

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: P855678

Luminaire Tested: **14SFS-L3C4-UNV-HIGH-5000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( BL231218003-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14SFS-L3C4-UNV-HIGH-5000K  
Description: 1x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 5000K CCT Settings  
Light Source: -  
Ballast/Driver: -

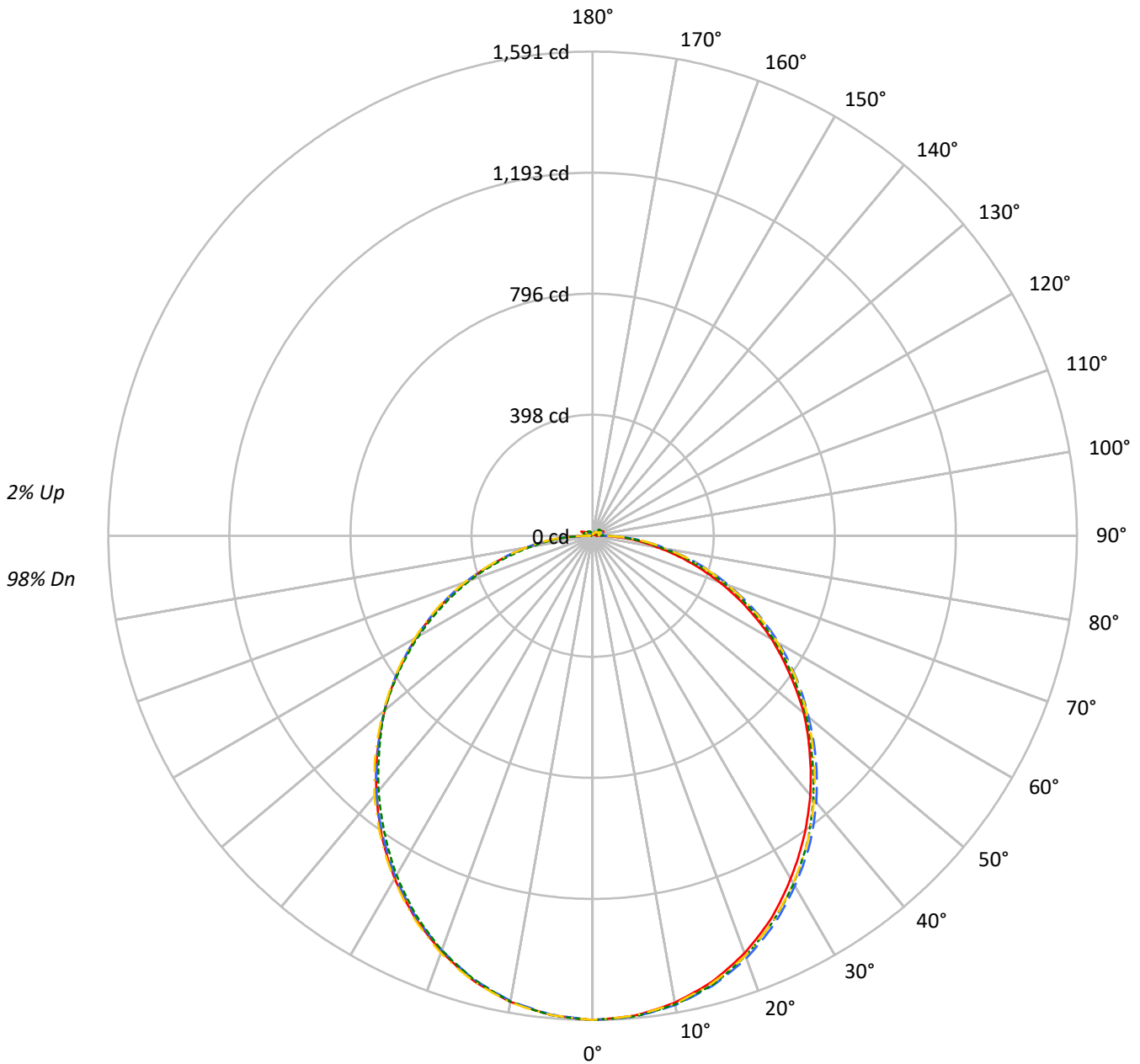
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4640.8 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 0.92' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	110	110	110	105	105	105	100	100	100	98																			
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80																			
2	98	89	82	76	95	87	80	75	83	78	73	79	75	71	76	72	69	67																			
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56																			
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	48																			
5	75	62	53	46	72	60	52	45	58	50	45	56	49	44	54	48	43	41																			
6	69	56	46	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36																			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28																			
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4774	4774	4774	4774
5°	4769	4776	4760	4764
10°	4747	4765	4739	4737
15°	4714	4743	4702	4689
20°	4661	4692	4642	4629
25°	4598	4635	4580	4551
30°	4510	4577	4508	4465
35°	4433	4506	4422	4367
40°	4358	4420	4330	4287
45°	4281	4325	4243	4204
50°	4230	4269	4161	4166
55°	4130	4196	4083	4062
60°	4076	4140	4016	3966
65°	3975	4092	3956	3849
70°	3876	4051	3861	3766
75°	3759	4006	3745	3597
80°	3693	4010	3780	3483
85°	4270	4621	4156	3908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	3.2
10°-20°	427.8	9.2
20°-30°	640.7	13.8
30°-40°	761.4	16.4
40°-50°	781.6	16.8
50°-60°	711.2	15.3
60°-70°	562.2	12.1
70°-80°	356.7	7.7
80°-90°	139.8	3.0
90°-100°	15.3	0.3
100°-110°	27.9	0.6
110°-120°	26.1	0.6
120°-130°	15.7	0.3
130°-140°	10.5	0.2
140°-150°	7.2	0.2
150°-160°	4.2	0.1
160°-170°	1.7	0.0
170°-180°	0.5	0.0
0°-30°	1218.7	26.3
0°-40°	1980.1	42.7
0°-60°	3473.0	74.8
0°-90°	4531.7	97.6
90°-120°	69.4	1.5
90°-150°	102.8	2.2
90°-180°	109.0	2.3
