

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: P855693

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

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855693
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-LOW-4000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 4000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

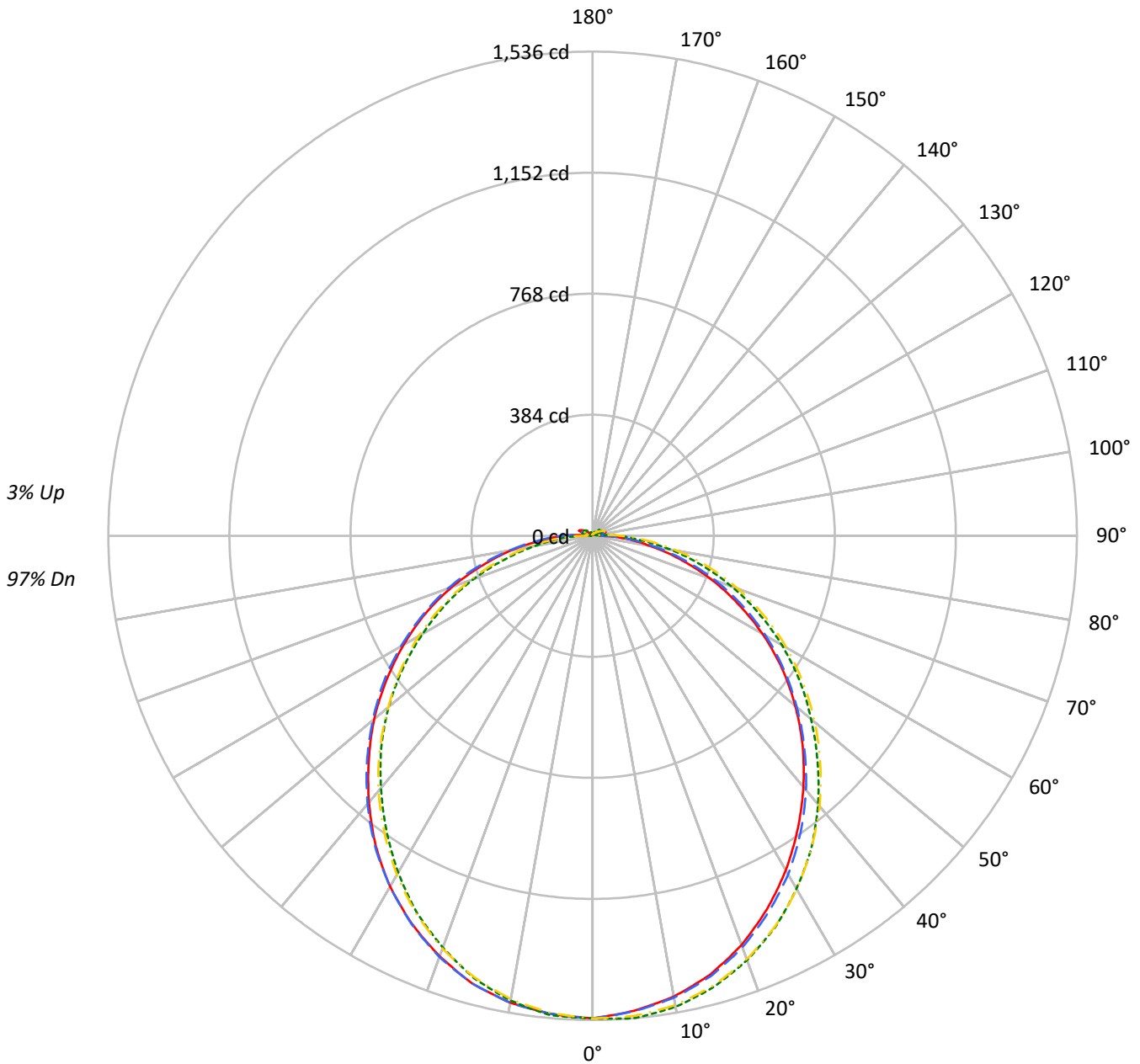
Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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°	2297	2297	2297	2297
5°	2278	2314	2293	2300
10°	2261	2312	2292	2282
15°	2239	2303	2286	2257
20°	2206	2287	2266	2219
25°	2165	2269	2248	2185
30°	2124	2241	2226	2137
35°	2078	2216	2198	2090
40°	2037	2179	2162	2045
45°	1999	2140	2130	2012
50°	1959	2111	2112	1972
55°	1918	2099	2088	1922
60°	1867	2080	2076	1870
65°	1801	2061	2080	1821
70°	1739	2059	2080	1760
75°	1658	2061	2088	1662
80°	1583	2149	2232	1595
85°	1779	2529	2710	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.2
10°-20°	411.6	9.0
20°-30°	617.5	13.6
30°-40°	735.3	16.2
40°-50°	756.6	16.6
50°-60°	690.5	15.2
60°-70°	549.0	12.1
70°-80°	353.0	7.8
80°-90°	151.9	3.3
90°-100°	31.6	0.7
100°-110°	32.6	0.7
110°-120°	30.6	0.7
120°-130°	19.9	0.4
130°-140°	11.8	0.3
140°-150°	6.7	0.1
150°-160°	3.9	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1173.6	25.8
0°-40°	1908.9	42.0
0°-60°	3356.0	73.8
0°-90°	4409.9	96.9
90°-120°	94.9	2.1
90°-150°	133.2	2.9
90°-180°	139.0	3.1
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1531	1531	1531	1531	1531	
5°	1512	1536	1522	1527	1512	144
15°	1441	1482	1471	1453	1441	406
25°	1308	1370	1358	1320	1308	603
35°	1135	1210	1200	1141	1135	710
45°	942	1008	1004	948	942	727
55°	733	802	798	735	733	655
65°	507	580	586	513	507	503
75°	286	356	360	287	286	304
85°	103	147	157	106	103	101
90°	23	82	93	18	23	23
95°	20	21	24	4	20	17
105°	43	27	29	33	43	38
115°	30	36	43	28	30	29
125°	11	28	26	29	11	11
135°	8	24	10	22	8	6
145°	4	16	4	15	4	3
