

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: P855689

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

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855689
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-HIGH-4000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 4000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

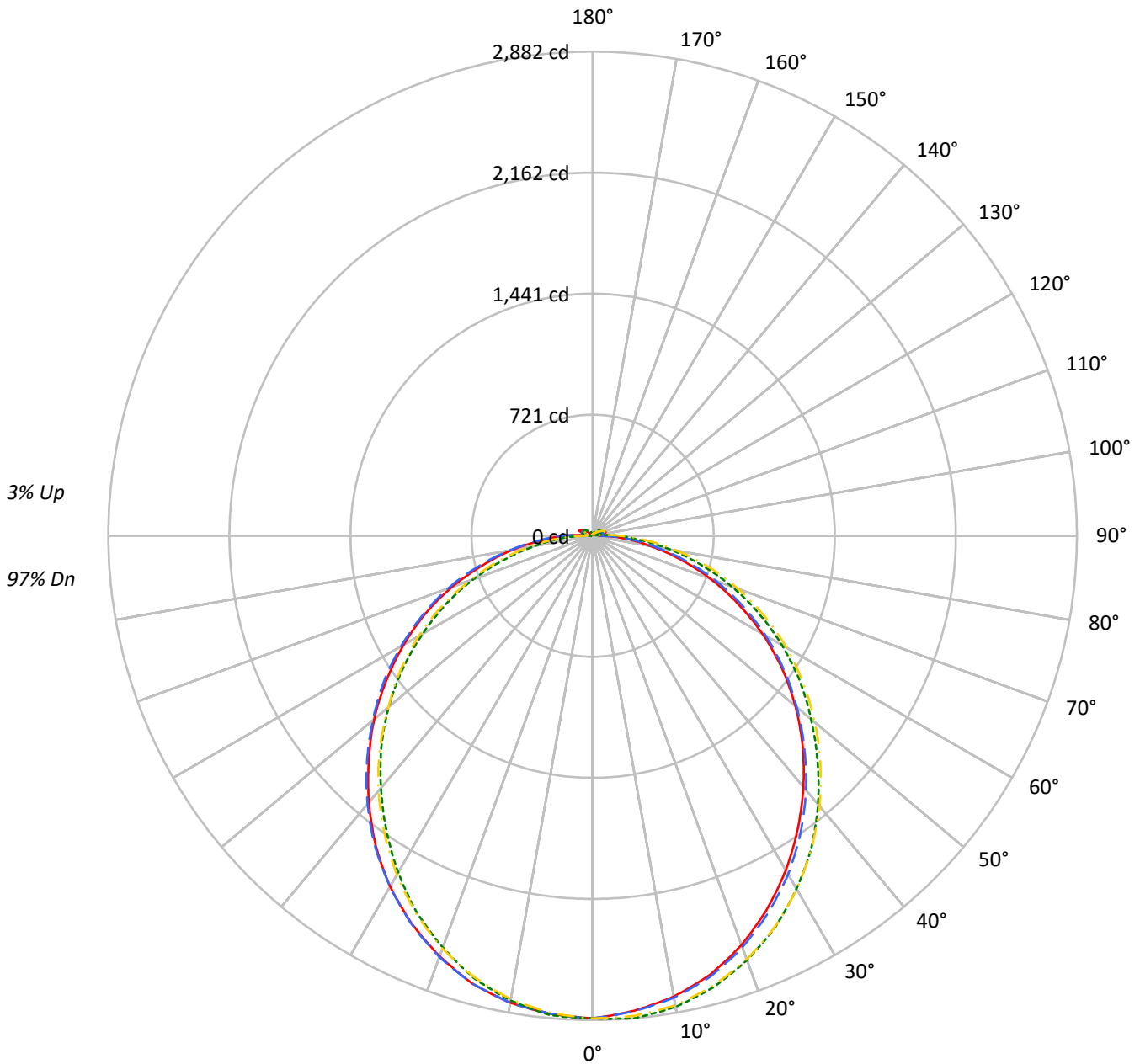
Lumens per Lamp: N/A
Luminaire Lumens: 8536.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 7.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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: P855689

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

Luminous Intensity Polar Plot





TEST NUMBER: P855689

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

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°	4310	4310	4310	4310
5°	4275	4342	4303	4315
10°	4243	4339	4301	4281
15°	4201	4322	4289	4236
20°	4139	4292	4252	4164
25°	4063	4258	4218	4100
30°	3985	4205	4177	4011
35°	3900	4157	4124	3921
40°	3823	4088	4057	3838
45°	3751	4016	3998	3775
50°	3675	3961	3962	3700
55°	3599	3938	3919	3606
60°	3503	3902	3895	3509
65°	3379	3868	3903	3417
70°	3263	3864	3902	3303
75°	3112	3868	3919	3120
80°	2971	4034	4189	2994
85°	3337	4745	5084	3419



