

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: P855676

Luminaire Tested: **14SFS-L3C4-UNV-HIGH-3500K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855676  
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-3500K  
Description: 1x4 Surround Frame Selectable - Architectural Slim LED Frame with,  
HIGH Lumen and 3500K CCT Settings  
Light Source: -  
Ballast/Driver: -

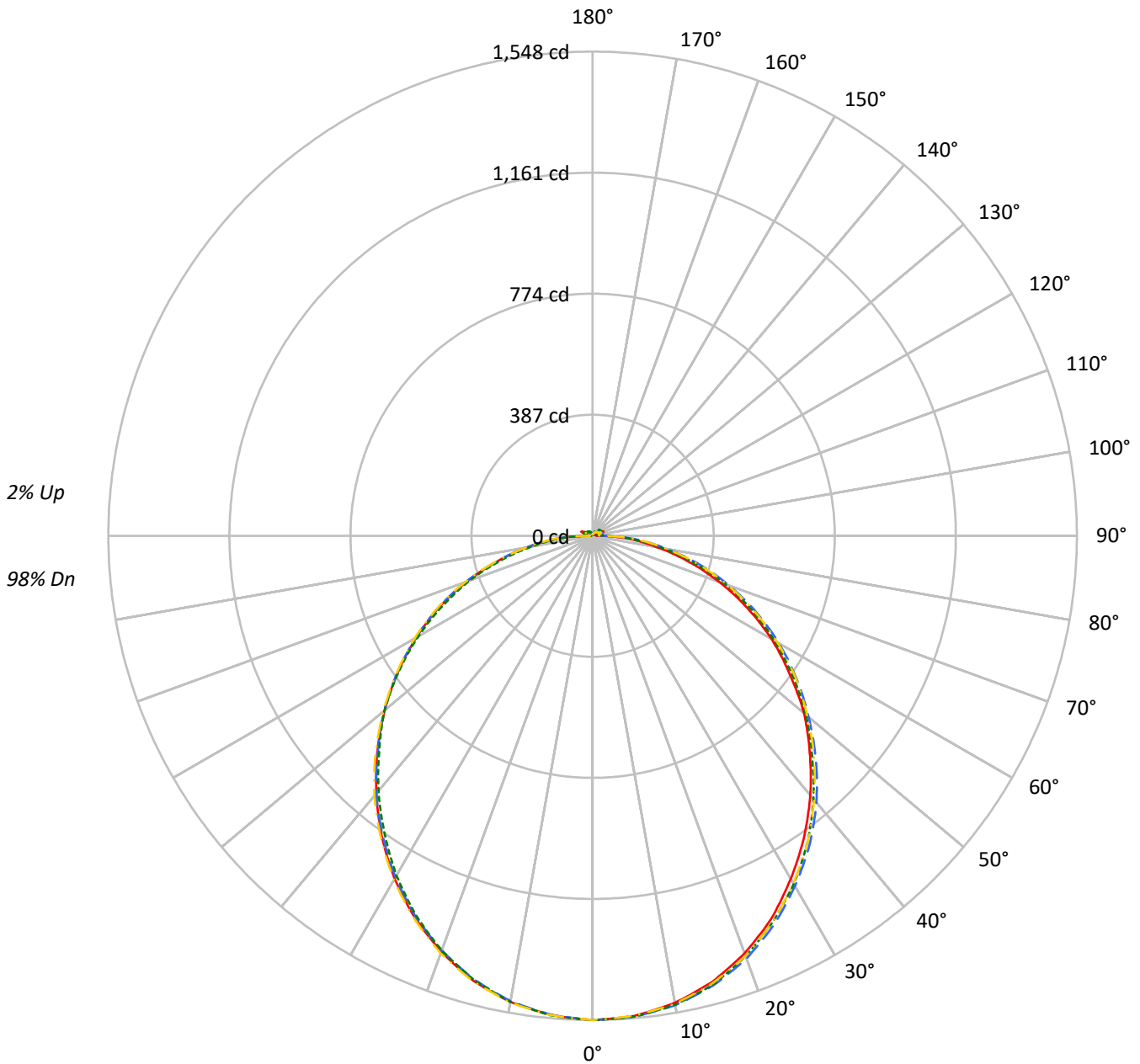
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4517.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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°	4647	4647	4647	4647
5°	4641	4649	4633	4637
10°	4620	4638	4613	4611
15°	4588	4617	4577	4564
20°	4536	4567	4518	4506
25°	4475	4511	4458	4429
30°	4389	4455	4387	4346
35°	4314	4386	4304	4250
40°	4242	4302	4214	4172
45°	4167	4209	4130	4092
50°	4117	4155	4050	4055
55°	4021	4084	3975	3954
60°	3966	4029	3908	3860
65°	3869	3982	3850	3746
70°	3772	3943	3757	3666
75°	3660	3898	3645	3501
80°	3595	3903	3680	3389
85°	4156	4501	4046	3805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.2	3.2
10°-20°	416.4	9.2
20°-30°	623.6	13.8
30°-40°	741.0	16.4
40°-50°	760.8	16.8
50°-60°	692.2	15.3
60°-70°	547.2	12.1
70°-80°	347.2	7.7
80°-90°	136.1	3.0
90°-100°	14.9	0.3
100°-110°	27.2	0.6
110°-120°	25.5	0.6
120°-130°	15.3	0.3
130°-140°	10.2	0.2
140°-150°	7.1	0.2
150°-160°	4.1	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
0°-30°	1186.2	26.3
0°-40°	1927.2	42.7
0°-60°	3380.2	74.8
0°-90°	4410.6	97.6
90°-120°	67.6	1.5
90°-150°	100.2	2.2
90°-180°	106.0	2.3
0°-180°	4517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1548	1548	1548	1548	1548	
5°	1541	1543	1538	1539	1541	146
15°	1477	1486	1473	1469	1477	416
25°	1351	1362	1346	1337	1351	622
35°	1178	1197	1175	1160	1178	737
45°	982	992	973	964	982	759
55°	768	780	760	756	768	689
65°	545	561	542	528	545	540
75°	316	336	314	302	316	335
85°	121	131	118	110	121	115
90°	15	44	10	8	15	22
95°	12	13	5	4	12	10
105°	33	32	29	30	33	30
115°	35	33	29	25	35	32