155°	4	13	4	12	4	2
165°	4	6	4	6	4	1
175°	4	4	4	5	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8
5°	1512.5	1510.0	1514.2	1514.2	1536.1	1526.8	1528.6	1529.1	1522.3	1517.2	1522.1
10°	1484.1	1480.6	1487.6	1486.9	1517.4	1510.2	1511.8	1510.9	1504.1	1498.8	1504.4
15°	1441.0	1437.5	1446.8	1444.2	1482.5	1475.9	1477.3	1477.1	1471.3	1465.2	1470.8
20°	1381.3	1380.8	1389.2	1388.0	1432.3	1426.7	1429.1	1429.8	1419.1	1416.7	1421.9
25°	1307.6	1313.4	1318.6	1316.9	1370.3	1365.2	1368.5	1368.2	1357.5	1358.4	1359.1
30°	1225.6	1233.7	1240.2	1235.4	1293.2	1292.5	1294.8	1292.9	1284.8	1286.9	1285.2
35°	1134.6	1143.7	1149.8	1144.7	1209.5	1207.4	1209.9	1209.9	1199.7	1199.2	1203.2
40°	1040.0	1046.7	1052.8	1049.8	1112.3	1113.9	1120.4	1115.5	1103.6	1109.0	1110.9
45°	941.8	947.0	949.1	946.0	1008.5	1014.6	1021.3	1016.4	1003.9	1010.8	1012.0
50°	839.0	842.8	845.6	842.3	904.3	914.1	919.7	914.8	904.5	908.5	909.7
55°	733.2	732.3	740.4	740.2	802.2	807.3	815.5	812.5	798.2	802.7	809.2
60°	622.0	624.3	633.9	629.0	692.9	699.9	710.3	705.0	691.7	699.4	702.0
65°	507.1	516.8	524.1	516.8	580.5	595.2	599.8	598.7	585.9	592.1	594.2
70°	396.3	406.3	414.0	402.8	469.3	482.1	489.6	486.5	474.0	481.2	487.9
75°	286.0	297.9	303.8	295.1	355.5	369.3	379.8	373.9	360.2	373.5	375.6
80°	183.2	195.1	200.0	191.6	248.7	263.9	270.2	263.4	258.3	266.7	267.4
85°	103.3	114.5	114.2	107.9	146.9	163.7	171.4	164.4	157.4	168.1	170.0
90°	22.8	24.2	23.5	19.6	82.3	87.4	89.5	94.7	93.0	93.5	93.5
95°	20.3	19.1	15.2	13.8	21.4	20.5	24.0	24.0	24.0	23.3	21.0
100°	20.5	24.2	32.6	21.4	4.9	16.6	18.0	21.4	22.4	20.3	18.4
105°	42.9	40.3	35.0	26.3	27.3	28.0	36.4	37.1	28.9	35.2	34.5
110°	38.5	36.1	28.2	27.5	33.1	35.0	40.8	47.8	46.4	44.1	34.7
115°	30.1	29.1	21.4	26.6	35.9	31.2	37.8	41.5	42.9	41.3	33.6
120°	18.2	19.1	20.5	26.8	30.5	27.0	29.4	34.7	34.0	35.0	26.8
125°	10.7	15.2	18.7	24.7	28.4	24.0	23.5	24.9	25.9	24.0	22.6
130°	8.9	13.8	15.4	22.4	27.7	22.6	21.0	16.6	14.9	17.5	19.3