TEST NUMBER: P855689

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	3.2
10°-20°	772.4	9.0
20°-30°	1158.7	13.6
30°-40°	1379.7	16.2
40°-50°	1419.8	16.6
50°-60°	1295.7	15.2
60°-70°	1030.2	12.1
70°-80°	662.3	7.8
80°-90°	285.0	3.3
90°-100°	59.4	0.7
100°-110°	61.1	0.7
110°-120°	57.5	0.7
120°-130°	37.3	0.4
130°-140°	22.1	0.3
140°-150°	12.5	0.1
150°-160°	7.3	0.1
160°-170°	3.0	0.0
170°-180°	0.8	0.0
0°-30°	2202.2	25.8
0°-40°	3581.9	42.0
0°-60°	6297.4	73.8
0°-90°	8274.9	96.9
90°-120°	178.0	2.1
90°-150°	249.9	2.9
90°-180°	261.0	3.1
0°-180°	8536.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2872	2872	2872	2872	2872	
5°	2838	2882	2857	2865	2838	269
15°	2704	2782	2761	2727	2704	762
25°	2454	2571	2547	2476	2454	1131
35°	2129	2270	2251	2140	2129	1333
45°	1767	1892	1884	1779	1767	1364
55°	1376	1505	1498	1378	1376	1229
65°	952	1089	1099	962	952	944
75°	537	667	676	538	537	570
85°	194	276	295	199	194	189
90°	43	154	174	34	43	44
95°	38	40	45	7	38	32
105°	80	51	54	62	80	72
115°	56	67	80	52	56	55
125°	20	53	49	55	20	21
135°	14	46	19	41	14	11
145°	8	29	7	28	8	6
155°	8	24	8	23	8	4
165°	7	11	7	12	7	2
175°	8	8	7	10	8	1
180°	8	8	8	8	8	



TEST NUMBER: P855689

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5
5°	2838.2	2833.4	2841.3	2841.3	2882.4	2864.9	2868.4	2869.3	2856.6	2847.0	2856.2
10°	2784.8	2778.3	2791.4	2790.1	2847.4	2833.8	2836.9	2835.2	2822.5	2812.4	2822.9
15°	2703.9	2697.4	2714.9	2710.0	2781.8	2769.5	2772.2	2771.7	2760.8	2749.4	2759.9
20°	2591.9	2591.1	2606.8	2604.6	2687.7	2677.2	2681.6	2682.9	2662.8	2658.4	2668.0
25°	2453.7	2464.6	2474.3	2471.2	2571.4	2561.7	2567.9	2567.4	2547.3	2549.1	2550.4
30°	2299.7	2315.0	2327.3	2318.1	2426.6	2425.3	2429.6	2426.1	2410.8	2414.8	2411.7
35°	2129.1	2146.2	2157.5	2147.9	2269.5	2265.6	2270.4	2270.4	2251.1	2250.3	2257.7
40°	1951.5	1964.2	1975.6	1969.9	2087.1	2090.2	2102.4	2093.2	2070.9	2081.0	2084.5
45°	1767.3	1776.9	1780.9	1775.2	1892.4	1903.8	1916.5	1907.3	1883.7	1896.8	1899.0
50°	1574.4	1581.4	1586.7	1580.5	1696.9	1715.3	1725.8	1716.6	1697.3	1704.8	1707.0
55°	1375.8	1374.0	1389.4	1388.9	1505.3	1514.9	1530.2	1524.5	1497.8	1506.2	1518.4
60°	1167.1	1171.5	1189.4	1180.3	1300.1	1313.2	1332.9	1322.9	1297.9	1312.4	1317.2
65°	951.5	969.8	983.4	969.8	1089.3	1116.8	1125.6	1123.4	1099.3	1111.1	1115.1
70°	743.7	762.5	776.9	755.9	880.6	904.7	918.7	913.0	889.3	902.9	915.6
75°	536.8	559.1	570.0	553.8	667.1	692.9	712.6	701.7	675.9	700.8	704.7
80°	343.8	366.2	375.3	359.6	466.8	495.2	507.0	494.3	484.7	500.4	501.8
85°	193.8	214.8	214.4	202.5	275.6	307.1	321.5	308.4	295.3	315.4	318.9
90°	42.9	45.5	44.2	36.7	154.4	164.0	168.0	177.6	174.5	175.4	175.4
95°	38.1	35.9	28.4	25.8	40.2	38.5	45.1	45.1	45.1	43.7	39.4
100°	38.5	45.5	61.2	40.2	9.2	31.1	33.7	40.2	42.0	38.1	34.6
105°	80.5	75.7	65.6	49.4	51.2	52.5	68.2	69.6	54.2	66.1	64.7
110°	72.2	67.8	52.9	51.6	62.1	65.6	76.6	89.7	87.1	82.7	65.2
115°	56.4	54.7	40.2	49.9	67.4	58.6	70.9	77.9	80.5	77.4	63.0
120°	34.1	35.9	38.5	50.3	57.3	50.7	55.1	65.2	63.9	65.6	50.3
125°	20.1	28.4	35.0	46.4	53.4	45.1	44.2	46.8	48.6	45.1	42.4
130°	16.6	25.8	28.9	42.0	52.1	42.4	39.4	31.1	28.0	32.8	36.3
135°	14.4	22.7	23.6	34.6	45.9	38.9	26.7	25.4	19.2	28.0	25.8
140°	10.9	16.6	20.6	25.8	36.7	30.6	21.9	19.2	15.7	19.2	22.3
145°	7.9	14.9	19.2	24.1	29.3	25.4	21.9	13.1	7.0	15.7	22.3
150°	8.3	14.0	17.5	23.2	25.8	23.6	19.7	11.8	7.0	14.0	21.4
155°	7.9	12.2	15.3	19.7	24.1	21.9	17.5	11.4	7.9	12.7	17.5
160°	7.4	10.1	12.7	14.9	19.2	15.3	13.6	9.6	7.4	10.9	14.0
165°	7.4	8.7	10.9	9.6	11.4	10.9	10.9	8.7	7.4	9.6	12.2
170°	7.4	8.3	9.2	7.9	9.6	8.3	8.7	7.4	7.4	8.3	10.5
175°	8.3	7.9	8.3	8.7	8.3	8.3	7.4	7.4	7.4	7.4	8.3
180°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2



