

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: P855740

Luminaire Tested: **24SFS-L3C4-NUV-LOW-3500K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218008-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SFS-L3C4-NUV-LOW-3500K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

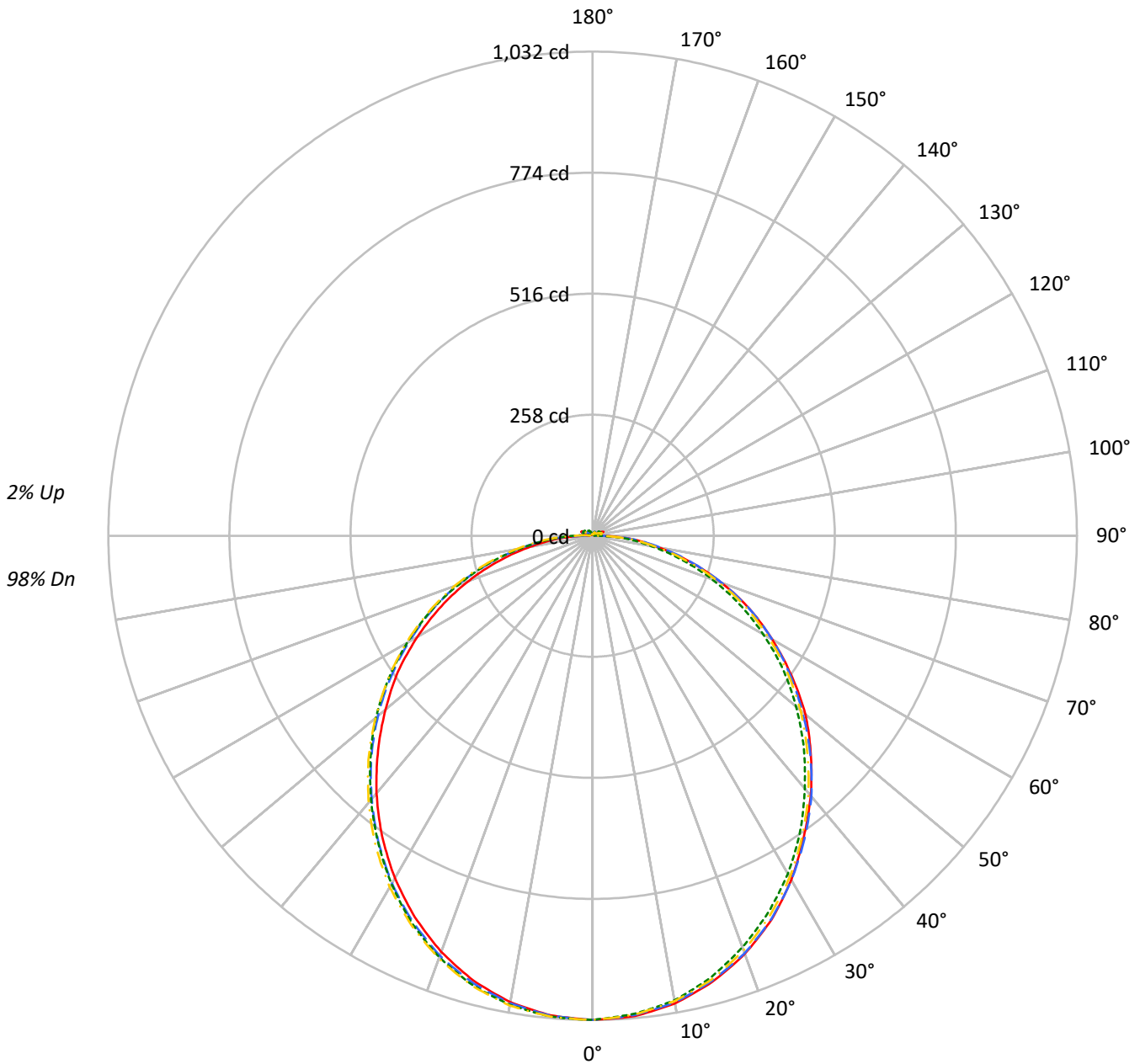
Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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: P855740