135°	7.7	12.1	12.6	18.4	24.5	20.7	14.2	13.5	10.3	14.9	13.8
140°	5.8	8.9	11.0	13.8	19.6	16.3	11.7	10.3	8.4	10.3	11.9
145°	4.2	7.9	10.3	12.8	15.6	13.5	11.7	7.0	3.7	8.4	11.9
150°	4.4	7.5	9.3	12.4	13.8	12.6	10.5	6.3	3.7	7.5	11.4
155°	4.2	6.5	8.2	10.5	12.8	11.7	9.3	6.1	4.2	6.8	9.3
160°	4.0	5.4	6.8	7.9	10.3	8.2	7.2	5.1	4.0	5.8	7.5
165°	4.0	4.7	5.8	5.1	6.1	5.8	5.8	4.7	4.0	5.1	6.5
170°	4.0	4.4	4.9	4.2	5.1	4.4	4.7	4.0	4.0	4.4	5.6
175°	4.4	4.2	4.4	4.7	4.4	4.4	4.0	4.0	4.0	4.0	4.4
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1530.8	1530.8	1530.8	1530.8	1530.8	1530.8
5°	1524.7	1526.8	1517.2	1519.5	1518.8	1512.5
10°	1503.9	1497.4	1487.6	1492.7	1490.4	1484.1
15°	1468.5	1453.1	1445.9	1449.4	1448.2	1441.0
20°	1419.1	1389.7	1388.3	1393.6	1391.1	1381.3
25°	1358.2	1319.5	1317.4	1323.2	1323.0	1307.6
30°	1283.4	1233.5	1239.3	1241.6	1242.3	1225.6
35°	1197.6	1140.7	1149.3	1151.2	1150.0	1134.6
40°	1105.3	1044.2	1050.9	1057.0	1050.9	1040.0
45°	1006.0	947.9	948.1	954.0	950.5	941.8
50°	904.1	844.6	846.0	846.0	846.0	839.0
55°	800.1	734.6	740.0	743.7	740.9	733.2
60°	696.6	623.2	628.3	636.9	629.4	622.0
65°	588.2	512.9	513.8	526.4	520.8	507.1
70°	476.7	401.2	410.1	413.8	406.1	396.3
75°	364.6	286.7	301.0	307.0	294.9	286.0
80°	259.2	184.6	197.9	202.4	192.6	183.2
85°	160.2	105.8	113.5	116.8	110.5	103.3
90°	86.0	18.0	21.4	24.0	24.0	22.8
95°	19.8	3.7	16.8	15.4	19.3	20.3
100°	18.0	27.3	32.4	33.1	21.9	20.5
105°	25.2	32.9	25.4	37.1	38.9	42.9
110°	24.7	30.1	21.4	32.2	36.4	38.5
115°	21.7	28.0	24.0	24.7	28.0	30.1
120°	25.2	31.7	24.0	19.6	18.0	18.2
125°	25.4	29.1	20.7	18.2	13.1	10.7
130°	24.2	25.4	18.2	15.6	11.4	8.9
135°	21.0	21.9	14.5	11.7	10.3	7.7
140°	16.3	16.6	12.8	11.7	6.5	5.8
145°	13.1	14.9	13.3	10.7	6.1	4.2
150°	12.8	14.7	12.1	9.6	5.8	4.4
155°	12.6	12.1	9.8	7.7	5.4	4.2
160°	7.7	7.2	8.2	6.8	4.7	4.0
165°	6.3	6.3	7.0	6.8	4.4	4.0
170°	6.1	5.4	5.6	4.7	4.4	4.0
175°	4.2	5.1	4.4	4.2	4.7	4.4
180°	4.4	4.4	4.4	4.4	4.4	4.4



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)