TEST NUMBER: P855689

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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2872.5	2872.5	2872.5	2872.5	2872.5	2872.5
5°	2861.0	2864.9	2847.0	2851.3	2850.0	2838.2
10°	2822.0	2809.8	2791.4	2801.0	2796.7	2784.8
15°	2755.5	2726.7	2713.1	2719.7	2717.5	2703.9
20°	2662.8	2607.7	2605.1	2615.1	2610.3	2591.9
25°	2548.6	2476.0	2472.1	2483.0	2482.6	2453.7
30°	2408.2	2314.6	2325.5	2329.9	2331.2	2299.7
35°	2247.2	2140.5	2156.7	2160.2	2158.0	2129.1
40°	2074.0	1959.4	1972.1	1983.4	1972.1	1951.5
45°	1887.6	1778.7	1779.1	1790.1	1783.5	1767.3
50°	1696.5	1584.9	1587.5	1587.5	1587.5	1574.4
55°	1501.3	1378.4	1388.5	1395.5	1390.2	1375.8
60°	1307.1	1169.3	1178.9	1195.1	1181.1	1167.1
65°	1103.7	962.4	964.2	987.8	977.3	951.5
70°	894.6	752.9	769.5	776.5	762.0	743.7
75°	684.2	538.1	564.8	576.1	553.4	536.8
80°	486.5	346.5	371.4	379.7	361.3	343.8
85°	300.5	198.6	213.0	219.2	207.4	193.8
90°	161.4	33.7	40.2	45.1	45.1	42.9
95°	37.2	7.0	31.5	28.9	36.3	38.1
100°	33.7	51.2	60.8	62.1	41.1	38.5
105°	47.2	61.7	47.7	69.6	73.1	80.5
110°	46.4	56.4	40.2	60.4	68.2	72.2
115°	40.7	52.5	45.1	46.4	52.5	56.4
120°	47.2	59.5	45.1	36.7	33.7	34.1
125°	47.7	54.7	38.9	34.1	24.5	20.1
130°	45.5	47.7	34.1	29.3	21.4	16.6
135°	39.4	41.1	27.1	21.9	19.2	14.4
140°	30.6	31.1	24.1	21.9	12.2	10.9
145°	24.5	28.0	24.9	20.1	11.4	7.9
150°	24.1	27.6	22.7	17.9	10.9	8.3
155°	23.6	22.7	18.4	14.4	10.1	7.9
160°	14.4	13.6	15.3	12.7	8.7	7.4
165°	11.8	11.8	13.1	12.7	8.3	7.4
170°	11.4	10.1	10.5	8.7	8.3	7.4
175°	7.9	9.6	8.3	7.9	8.7	8.3
180°	8.2	8.2	8.2	8.2	8.2	8.2



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)