CATALOG NUMBER: 24SFS-L3C4-NUV-LOW-3500K

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°	1495	1495	1495	1495
5°	1495	1487	1492	1496
10°	1489	1479	1485	1493
15°	1477	1462	1472	1487
20°	1462	1439	1455	1474
25°	1443	1416	1433	1456
30°	1416	1392	1410	1434
35°	1387	1363	1383	1410
40°	1368	1330	1355	1390
45°	1347	1303	1325	1372
50°	1335	1275	1298	1359
55°	1304	1249	1280	1339
60°	1280	1216	1249	1322
65°	1265	1184	1220	1307
70°	1237	1144	1187	1286
75°	1202	1094	1154	1285
80°	1191	1054	1120	1294
85°	1421	1169	1247	1536



TEST NUMBER: P855740

CATALOG NUMBER: 24SFS-L3C4-NUV-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.2
10°-20°	277.4	9.2
20°-30°	415.6	13.8
30°-40°	493.7	16.4
40°-50°	507.2	16.8
50°-60°	461.4	15.3
60°-70°	364.6	12.1
70°-80°	231.2	7.7
80°-90°	91.4	3.0
90°-100°	10.5	0.3
100°-110°	18.0	0.6
110°-120°	16.8	0.6
120°-130°	10.1	0.3
130°-140°	6.7	0.2
140°-150°	4.7	0.2
150°-160°	2.7	0.1
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	790.4	26.3
0°-40°	1284.1	42.6
0°-60°	2252.8	74.8
0°-90°	2940.0	97.6
90°-120°	45.4	1.5
90°-150°	66.9	2.2
90°-180°	71.0	2.4
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1032	1032	1032	1032	1032	
5°	1028	1023	1026	1029	1028	98
15°	985	974	982	991	985	278
25°	903	886	897	911	903	415
35°	784	771	782	797	784	492
45°	658	636	647	670	658	508
55°	516	495	507	530	516	462
65°	369	345	356	381	369	364
75°	215	195	206	230	215	228
85°	86	70	75	92	86	81
90°	15	5	10	38	15	16
95°	4	2	7	13	4	5
105°	17	20	22	21	17	16
115°	19	17	23	22	19	19
125°	6	16	6	19	6	7
135°	3	12	2	18	3	2
145°	3	10	2	13	3	2
155°	3	9	3	10	3	1
165°	3	4	3	5	3	1
175°	2	3	3	4	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9
5°	1027.8	1022.7	1025.3	1025.3	1022.7	1020.1	1024.4	1025.2	1026.1	1023.4	1026.6
10°	1012.0	1007.4	1009.8	1008.5	1005.4	1002.0	1006.9	1008.8	1009.5	1007.7	1011.9
15°	984.8	981.4	981.9	981.0	974.5	972.9	979.2	981.9	981.6	982.3	986.6
20°	948.4	945.0	947.0	943.2	933.4	936.1	940.5	943.1	943.6	946.5	952.3
25°	902.6	899.7	901.0	897.3	885.8	888.8	893.4	897.9	896.6	901.6	907.6
30°	846.6	846.4	847.2	844.6	831.9	833.8	840.1	843.7	842.7	849.7	855.2
35°	784.3	788.3	787.7	783.1	770.8	773.1	779.7	782.3	781.8	790.2	796.1
40°	723.1	723.4	725.0	717.1	703.1	709.5	715.0	715.8	716.3	725.3	732.3
45°	657.5	654.6	655.7	649.9	635.9	641.0	646.1	648.7	646.6	657.0	667.0
50°	592.2	584.1	583.3	579.4	565.5	570.4	578.0	578.6	575.9	588.4	596.8
55°	516.1	515.5	512.1	509.3	494.6	500.0	505.9	506.6	506.9	514.8	524.9
60°	441.7	441.3	442.2	435.4	419.5	426.8	432.6	432.9	431.0	444.1	451.5
65°	369.0	365.4	368.2	362.2	345.3	352.0	360.2	359.4	355.9	367.7	379.2
70°	291.9	291.4	292.2	284.9	270.1	276.0	284.0	283.7	280.3	294.2	305.8
75°	214.8	219.4	217.8	210.5	195.4	203.3	208.7	207.7	206.1	218.2	227.6
80°	142.8	147.7	148.3	138.9	126.3	132.9	137.8	137.6	134.2	146.7	157.2
85°	85.5	87.4	87.4	80.3	70.3	75.6	81.1	78.5	75.0	86.9	92.9
90°	14.7	6.2	6.0	5.7	5.2	6.6	8.4	9.2	9.6	12.3	15.9
95°	3.7	4.4	4.4	7.4	1.9	6.3	5.0	6.8	7.3	7.0	5.8
100°	3.4	3.9	14.7	15.9	14.9	15.9	17.2	7.0	6.8	6.6	11.8
105°	17.2	19.4	20.2	16.2	20.2	17.3	20.7	21.5	22.5	21.2	22.2
110°	24.6	19.8	15.9	14.2	18.8	15.1	17.3	20.7	25.1	23.3	21.7
115°	18.9	15.5	10.0	12.6	17.3	14.2	12.3	18.6	23.0	21.9	16.2
120°	13.6	12.0	7.1	12.3	16.4	13.4	8.4	13.1	14.4	14.4	12.3
125°	6.5	7.8	7.3	12.0	15.5	12.1	7.9	6.5	5.7	7.1	12.1
130°	2.4	7.3	7.6	10.5	13.6	10.7	7.3	6.0	2.4	6.8	11.2
135°	2.8	7.0	6.6	9.6	12.3	8.3	6.6	5.5	2.4	6.3	9.9
140°	2.4	6.5	9.1	7.9	11.3	7.6	7.8	5.2	2.4	6.0	8.4
145°	2.6	5.8	9.6	8.6	9.7	9.4	7.9	4.9	2.4	5.5	7.6
150°	2.4	5.0	8.3	8.7	10.0	9.4	7.3	4.7	2.6	5.2	6.8
155°	2.6	4.7	6.8	7.8	8.7	7.0	5.5	4.0	2.6	4.7	6.2
160°	2.8	3.9	4.9	5.7	5.2	5.3	4.5	3.4	2.4	4.0	5.3
165°	2.6	3.1	3.6	3.1	4.2	3.2	3.2	2.8	2.6	3.4	4.5
170°	2.6	2.8	2.9	3.1	4.2	3.7	2.9	2.6	2.6	3.1	3.7
175°	2.4	2.6	2.9	3.2	3.2	3.1	2.9	3.1	3.1	3.1	3.2
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