125°	10	30	8	22	10	11
135°	4	26	3	18	4	3
145°	4	18	4	15	4	3
155°	4	14	4	13	4	2
165°	4	7	4	7	4	1
175°	5	6	4	5	5	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°	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3
5°	1540.6	1535.0	1543.3	1546.9	1543.0	1537.0	1540.1	1542.3	1537.7	1531.6	1536.7
10°	1516.0	1514.1	1523.8	1527.7	1521.9	1517.2	1518.9	1520.6	1513.6	1506.1	1510.7
15°	1476.6	1476.6	1488.8	1491.5	1485.9	1479.3	1481.0	1481.2	1473.0	1464.9	1468.1
20°	1420.4	1424.5	1438.2	1441.8	1429.9	1427.5	1429.2	1426.0	1414.6	1411.2	1410.4
25°	1351.3	1357.4	1372.0	1377.3	1362.3	1363.0	1362.0	1357.6	1346.2	1342.1	1341.8
30°	1266.6	1282.5	1293.6	1299.5	1285.4	1287.3	1283.2	1280.0	1265.9	1260.6	1260.6
35°	1177.6	1191.5	1208.5	1210.7	1197.1	1196.6	1197.5	1190.0	1174.7	1169.8	1169.8
40°	1082.7	1097.3	1112.9	1116.8	1098.0	1099.7	1101.7	1091.0	1075.6	1074.4	1076.1
45°	981.7	994.6	1009.5	1012.6	991.7	1001.0	1000.5	988.5	973.0	971.8	970.5
50°	881.7	891.0	901.2	907.0	890.0	894.9	896.1	887.8	867.4	869.6	869.6
55°	768.4	783.9	795.6	800.2	780.5	785.9	792.2	780.5	759.6	759.8	761.8
60°	660.8	672.2	687.6	693.9	671.3	680.0	682.0	670.8	651.1	651.3	652.1
65°	544.8	557.2	576.6	580.0	560.8	570.3	570.5	562.5	542.1	541.4	544.8
70°	429.9	448.7	462.8	464.0	449.4	455.7	457.9	452.1	428.2	430.9	431.1
75°	315.6	336.5	353.0	350.6	336.2	347.0	347.7	334.3	314.3	319.7	318.7
80°	208.0	228.9	240.1	239.7	225.8	238.4	239.4	225.8	212.9	214.6	212.9
85°	120.7	134.8	146.7	147.2	130.7	140.6	142.8	133.8	117.5	122.9	124.3
90°	14.8	25.5	37.0	52.1	43.8	41.6	38.7	20.9	10.2	9.2	9.0
95°	11.7	11.2	9.7	13.1	13.4	11.2	6.8	5.8	5.1	6.1	6.1
100°	10.2	10.0	15.6	13.4	9.7	17.8	9.5	5.1	4.6	6.1	25.3
105°	32.6	31.6	33.3	26.5	31.6	27.2	28.2	27.7	29.0	30.9	30.4
110°	37.0	34.3	32.8	29.7	33.8	26.5	28.5	32.1	38.7	30.7	23.6
115°	34.8	32.6	25.3	29.2	32.6	27.5	26.5	27.2	28.7	23.8	14.6
120°	22.9	22.1	18.7	27.0	30.7	26.3	19.0	22.1	20.7	18.0	10.9
125°	10.2	11.4	18.7	26.3	29.7	24.6	19.2	11.7	8.5	10.7	10.9