0°-180°	4640.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1591	1591	1591	1591	1591	
5°	1583	1585	1580	1581	1583	150
15°	1517	1527	1513	1509	1517	428
25°	1388	1400	1383	1374	1388	639
35°	1210	1230	1207	1192	1210	757
45°	1009	1019	1000	990	1009	780
55°	789	802	780	776	789	708
65°	560	576	557	542	560	555
75°	324	346	323	310	324	344
85°	124	134	121	114	124	118
90°	15	45	10	9	15	23
95°	12	14	5	4	12	10
105°	34	32	30	31	34	30
115°	36	34	30	26	36	33
125°	10	30	9	23	10	11
135°	4	26	3	19	4	3
145°	4	18	4	15	4	3
155°	4	15	4	14	4	2
165°	4	7	4	7	4	1
175°	5	6	4	6	5	0
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8
5°	1582.9	1577.1	1585.6	1589.4	1585.4	1579.1	1582.4	1584.6	1579.9	1573.6	1578.9
10°	1557.6	1555.6	1565.6	1569.6	1563.6	1558.9	1560.6	1562.4	1555.1	1547.4	1552.1
15°	1517.1	1517.1	1529.6	1532.4	1526.6	1519.9	1521.6	1521.9	1513.4	1505.1	1508.4
20°	1459.4	1463.7	1477.6	1481.4	1469.2	1466.7	1468.4	1465.2	1453.4	1449.9	1449.2
25°	1388.4	1394.7	1409.7	1415.2	1399.7	1400.4	1399.4	1394.9	1383.2	1378.9	1378.7
30°	1301.4	1317.7	1329.2	1335.2	1320.7	1322.7	1318.4	1315.2	1300.7	1295.2	1295.2
35°	1209.9	1224.2	1241.7	1243.9	1229.9	1229.4	1230.4	1222.7	1206.9	1201.9	1201.9
40°	1112.4	1127.4	1143.4	1147.4	1128.2	1129.9	1131.9	1120.9	1105.2	1103.9	1105.7
45°	1008.7	1021.9	1037.2	1040.4	1018.9	1028.4	1027.9	1015.7	999.7	998.4	997.2
50°	905.9	915.4	925.9	931.9	914.4	919.4	920.7	912.2	891.2	893.4	893.4
55°	789.4	805.4	817.4	822.2	801.9	807.4	813.9	801.9	780.4	780.7	782.7
60°	679.0	690.7	706.5	713.0	689.7	698.7	700.7	689.2	669.0	669.2	670.0
65°	559.7	572.5	592.5	596.0	576.2	586.0	586.2	578.0	557.0	556.2	559.7
70°	441.7	461.0	475.5	476.7	461.7	468.2	470.5	464.5	440.0	442.7	443.0
75°	324.2	345.7	362.7	360.2	345.5	356.5	357.2	343.5	323.0	328.5	327.5
80°	213.7	235.2	246.7	246.2	232.0	245.0	246.0	232.0	218.7	220.5	218.7
85°	124.0	138.5	150.7	151.2	134.2	144.5	146.7	137.5	120.7	126.2	127.7
90°	15.2	26.2	38.0	53.5	45.0	42.7	39.7	21.5	10.5	9.5	9.2
95°	12.0	11.5	10.0	13.5	13.7	11.5	7.0	6.0	5.2	6.2	6.2
100°	10.5	10.2	16.0	13.7	10.0	18.2	9.7	5.2	4.7	6.2	26.0
105°	33.5	32.5	34.2	27.2	32.5	28.0	29.0	28.5	29.7	31.7	31.2
110°	38.0	35.2	33.7	30.5	34.7	27.2	29.2	33.0	39.7	31.5	24.2
115°	35.7	33.5	26.0	30.0	33.5	28.2	27.2	28.0	29.5	24.5	15.0
