

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: P855751

Luminaire Tested: **24SFS-L3C4-UNV-LOW-3000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855751
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-UNV-LOW-3000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
LOW Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

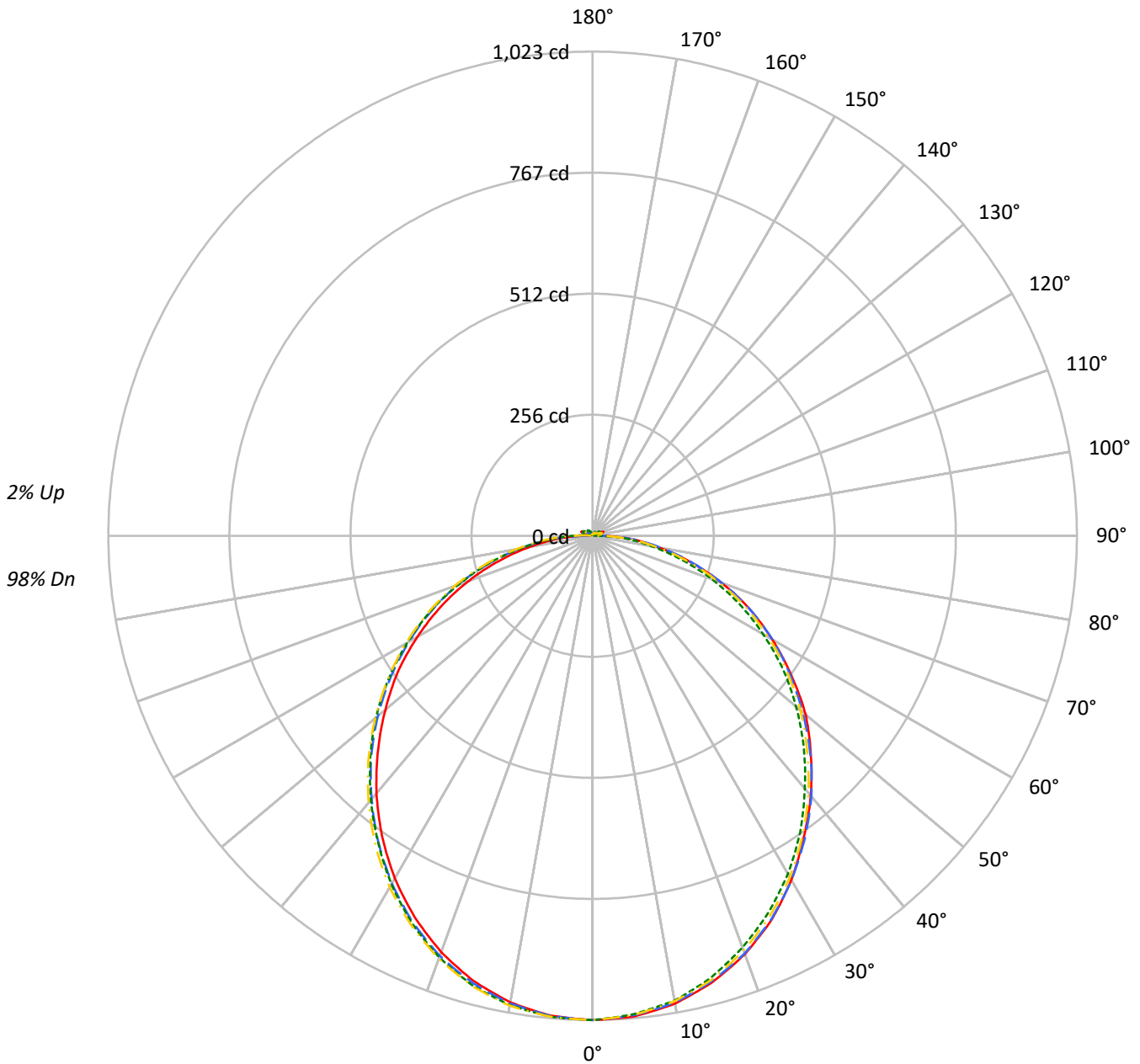
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2986.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