130°	3.9	10.7	17.8	25.3	28.7	23.6	18.5	9.5	3.4	10.2	11.2
135°	4.1	10.5	15.8	23.4	25.5	20.4	15.3	9.2	3.2	9.7	9.7
140°	3.9	9.5	13.4	17.8	20.9	17.3	13.6	8.5	3.4	9.0	13.1
145°	4.1	8.8	11.9	14.8	18.0	15.1	13.9	7.8	3.6	8.0	14.1
150°	4.1	8.3	10.7	14.1	15.3	13.1	12.2	7.1	3.6	7.3	12.4
155°	3.9	7.3	10.0	12.4	14.4	11.7	10.0	6.8	3.6	6.3	9.5
160°	4.1	6.1	7.8	9.7	7.5	9.2	7.3	5.6	3.4	5.4	7.5
165°	4.1	5.1	5.8	6.3	6.6	5.1	5.6	4.6	3.9	4.6	6.3
170°	3.6	4.6	4.9	5.1	6.8	4.9	4.9	4.1	3.6	4.1	5.1
175°	4.6	4.9	4.6	5.4	5.6	5.1	4.6	4.1	3.6	3.4	3.9
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°	1548.3	1548.3	1548.3	1548.3	1548.3	1548.3
5°	1539.4	1539.1	1532.8	1538.2	1541.1	1540.6
10°	1511.6	1512.9	1506.5	1515.1	1518.2	1516.0
15°	1467.6	1468.8	1465.2	1474.7	1478.6	1476.6
20°	1411.7	1410.7	1410.2	1420.4	1423.3	1420.4
25°	1340.6	1337.4	1340.6	1350.8	1355.2	1351.3
30°	1257.4	1254.0	1260.3	1270.0	1277.1	1266.6
35°	1164.0	1160.1	1172.5	1180.0	1185.9	1177.6
40°	1067.1	1064.9	1074.7	1085.4	1086.1	1082.7
45°	964.0	964.0	968.1	981.5	980.5	981.7
50°	860.3	868.4	865.4	873.0	878.3	881.7
55°	756.7	755.7	761.8	764.9	771.0	768.4
60°	646.2	643.1	650.1	657.2	659.8	660.8
65°	534.5	527.5	535.0	548.2	546.0	544.8
70°	419.7	417.8	422.9	434.1	433.1	429.9
75°	310.2	301.9	314.8	321.4	319.9	315.6
80°	203.4	196.1	208.8	213.9	213.4	208.0
85°	116.1	110.5	118.7	125.3	125.5	120.7
90°	8.3	8.5	10.0	12.7	13.6	14.8
95°	12.4	3.9	9.5	8.0	10.9	11.7
100°	24.6	20.4	23.1	22.6	10.5	10.2
105°	24.3	29.9	25.5	31.6	32.4	32.6
110°	20.9	26.8	21.9	27.0	31.1	37.0
115°	19.0	24.8	20.7	19.7	28.5	34.8
120°	18.7	23.8	19.0	12.7	19.7	22.9
125°	17.8	22.4	17.8	12.2	9.5	10.2
130°	15.6	20.9	15.6	10.9	8.5	3.9
135°	13.9	18.2	12.2	9.7	8.0	4.1
140°	11.4	17.8	10.9	11.2	7.5	3.9
145°	13.4	14.8	13.6	11.2	7.3	4.1
150°	13.6	14.6	13.4	10.5	6.6	4.1
155°	10.9	13.1	8.8	8.5	5.6	3.9
160°	8.3	7.3	7.5	7.3	5.4	4.1
165°	6.6	6.6	6.3	6.3	4.6	4.1
170°	6.1	6.3	6.1	5.1	4.4	3.6
175°	4.4	5.4	4.6	4.6	4.6	4.6
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)