

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: P855696

Luminaire Tested: **18SFS-L3C4-NUV-MED-3500K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855696
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-3500K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

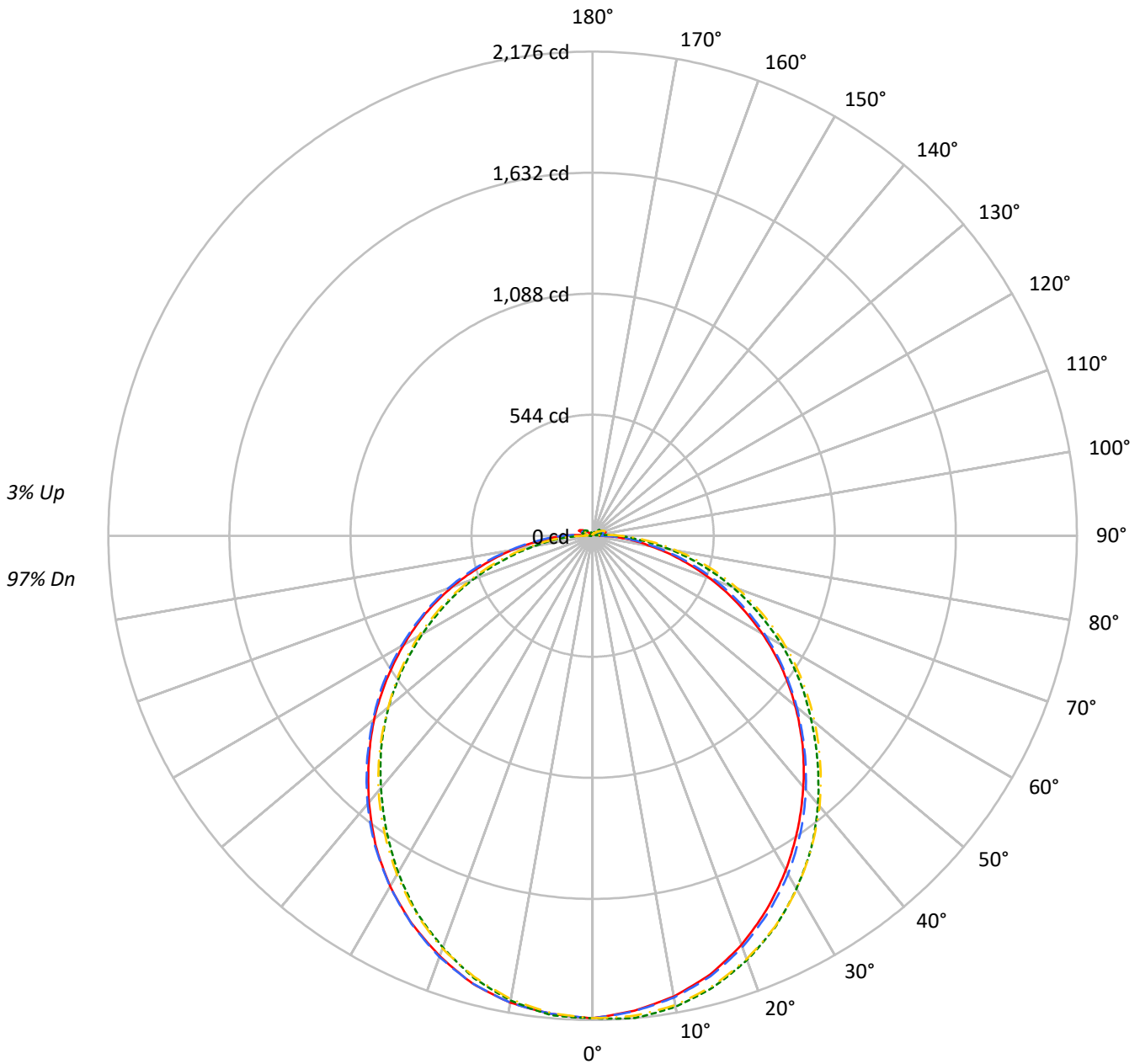
Lumens per Lamp: N/A
Luminaire Lumens: 6443.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P855696

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P855696

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3500K

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°	3253	3253	3253	3253
5°	3227	3277	3248	3257
10°	3203	3275	3246	3232
15°	3171	3262	3237	3197
20°	3124	3240	3210	3143
25°	3067	3214	3183	3094
30°	3008	3174	3153	3027
35°	2944	3138	3113	2960
40°	2885	3086	3062	2897
45°	2831	3031	3017	2849
50°	2774	2990	2991	2793
55°	2717	2973	2958	2722
60°	2644	2945	2940	2649
65°	2550	2919	2946	2579
70°	2463	2916	2945	2493
75°	2349	2919	2957	2355
80°	2242	3044	3162	2260
85°	2519	3581	3838	2581



