	17	6	3
165°	6	9	6	9	6	2
175°	6	6	6	7	6	1
180°	6	6	6	6	6	



TEST NUMBER: P855697

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0
5°	2165.9	2162.2	2168.2	2168.2	2199.6	2186.3	2188.9	2189.6	2179.9	2172.6	2179.6
10°	2125.2	2120.2	2130.2	2129.2	2172.9	2162.6	2164.9	2163.6	2153.9	2146.2	2154.2
15°	2063.4	2058.4	2071.8	2068.1	2122.8	2113.5	2115.5	2115.2	2106.8	2098.1	2106.1
20°	1978.0	1977.3	1989.3	1987.6	2051.1	2043.1	2046.4	2047.4	2032.0	2028.7	2036.0
25°	1872.5	1880.8	1888.2	1885.8	1962.3	1954.9	1959.6	1959.3	1943.9	1945.2	1946.2
30°	1755.0	1766.6	1776.0	1769.0	1851.8	1850.8	1854.1	1851.4	1839.7	1842.8	1840.4
35°	1624.8	1637.8	1646.5	1639.1	1731.9	1728.9	1732.6	1732.6	1717.9	1717.2	1722.9
40°	1489.2	1498.9	1507.6	1503.2	1592.7	1595.0	1604.4	1597.4	1580.4	1588.0	1590.7
45°	1348.7	1356.0	1359.0	1354.7	1444.2	1452.8	1462.5	1455.5	1437.5	1447.5	1449.2
50°	1201.5	1206.8	1210.8	1206.1	1294.9	1309.0	1317.0	1310.0	1295.3	1300.9	1302.6
55°	1049.9	1048.6	1060.3	1059.9	1148.7	1156.1	1167.7	1163.4	1143.0	1149.4	1158.7
60°	890.7	894.0	907.7	900.7	992.1	1002.2	1017.2	1009.5	990.5	1001.5	1005.2
65°	726.1	740.1	750.5	740.1	831.2	852.3	859.0	857.3	838.9	847.9	850.9
70°	567.5	581.9	592.9	576.9	672.0	690.4	701.0	696.7	678.7	689.0	698.7
75°	409.6	426.6	435.0	422.6	509.1	528.8	543.8	535.5	515.8	534.8	537.8
80°	262.4	279.4	286.4	274.4	356.2	377.9	386.9	377.2	369.9	381.9	382.9
85°	147.9	163.9	163.6	154.6	210.3	234.4	245.4	235.4	225.3	240.7	243.4
90°	32.7	34.7	33.7	28.0	117.8	125.2	128.2	135.5	133.2	133.9	133.9
95°	29.0	27.4	21.7	19.7	30.7	29.4	34.4	34.4	34.4	33.4	30.0
100°	29.4	34.7	46.7	30.7	7.0	23.7	25.7	30.7	32.0	29.0	26.4
105°	61.4	57.8	50.1	37.7	39.1	40.1	52.1	53.1	41.4	50.4	49.4
110°	55.1	51.7	40.4	39.4	47.4	50.1	58.4	68.4	66.4	63.1	49.7
115°	43.1	41.7	30.7	38.1	51.4	44.7	54.1	59.4	61.4	59.1	48.1
120°	26.0	27.4	29.4	38.4	43.7	38.7	42.1	49.7	48.7	50.1	38.4
125°	15.4	21.7	26.7	35.4	40.7	34.4	33.7	35.7	37.1	34.4	32.4
130°	12.7	19.7	22.0	32.0	39.7	32.4	30.0	23.7	21.4	25.0	27.7
135°	11.0	17.4	18.0	26.4	35.1	29.7	20.4	19.4	14.7	21.4	19.7
140°	8.3	12.7	15.7	19.7	28.0	23.4	16.7	14.7	12.0	14.7	17.0
145°	6.0	11.4	14.7	18.4	22.4	19.4	16.7	10.0	5.3	12.0	17.0
150°	6.3	10.7	13.4	17.7	19.7	18.0	15.0	9.0	5.3	10.7	16.4
155°	6.0	9.3	11.7	15.0	18.4	16.7	13.4	8.7	6.0	9.7	13.4
160°	5.7	7.7	9.7	11.4	14.7	11.7	10.3	7.3	5.7	8.3	10.7
165°	5.7	6.7	8.3	7.3	8.7	8.3	8.3	6.7	5.7	7.3	9.3
170°	5.7	6.3	7.0	6.0	7.3	6.3	6.7	5.7	5.7	6.3	8.0
175°	6.3	6.0	6.3	6.7	6.3	6.3	5.7	5.7	5.7	5.7	6.3
180°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2192.0	2192.0	2192.0	2192.0	2192.0	2192.0
5°	2183.3	2186.3	2172.6	2175.9	2174.9	2165.9
10°	2153.6	2144.2	2130.2	2137.5	2134.2	2125.2
15°	2102.8	2080.8	2070.4	2075.4	2073.8	2063.4
20°	2032.0	1990.0	1988.0	1995.6	1992.0	1978.0
25°	1944.9	1889.5	1886.5	1894.8	1894.5	1872.5
30°	1837.7	1766.3	1774.7	1778.0	1779.0	1755.0
35°	1714.9	1633.4	1645.8	1648.5	1646.8	1624.8
40°	1582.7	1495.2	1504.9	1513.6	1504.9	1489.2
45°	1440.5	1357.4	1357.7	1366.0	1361.0	1348.7
50°	1294.6	1209.5	1211.5	1211.5	1211.5	1201.5
55°	1145.7	1051.9	1059.6	1064.9	1060.9	1049.9
60°	997.5	892.3	899.7	912.0	901.3	890.7
65°	842.3	734.4	735.8	753.8	745.8	726.1
70°	682.7	574.5	587.2	592.6	581.5	567.5
75°	522.1	410.6	431.0	439.7	422.3	409.6
80°	371.2	264.4	283.4	289.8	275.7	262.4
85°	229.3	151.6	162.6	167.3	158.2	147.9
90°	123.2	25.7	30.7	34.4	34.4	32.7
95°	28.4	5.3	24.0	22.0	27.7	29.0
100°	25.7	39.1	46.4	47.4	31.4	29.4
105°	36.1	47.1	36.4	53.1	55.8	61.4
110°	35.4	43.1	30.7	46.1	52.1	55.1
115°	31.0	40.1	34.4	35.4	40.1	43.1
120°	36.1	45.4	34.4	28.0	25.7	26.0
125°	36.4	41.7	29.7	26.0	18.7	15.4
130°	34.7	36.4	26.0	22.4	16.4	12.7
135°	30.0	31.4	20.7	16.7	14.7	11.0
140°	23.4	23.7	18.4	16.7	9.3	8.3
145°	18.7	21.4	19.0	15.4	8.7	6.0
150°	18.4	21.0	17.4	13.7	8.3	6.3
155°	18.0	17.4	14.0	11.0	7.7	6.0
160°	11.0	10.3	11.7	9.7	6.7	5.7
165°	9.0	9.0	10.0	9.7	6.3	5.7
170°	8.7	7.7	8.0	6.7	6.3	5.7
175°	6.0	7.3	6.3	6.0	6.7	6.3
180°	6.3	6.3	6.3	6.3	6.3	6.3



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)