120°	23.5	22.7	19.2	27.7	31.5	27.0	19.5	22.7	21.2	18.5	11.2
125°	10.5	11.7	19.2	27.0	30.5	25.2	19.7	12.0	8.7	11.0	11.2
130°	4.0	11.0	18.2	26.0	29.5	24.2	19.0	9.7	3.5	10.5	11.5
135°	4.3	10.7	16.2	24.0	26.2	21.0	15.7	9.5	3.2	10.0	10.0
140°	4.0	9.7	13.7	18.2	21.5	17.7	14.0	8.7	3.5	9.2	13.5
145°	4.3	9.0	12.2	15.2	18.5	15.5	14.2	8.0	3.7	8.2	14.5
150°	4.3	8.5	11.0	14.5	15.7	13.5	12.5	7.2	3.7	7.5	12.7
155°	4.0	7.5	10.2	12.7	14.7	12.0	10.2	7.0	3.7	6.5	9.7
160°	4.3	6.2	8.0	10.0	7.7	9.5	7.5	5.7	3.5	5.5	7.7
165°	4.3	5.2	6.0	6.5	6.7	5.2	5.7	4.7	4.0	4.7	6.5
170°	3.7	4.7	5.0	5.2	7.0	5.0	5.0	4.3	3.7	4.3	5.2
175°	4.7	5.0	4.7	5.5	5.7	5.2	4.7	4.3	3.7	3.5	4.0
180°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1590.8	1590.8	1590.8	1590.8	1590.8	1590.8
5°	1581.6	1581.4	1574.9	1580.4	1583.4	1582.9
10°	1553.1	1554.4	1547.9	1556.6	1559.9	1557.6
15°	1507.9	1509.1	1505.4	1515.1	1519.1	1517.1
20°	1450.4	1449.4	1448.9	1459.4	1462.4	1459.4
25°	1377.4	1374.2	1377.4	1387.9	1392.4	1388.4
30°	1291.9	1288.4	1294.9	1304.9	1312.2	1301.4
35°	1195.9	1191.9	1204.7	1212.4	1218.4	1209.9
40°	1096.4	1094.2	1104.2	1115.2	1115.9	1112.4
45°	990.4	990.4	994.7	1008.4	1007.4	1008.7
50°	883.9	892.2	889.2	896.9	902.4	905.9
55°	777.4	776.4	782.7	785.9	792.2	789.4
60°	664.0	660.7	668.0	675.2	678.0	679.0
65°	549.2	542.0	549.7	563.2	561.0	559.7
70°	431.2	429.2	434.5	446.0	445.0	441.7
75°	318.7	310.2	323.5	330.2	328.7	324.2
80°	209.0	201.5	214.5	219.7	219.2	213.7
85°	119.2	113.5	122.0	128.7	129.0	124.0
90°	8.5	8.7	10.2	13.0	14.0	15.2
95°	12.7	4.0	9.7	8.2	11.2	12.0
100°	25.2	21.0	23.7	23.2	10.7	10.5
105°	25.0	30.7	26.2	32.5	33.2	33.5
110°	21.5	27.5	22.5	27.7	32.0	38.0
115°	19.5	25.5	21.2	20.2	29.2	35.7
120°	19.2	24.5	19.5	13.0	20.2	23.5
125°	18.2	23.0	18.2	12.5	9.7	10.5
130°	16.0	21.5	16.0	11.2	8.7	4.0
135°	14.2	18.7	12.5	10.0	8.2	4.3
140°	11.7	18.2	11.2	11.5	7.7	4.0
145°	13.7	15.2	14.0	11.5	7.5	4.3
150°	14.0	15.0	13.7	10.7	6.7	4.3
155°	11.2	13.5	9.0	8.7	5.7	4.0
160°	8.5	7.5	7.7	7.5	5.5	4.3
165°	6.7	6.7	6.5	6.5	4.7	4.3
170°	6.2	6.5	6.2	5.2	4.5	3.7
175°	4.5	5.5	4.7	4.7	4.7	4.7
180°	4.6	4.6	4.6	4.6	4.6	4.6



Report Generated By 670246072 / DESKTOP-50001EG







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









(END OF REPORT)