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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°	1483	1483	1483	1483
5°	1482	1475	1480	1483
10°	1477	1467	1473	1481
15°	1465	1450	1460	1475
20°	1450	1427	1443	1462
25°	1431	1404	1422	1444
30°	1405	1380	1398	1422
35°	1376	1352	1371	1399
40°	1356	1319	1343	1378
45°	1336	1292	1314	1361
50°	1324	1264	1287	1348
55°	1293	1239	1270	1328
60°	1269	1205	1238	1311
65°	1254	1174	1210	1296
70°	1226	1134	1177	1275
75°	1193	1085	1144	1275
80°	1181	1045	1111	1283
85°	1410	1159	1235	1524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.2
10°-20°	275.1	9.2
20°-30°	412.1	13.8
30°-40°	489.6	16.4
40°-50°	503.0	16.8
50°-60°	457.6	15.3
60°-70°	361.6	12.1
70°-80°	229.3	7.7
80°-90°	90.6	3.0
90°-100°	10.4	0.3
100°-110°	17.9	0.6
110°-120°	16.7	0.6
120°-130°	10.0	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°	783.8	26.3
0°-40°	1273.4	42.6
0°-60°	2234.1	74.8
0°-90°	2915.5	97.6
90°-120°	45.0	1.5
90°-150°	66.3	2.2
90°-180°	70.0	2.3
0°-180°	2986.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1023	1023	1023	1023	1023	
5°	1019	1014	1018	1020	1019	97
15°	977	966	974	983	977	275
25°	895	878	889	904	895	412
35°	778	764	775	791	778	488
45°	652	631	641	664	652	504
55°	512	490	503	526	512	459
65°	366	342	353	378	366	361
75°	213	194	204	228	213	226
85°	85	70	74	92	85	80
90°	15	5	10	37	15	16
95°	4	2	7	13	4	5
105°	17	20	22	20	17	16
115°	19	17	23	21	19	19
125°	6	15	6	19	6	7
135°	3	12	2	18	3	2
145°	3	10	2	12	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°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
5°	1019.2	1014.2	1016.8	1016.8	1014.2	1011.7	1015.8	1016.6	1017.6	1014.9	1018.1
10°	1003.6	999.0	1001.4	1000.1	997.1	993.7	998.5	1000.4	1001.1	999.3	1003.5
15°	976.7	973.3	973.8	972.8	966.4	964.8	971.1	973.8	973.5	974.1	978.4
20°	940.5	937.2	939.1	935.4	925.6	928.3	932.7	935.2	935.7	938.6	944.4
25°	895.1	892.2	893.5	889.8	878.4	881.5	886.0	890.5	889.2	894.1	900.1
30°	839.6	839.4	840.2	837.6	824.9	826.9	833.1	836.7	835.7	842.6	848.1
35°	777.7	781.8	781.1	776.6	764.4	766.7	773.2	775.8	775.3	783.7	789.5
40°	717.0	717.4	719.0	711.1	697.3	703.6	709.0	709.8	710.3	719.3	726.2
45°	652.0	649.1	650.3	644.5	630.7	635.6	640.8	643.4	641.3	651.5	661.5
50°	587.3	579.3	578.5	574.6	560.8	565.6	573.2	573.8	571.1	583.5	591.8
55°	511.9	511.2	507.8	505.1	490.5	495.8	501.7	502.4	502.7	510.6	520.5
60°	438.0	437.7	438.5	431.7	416.0	423.2	429.0	429.3	427.4	440.4	447.8
65°	365.9	362.4	365.1	359.2	342.5	349.1	357.2	356.4	352.9	364.6	376.0
70°	289.5	289.0	289.8	282.6	267.8	273.8	281.6	281.3	277.9	291.7	303.3
75°	213.1	217.6	215.9	208.7	193.8	201.7	207.0	206.0	204.4	216.4	225.7
80°	141.6	146.4	147.1	137.8	125.2	131.8	136.6	136.5	133.1	145.5	155.9
85°	84.8	86.7	86.7	79.6	69.7	75.0	80.4	77.9	74.3	86.2	92.2
90°	14.6	6.1	5.9	5.6	5.1	6.6	8.3	9.2	9.5	12.2	15.7
95°	3.7	4.3	4.3	7.4	1.9	6.3	5.0	6.7	7.2	6.9	5.8
100°	3.4	3.9	14.6	15.7	14.8	15.7	17.0	6.9	6.7	6.6	11.7
105°	17.0	19.3	20.1	16.1	20.1	17.2	20.6	21.4	22.3	21.0	22.0
110°	24.4	19.6	15.7	14.1	18.6	14.9	17.2	20.6	24.9	23.1	21.5
115°	18.8	15.4	10.0	12.5	17.2	14.1	12.2	18.5	22.8	21.7	16.1
120°	13.5	11.9	7.1	12.2	16.2	13.3	8.3	13.0	14.3	14.3	12.2
125°	6.4	7.7	7.2	11.9	15.4	12.0	7.9	6.4	5.6	7.1	12.0
130°	2.4	7.2	7.5	10.4	13.5	10.6	7.2	5.9	2.4	6.7	11.1
135°	2.7	6.9	6.6	9.5	12.2	8.2	6.6	5.5	2.4	6.3	9.8
140°	2.4	6.4	9.0	7.9	11.2	7.5	7.7	5.1	2.4	5.9	8.3
145°	2.6	5.8	9.5	8.5	9.6	9.3	7.9	4.8	2.4	5.5	7.5
150°	2.4	5.0	8.2	8.7	10.0	9.3	7.2	4.7	2.6	5.1	6.7
155°	2.6	4.7	6.7	7.7	8.7	6.9	5.5	4.0	2.6	4.7	6.1
160°	2.7	3.9	4.8	5.6	5.1	5.3	4.5	3.4	2.4	4.0	5.3
165°	2.6	3.1	3.5	3.1	4.2	3.2	3.2	2.7	2.6	3.4	4.5
170°	2.6	2.7	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



