

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: P855710

Luminaire Tested: **18SFS-L3C4-UNV-MED-5000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855710
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-UNV-MED-5000K
Description: 1x8 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

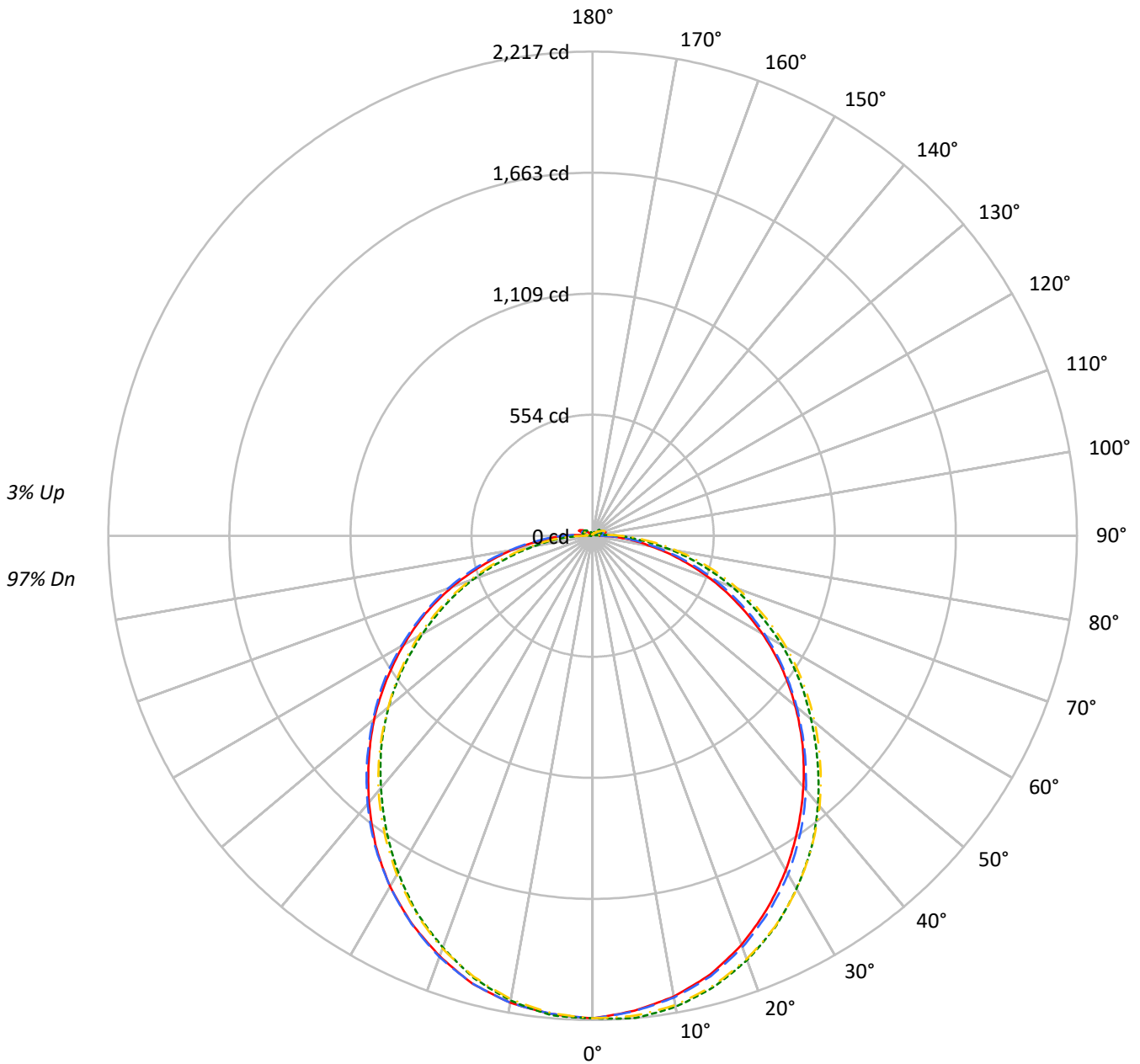
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6565.0 lumens
Efficiency: N/A
Efficacy: 145.9 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: P855710
CATALOG NUMBER: 18SFS-L3C4-UNV-MED-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P855710

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-5000K

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°	3315	3315	3315	3315
5°	3288	3339	3309	3319
10°	3264	3337	3308	3293
15°	3231	3324	3299	3258
20°	3183	3301	3270	3203
25°	3125	3274	3244	3153
30°	3065	3234	3213	3084
35°	3000	3198	3172	3016
40°	2940	3144	3120	2952
45°	2884	3089	3074	2903
50°	2827	3047	3047	2846
55°	2768	3029	3014	2773
60°	2694	3001	2996	2699
65°	2598	2974	3002	2628
70°	2510	2972	3001	2540
75°	2393	2975	3014	2399
80°	2285	3102	3222	2303
85°	2565	3650	3910	2629



