

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: P855755

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

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855755
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-MED-3000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

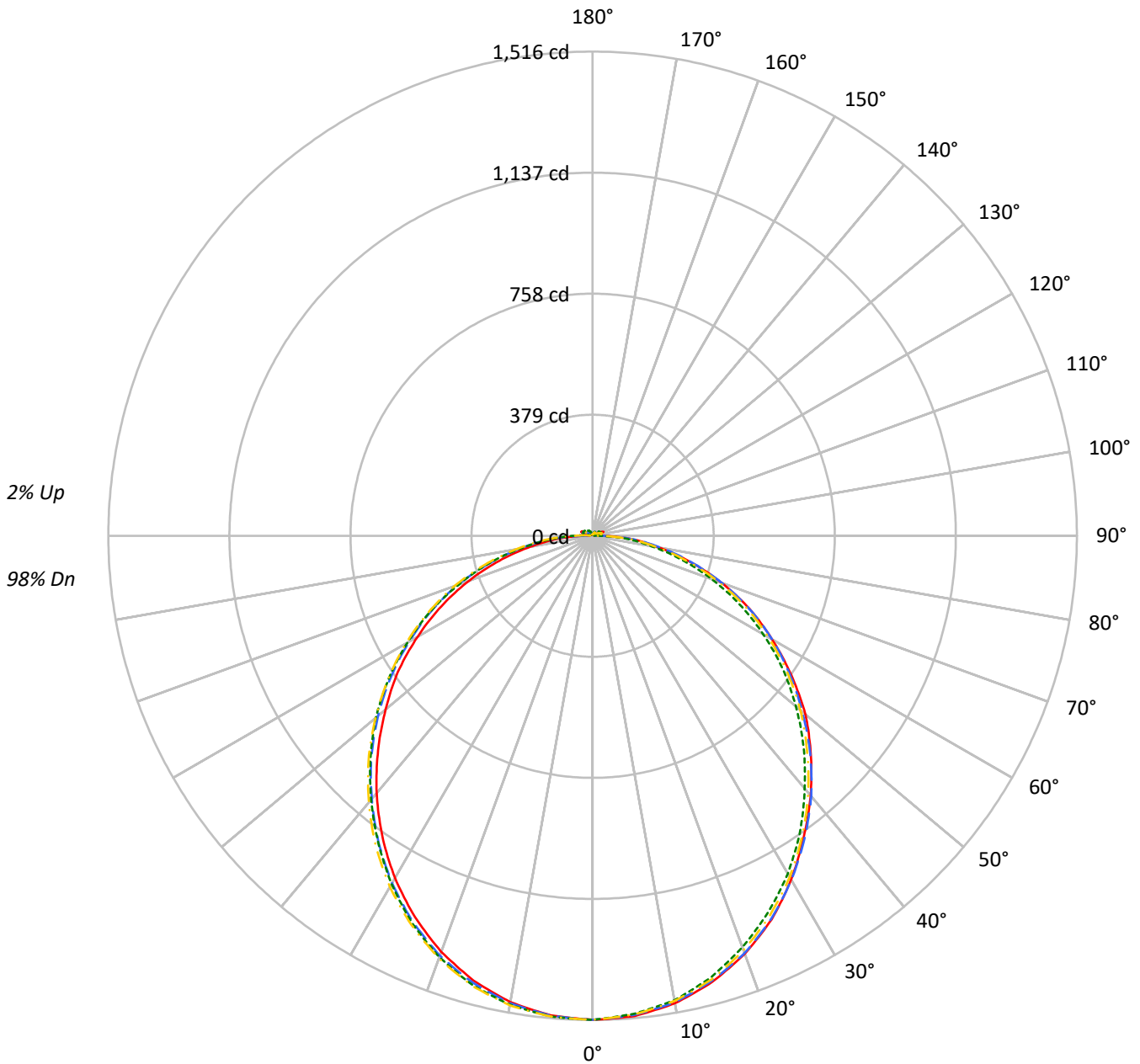
Lumens per Lamp: N/A
Luminaire Lumens: 4422.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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				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	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°	2196	2196	2196	2196
5°	2195	2184	2192	2197
10°	2187	2172	2181	2193
15°	2170	2147	2162	2184
20°	2148	2114	2137	2164
25°	2119	2080	2105	2139
30°	2080	2044	2070	2106
35°	2037	2002	2031	2071
40°	2008	1953	1990	2041
45°	1979	1914	1946	2015
50°	1961	1872	1906	1996
55°	1915	1835	1881	1966
60°	1879	1785	1834	1941
65°	1858	1739	1792	1920
70°	1816	1680	1744	1888
75°	1766	1607	1694	1888
80°	1750	1548	1645	1901
85°	2086	1716	1830	2258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.2
10°-20°	407.4	9.2
20°-30°	610.3	13.8
30°-40°	725.1	16.4
40°-50°	744.9	16.8
50°-60°	677.7	15.3
60°-70°	535.5	12.1
70°-80°	339.5	7.7
80°-90°	134.2	3.0
90°-100°	15.5	0.3
100°-110°	26.5	0.6
110°-120°	24.7	0.6
120°-130°	14.9	0.3
130°-140°	9.9	0.2
140°-150°	6.9	0.2
150°-160°	4.0	0.1
160°-170°	1.6	0.0
170°-180°	0.4	0.0
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0°-30°	1160.8	26.3
0°-40°	1885.9	42.6
0°-60°	3308.4	74.8
0°-90°	4317.6	97.6
90°-120°	66.6	1.5
90°-150°	98.3	2.2
90°-180°	104.0	2.4
0°-180°	4422.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1516	1516	1516	1516	1516	
5°	1509	1502	1507	1511	1509	143
15°	1446	1431	1442	1456	1446	408
25°	1326	1301	1317	1338	1326	610
35°	1152	1132	1148	1171	1152	722