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
5°	1019.5	1020.0	1016.5	1020.2	1019.5	1019.2
10°	1005.7	1006.7	1004.1	1008.3	1005.7	1003.6
15°	981.3	983.1	980.0	984.7	981.6	976.7
20°	946.6	947.9	947.6	950.7	947.0	940.5
25°	903.0	903.5	905.1	907.3	903.5	895.1
30°	851.9	850.2	854.3	857.4	850.8	839.6
35°	793.2	790.7	794.8	799.6	793.5	777.7
40°	728.8	728.6	735.4	736.0	729.6	717.0
45°	661.0	664.1	667.8	669.8	661.0	652.0
50°	591.8	597.9	597.8	598.9	590.9	587.3
55°	522.6	525.7	527.6	527.4	522.6	511.9
60°	450.0	452.3	456.9	456.0	450.5	438.0
65°	376.5	378.1	381.0	382.8	375.1	365.9
70°	300.9	301.0	307.0	310.4	299.4	289.5
75°	227.8	227.7	233.3	235.7	227.3	213.1
80°	154.9	153.8	163.0	163.0	153.2	141.6
85°	90.6	91.7	98.7	100.7	93.4	84.8
90°	25.8	37.2	39.2	36.1	25.0	14.6
95°	8.2	13.0	8.3	5.1	4.5	3.7
100°	9.2	5.1	11.4	5.6	3.5	3.4
105°	17.8	20.4	18.5	18.0	17.8	17.0
110°	19.4	21.5	16.9	19.1	20.9	24.4
115°	18.8	21.4	17.3	17.3	17.8	18.8
120°	18.0	19.4	16.5	12.5	14.9	13.5
125°	17.3	18.9	15.7	12.4	7.7	6.4
130°	16.5	18.3	14.9	11.6	5.9	2.4
135°	14.1	17.7	12.5	9.6	5.9	2.7
140°	11.2	14.0	11.4	8.5	5.5	2.4
145°	10.1	12.5	9.6	8.7	5.1	2.6
150°	9.2	10.8	8.5	7.7	4.7	2.4
155°	7.1	9.8	7.2	6.3	4.3	2.6
160°	5.5	5.5	5.6	5.3	3.9	2.7
165°	4.7	4.8	4.7	4.3	3.4	2.6
170°	4.3	4.8	4.2	3.5	2.9	2.6
175°	3.2	4.2	3.2	2.7	2.7	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)