TEST NUMBER: P855710

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.2
10°-20°	594.0	9.0
20°-30°	891.1	13.6
30°-40°	1061.1	16.2
40°-50°	1092.0	16.6
50°-60°	996.5	15.2
60°-70°	792.3	12.1
70°-80°	509.4	7.8
80°-90°	219.2	3.3
90°-100°	45.7	0.7
100°-110°	47.0	0.7
110°-120°	44.2	0.7
120°-130°	28.7	0.4
130°-140°	17.0	0.3
140°-150°	9.6	0.1
150°-160°	5.6	0.1
160°-170°	2.3	0.0
170°-180°	0.6	0.0
0°-30°	1693.7	25.8
0°-40°	2754.8	42.0
0°-60°	4843.3	73.8
0°-90°	6364.2	96.9
90°-120°	136.9	2.1
90°-150°	192.2	2.9
90°-180°	201.0	3.1
0°-180°	6565.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2209	2209	2209	2209	2209	
5°	2183	2217	2197	2203	2183	207
15°	2080	2140	2123	2097	2080	586
25°	1887	1978	1959	1904	1887	870
35°	1638	1746	1731	1646	1638	1025
45°	1359	1456	1449	1368	1359	1049
55°	1058	1158	1152	1060	1058	945
65°	732	838	846	740	732	726
75°	413	513	520	414	413	439
85°	149	212	227	153	149	145
90°	33	119	134	26	33	33
95°	29	31	35	5	29	25
105°	62	39	42	47	62	55
115°	43	52	62	40	43	42
125°	16	41	37	42	16	16
135°	11	35	15	32	11	8
145°	6	22	5	22	6	4
155°	6	18	6	18	6	3
165°	6	9	6	9	6	2
175°	6	6	6	7	6	1
180°	6	6	6	6	6	



TEST NUMBER: P855710

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
5°	2182.9	2179.2	2185.2	2185.2	2216.8	2203.4	2206.1	2206.7	2197.0	2189.6	2196.7
10°	2141.8	2136.8	2146.9	2145.8	2189.9	2179.5	2181.9	2180.5	2170.7	2163.0	2171.1
15°	2079.6	2074.5	2088.0	2084.3	2139.5	2130.0	2132.1	2131.7	2123.3	2114.6	2122.6
20°	1993.4	1992.8	2004.9	2003.2	2067.1	2059.0	2062.4	2063.4	2047.9	2044.6	2052.0
25°	1887.1	1895.5	1902.9	1900.6	1977.6	1970.2	1974.9	1974.6	1959.1	1960.5	1961.5
30°	1768.7	1780.5	1789.9	1782.8	1866.3	1865.3	1868.6	1865.9	1854.2	1857.2	1854.8
35°	1637.5	1650.6	1659.3	1651.9	1745.5	1742.5	1746.2	1746.2	1731.3	1730.7	1736.4
40°	1500.9	1510.6	1519.4	1515.0	1605.2	1607.5	1617.0	1609.9	1592.7	1600.5	1603.2
45°	1359.2	1366.6	1369.7	1365.3	1455.5	1464.2	1474.0	1466.9	1448.7	1458.8	1460.5
50°	1210.9	1216.3	1220.3	1215.6	1305.1	1319.2	1327.3	1320.2	1305.4	1311.1	1312.8
55°	1058.1	1056.8	1068.6	1068.2	1157.7	1165.1	1176.9	1172.5	1152.0	1158.4	1167.8
60°	897.6	901.0	914.8	907.7	999.9	1010.0	1025.2	1017.4	998.2	1009.3	1013.0
65°	731.8	745.9	756.3	745.9	837.7	858.9	865.7	864.0	845.5	854.6	857.6
70°	572.0	586.4	597.5	581.4	677.3	695.8	706.5	702.2	684.0	694.4	704.2
75°	412.8	430.0	438.4	425.9	513.1	532.9	548.1	539.7	519.8	539.0	542.0
80°	264.4	281.6	288.7	276.6	359.0	380.9	389.9	380.2	372.8	384.9	385.9
85°	149.0	165.2	164.9	155.8	212.0	236.2	247.3	237.2	227.1	242.6	245.3
90°	33.0	35.0	34.0	28.3	118.8	126.2	129.2	136.6	134.2	134.9	134.9
95°	29.3	27.6	21.9	19.8	31.0	29.6	34.7	34.7	34.7	33.6	30.3
100°	29.6	35.0	47.1	31.0	7.1	23.9	25.9	31.0	32.3	29.3	26.6
105°	61.9	58.2	50.5	38.0	39.4	40.4	52.5	53.5	41.7	50.8	49.8
110°	55.5	52.1	40.7	39.7	47.8	50.5	58.9	69.0	67.0	63.6	50.1
115°	43.4	42.1	31.0	38.4	51.8	45.1	54.5	59.9	61.9	59.6	48.4
120°	26.2	27.6	29.6	38.7	44.1	39.0	42.4	50.1	49.1	50.5	38.7
125°	15.5	21.9	26.9	35.7	41.0	34.7	34.0	36.0	37.3	34.7	32.6
130°	12.8	19.8	22.2	32.3	40.0	32.6	30.3	23.9	21.5	25.2	27.9
135°	11.1	17.5	18.2	26.6	35.3	29.9	20.5	19.5	14.8	21.5	19.8
140°	8.4	12.8	15.8	19.8	28.3	23.6	16.8	14.8	12.1	14.8	17.2
145°	6.1	11.4	14.8	18.5	22.5	19.5	16.8	10.1	5.4	12.1	17.2
150°	6.4	10.8	13.5	17.8	19.8	18.2	15.1	9.1	5.4	10.8	16.5
155°	6.1	9.4	11.8	15.1	18.5	16.8	13.5	8.7	6.1	9.8	13.5
160°	5.7	7.7	9.8	11.4	14.8	11.8	10.4	7.4	5.7	8.4	10.8
165°	5.7	6.7	8.4	7.4	8.7	8.4	8.4	6.7	5.7	7.4	9.4
170°	5.7	6.4	7.1	6.1	7.4	6.4	6.7	5.7	5.7	6.4	8.1
175°	6.4	6.1	6.4	6.7	6.4	6.4	5.7	5.7	5.7	5.7	6.4
180°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3