TEST NUMBER: P855740

CATALOG NUMBER: 24SFS-L3C4-NUV-LOW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9
5°	1028.1	1028.6	1025.0	1028.7	1028.1	1027.8
10°	1014.2	1015.1	1012.5	1016.7	1014.2	1012.0
15°	989.5	991.3	988.2	992.9	989.9	984.8
20°	954.6	955.9	955.5	958.6	954.9	948.4
25°	910.5	911.0	912.6	914.9	911.0	902.6
30°	859.1	857.3	861.5	864.6	857.9	846.6
35°	799.8	797.4	801.4	806.3	800.1	784.3
40°	734.9	734.7	741.5	742.2	735.7	723.1
45°	666.5	669.6	673.3	675.5	666.5	657.5
50°	596.8	602.9	602.8	603.9	595.8	592.2
55°	527.0	530.1	532.0	531.8	527.0	516.1
60°	453.8	456.1	460.8	459.8	454.3	441.7
65°	379.7	381.3	384.2	386.0	378.2	369.0
70°	303.4	303.6	309.6	313.0	301.9	291.9
75°	229.7	229.6	235.2	237.7	229.3	214.8
80°	156.2	155.1	164.3	164.3	154.5	142.8
85°	91.3	92.4	99.6	101.5	94.2	85.5
90°	26.1	37.6	39.5	36.4	25.3	14.7
95°	8.3	13.1	8.4	5.2	4.5	3.7
100°	9.2	5.2	11.5	5.7	3.6	3.4
105°	18.0	20.6	18.6	18.1	18.0	17.2
110°	19.6	21.7	17.0	19.3	21.0	24.6
115°	18.9	21.5	17.5	17.5	18.0	18.9
120°	18.1	19.6	16.7	12.6	15.1	13.6
125°	17.5	19.1	15.9	12.5	7.8	6.5
130°	16.7	18.5	15.1	11.7	6.0	2.4
135°	14.2	17.8	12.6	9.7	6.0	2.8
140°	11.3	14.1	11.5	8.6	5.5	2.4
145°	10.2	12.6	9.7	8.7	5.2	2.6
150°	9.2	10.8	8.6	7.8	4.7	2.4
155°	7.1	9.9	7.3	6.3	4.4	2.6
160°	5.5	5.5	5.7	5.3	3.9	2.8
165°	4.7	4.9	4.7	4.4	3.4	2.6
170°	4.4	4.9	4.2	3.6	2.9	2.6
175°	3.2	4.2	3.2	2.8	2.8	2.4
180°	2.9	2.9	2.9	2.9	2.9	2.9



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)