TEST NUMBER: P855696

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	3.2
10°-20°	583.0	9.0
20°-30°	874.6	13.6
30°-40°	1041.4	16.2
40°-50°	1071.7	16.6
50°-60°	978.0	15.2
60°-70°	777.6	12.1
70°-80°	499.9	7.8
80°-90°	215.1	3.3
90°-100°	44.8	0.7
100°-110°	46.1	0.7
110°-120°	43.4	0.7
120°-130°	28.2	0.4
130°-140°	16.7	0.3
140°-150°	9.4	0.1
150°-160°	5.5	0.1
160°-170°	2.3	0.0
170°-180°	0.6	0.0
0°-30°	1662.2	25.8
0°-40°	2703.6	42.0
0°-60°	4753.3	73.8
0°-90°	6245.9	96.9
90°-120°	134.4	2.1
90°-150°	188.6	2.9
90°-180°	197.0	3.1
0°-180°	6443.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2168	2168	2168	2168	2168	
5°	2142	2176	2156	2162	2142	203
15°	2041	2100	2084	2058	2041	575
25°	1852	1941	1923	1869	1852	853
35°	1607	1713	1699	1616	1607	1006
45°	1334	1428	1422	1343	1334	1029
55°	1038	1136	1131	1040	1038	928
65°	718	822	830	726	718	713
75°	405	504	510	406	405	430
85°	146	208	223	150	146	142
90°	32	117	132	25	32	33
95°	29	30	34	5	29	24
105°	61	39	41	47	61	54
115°	43	51	61	40	43	41
125°	15	40	37	41	15	15
135°	11	35	14	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: P855696

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1
5°	2142.3	2138.7	2144.6	2144.6	2175.6	2162.4	2165.1	2165.7	2156.2	2148.9	2155.8
10°	2102.0	2097.1	2107.0	2106.0	2149.2	2139.0	2141.3	2140.0	2130.4	2122.8	2130.7
15°	2040.9	2036.0	2049.2	2045.5	2099.7	2090.5	2092.4	2092.1	2083.8	2075.3	2083.2
20°	1956.4	1955.7	1967.6	1966.0	2028.7	2020.8	2024.1	2025.1	2009.9	2006.6	2013.8
25°	1852.1	1860.3	1867.6	1865.3	1940.9	1933.6	1938.2	1937.9	1922.7	1924.0	1925.0
30°	1735.8	1747.4	1756.6	1749.7	1831.6	1830.6	1833.9	1831.3	1819.7	1822.7	1820.4
35°	1607.1	1619.9	1628.5	1621.2	1713.0	1710.1	1713.7	1713.7	1699.2	1698.5	1704.1
40°	1473.0	1482.6	1491.2	1486.9	1575.4	1577.7	1586.9	1580.0	1563.1	1570.7	1573.4
45°	1334.0	1341.2	1344.2	1339.9	1428.4	1437.0	1446.6	1439.6	1421.8	1431.7	1433.4
50°	1188.4	1193.6	1197.6	1193.0	1280.8	1294.7	1302.6	1295.7	1281.2	1286.8	1288.4
55°	1038.5	1037.1	1048.7	1048.4	1136.2	1143.5	1155.0	1150.7	1130.6	1136.9	1146.1
60°	881.0	884.3	897.8	890.9	981.3	991.2	1006.1	998.5	979.7	990.6	994.2
65°	718.2	732.0	742.3	732.0	822.2	843.0	849.6	847.9	829.8	838.7	841.7
70°	561.3	575.5	586.4	570.6	664.7	682.8	693.4	689.1	671.3	681.5	691.1
75°	405.1	422.0	430.2	418.0	503.5	523.0	537.9	529.6	510.1	529.0	531.9
80°	259.5	276.4	283.3	271.4	352.3	373.8	382.7	373.1	365.9	377.7	378.7
85°	146.3	162.1	161.8	152.9	208.0	231.8	242.7	232.8	222.9	238.1	240.7
90°	32.4	34.3	33.3	27.7	116.6	123.8	126.8	134.1	131.7	132.4	132.4
95°	28.7	27.1	21.5	19.5	30.4	29.1	34.0	34.0	34.0	33.0	29.7
100°	29.1	34.3	46.2	30.4	6.9	23.4	25.4	30.4	31.7	28.7	26.1
105°	60.8	57.1	49.5	37.3	38.6	39.6	51.5	52.5	40.9	49.9	48.9
110°	54.5	51.2	40.0	39.0	46.9	49.5	57.8	67.7	65.7	62.4	49.2
115°	42.6	41.3	30.4	37.6	50.8	44.2	53.5	58.8	60.8	58.4	47.5
120°	25.8	27.1	29.1	38.0	43.3	38.3	41.6	49.2	48.2	49.5	38.0
125°	15.2	21.5	26.4	35.0	40.3	34.0	33.3	35.3	36.7	34.0	32.0
130°	12.5	19.5	21.8	31.7	39.3	32.0	29.7	23.4	21.1	24.8	27.4
135°	10.9	17.2	17.8	26.1	34.7	29.4	20.1	19.2	14.5	21.1	19.5
140°	8.3	12.5	15.5	19.5	27.7	23.1	16.5	14.5	11.9	14.5	16.8
145°	5.9	11.2	14.5	18.2	22.1	19.2	16.5	9.9	5.3	11.9	16.8
150°	6.3	10.6	13.2	17.5	19.5	17.8	14.9	8.9	5.3	10.6	16.2
155°	5.9	9.2	11.6	14.9	18.2	16.5	13.2	8.6	5.9	9.6	13.2
160°	5.6	7.6	9.6	11.2	14.5	11.6	10.2	7.3	5.6	8.3	10.6
165°	5.6	6.6	8.3	7.3	8.6	8.3	8.3	6.6	5.6	7.3	9.2
170°	5.6	6.3	6.9	5.9	7.3	6.3	6.6	5.6	5.6	6.3	7.9
175°	6.3	5.9	6.3	6.6	6.3	6.3	5.6	5.6	5.6	5.6	6.3
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2