TEST NUMBER: P855710

CATALOG NUMBER: 18SFS-L3C4-UNV-MED-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
5°	2200.4	2203.4	2189.6	2193.0	2191.9	2182.9
10°	2170.4	2161.0	2146.9	2154.3	2150.9	2141.8
15°	2119.3	2097.1	2086.6	2091.7	2090.0	2079.6
20°	2047.9	2005.6	2003.5	2011.3	2007.6	1993.4
25°	1960.1	1904.3	1901.3	1909.7	1909.3	1887.1
30°	1852.1	1780.1	1788.5	1791.9	1792.9	1768.7
35°	1728.3	1646.2	1658.7	1661.4	1659.7	1637.5
40°	1595.1	1506.9	1516.7	1525.4	1516.7	1500.9
45°	1451.8	1368.0	1368.3	1376.7	1371.7	1359.2
50°	1304.7	1218.9	1221.0	1221.0	1221.0	1210.9
55°	1154.7	1060.1	1067.9	1073.3	1069.2	1058.1
60°	1005.3	899.3	906.7	919.2	908.4	897.6
65°	848.9	740.2	741.5	759.7	751.6	731.8
70°	688.0	579.0	591.8	597.2	586.1	572.0
75°	526.2	413.8	434.4	443.1	425.6	412.8
80°	374.1	266.5	285.6	292.0	277.9	264.4
85°	231.1	152.7	163.8	168.6	159.5	149.0
90°	124.1	25.9	31.0	34.7	34.7	33.0
95°	28.6	5.4	24.2	22.2	27.9	29.3
100°	25.9	39.4	46.8	47.8	31.6	29.6
105°	36.3	47.4	36.7	53.5	56.2	61.9
110°	35.7	43.4	31.0	46.4	52.5	55.5
115°	31.3	40.4	34.7	35.7	40.4	43.4
120°	36.3	45.8	34.7	28.3	25.9	26.2
125°	36.7	42.1	29.9	26.2	18.8	15.5
130°	35.0	36.7	26.2	22.5	16.5	12.8
135°	30.3	31.6	20.9	16.8	14.8	11.1
140°	23.6	23.9	18.5	16.8	9.4	8.4
145°	18.8	21.5	19.2	15.5	8.7	6.1
150°	18.5	21.2	17.5	13.8	8.4	6.4
155°	18.2	17.5	14.1	11.1	7.7	6.1
160°	11.1	10.4	11.8	9.8	6.7	5.7
165°	9.1	9.1	10.1	9.8	6.4	5.7
170°	8.7	7.7	8.1	6.7	6.4	5.7
175°	6.1	7.4	6.4	6.1	6.7	6.4
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)