TEST NUMBER: P855696

CATALOG NUMBER: 18SFS-L3C4-NUV-MED-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2168.1	2168.1	2168.1	2168.1	2168.1	2168.1
5°	2159.5	2162.4	2148.9	2152.2	2151.2	2142.3
10°	2130.1	2120.8	2107.0	2114.2	2110.9	2102.0
15°	2079.9	2058.1	2047.9	2052.8	2051.2	2040.9
20°	2009.9	1968.3	1966.3	1973.9	1970.3	1956.4
25°	1923.7	1868.9	1865.9	1874.2	1873.8	1852.1
30°	1817.7	1747.1	1755.3	1758.6	1759.6	1735.8
35°	1696.2	1615.6	1627.9	1630.5	1628.8	1607.1
40°	1565.4	1478.9	1488.5	1497.1	1488.5	1473.0
45°	1424.8	1342.6	1342.9	1351.2	1346.2	1334.0
50°	1280.5	1196.3	1198.3	1198.3	1198.3	1188.4
55°	1133.2	1040.4	1048.0	1053.3	1049.4	1038.5
60°	986.6	882.6	889.9	902.1	891.5	881.0
65°	833.1	726.4	727.7	745.6	737.7	718.2
70°	675.2	568.3	580.8	586.1	575.2	561.3
75°	516.4	406.1	426.3	434.9	417.7	405.1
80°	367.2	261.5	280.3	286.6	272.7	259.5
85°	226.8	149.9	160.8	165.4	156.5	146.3
90°	121.8	25.4	30.4	34.0	34.0	32.4
95°	28.1	5.3	23.8	21.8	27.4	28.7
100°	25.4	38.6	45.9	46.9	31.0	29.1
105°	35.7	46.6	36.0	52.5	55.1	60.8
110°	35.0	42.6	30.4	45.6	51.5	54.5
115°	30.7	39.6	34.0	35.0	39.6	42.6
120°	35.7	44.9	34.0	27.7	25.4	25.8
125°	36.0	41.3	29.4	25.8	18.5	15.2
130°	34.3	36.0	25.8	22.1	16.2	12.5
135°	29.7	31.0	20.5	16.5	14.5	10.9
140°	23.1	23.4	18.2	16.5	9.2	8.3
145°	18.5	21.1	18.8	15.2	8.6	5.9
150°	18.2	20.8	17.2	13.5	8.3	6.3
155°	17.8	17.2	13.9	10.9	7.6	5.9
160°	10.9	10.2	11.6	9.6	6.6	5.6
165°	8.9	8.9	9.9	9.6	6.3	5.6
170°	8.6	7.6	7.9	6.6	6.3	5.6
175°	5.9	7.3	6.3	5.9	6.6	6.3
180°	6.2	6.2	6.2	6.2	6.2	6.2



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)