45°	966	934	950	983	966	746
55°	758	726	744	778	758	679
65°	542	507	523	560	542	535
75°	316	287	303	337	316	335
85°	126	103	110	136	126	118
90°	22	8	14	55	22	24
95°	6	3	11	19	6	8
105°	25	30	33	30	25	24
115°	28	25	34	32	28	28
125°	10	23	8	28	10	10
135°	4	18	4	26	4	3
145°	4	14	4	18	4	2
155°	4	13	4	14	4	2
165°	4	6	4	7	4	1
175°	4	5	4	6	4	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°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
5°	1509.4	1502.0	1505.8	1505.8	1502.0	1498.2	1504.4	1505.6	1507.0	1503.0	1507.7
10°	1486.3	1479.4	1483.0	1481.1	1476.6	1471.6	1478.7	1481.6	1482.5	1479.9	1486.1
15°	1446.4	1441.4	1442.1	1440.7	1431.1	1428.8	1438.0	1442.1	1441.6	1442.6	1449.0
20°	1392.9	1387.9	1390.7	1385.3	1370.8	1374.8	1381.2	1385.0	1385.7	1390.0	1398.6
25°	1325.6	1321.3	1323.2	1317.7	1300.8	1305.4	1312.0	1318.7	1316.8	1324.1	1332.9
30°	1243.3	1243.1	1244.3	1240.5	1221.7	1224.5	1233.8	1239.0	1237.6	1247.8	1255.9
35°	1151.8	1157.7	1156.8	1150.1	1132.0	1135.4	1145.1	1148.9	1148.2	1160.6	1169.1
40°	1061.9	1062.4	1064.7	1053.1	1032.6	1041.9	1050.0	1051.2	1051.9	1065.2	1075.4
45°	965.6	961.3	963.0	954.4	934.0	941.3	948.9	952.7	949.7	964.9	979.6
50°	869.8	857.9	856.7	851.0	830.5	837.7	848.8	849.8	845.8	864.1	876.4
55°	758.0	757.1	752.1	748.0	726.4	734.2	743.0	744.0	744.5	756.1	770.9
60°	648.6	648.2	649.4	639.4	616.1	626.8	635.3	635.8	632.9	652.2	663.1
65°	541.9	536.6	540.7	531.9	507.2	516.9	529.0	527.9	522.6	540.0	556.9
70°	428.7	428.0	429.2	418.5	396.6	405.4	417.1	416.6	411.6	432.0	449.2
75°	315.5	322.2	319.8	309.1	287.0	298.6	306.5	305.1	302.7	320.5	334.3
80°	209.7	216.8	217.8	204.0	185.5	195.2	202.3	202.1	197.1	215.4	230.9
85°	125.5	128.4	128.4	117.9	103.2	111.0	119.1	115.3	110.1	127.7	136.5
90°	21.6	9.0	8.8	8.3	7.6	9.7	12.4	13.6	14.0	18.1	23.3
95°	5.5	6.4	6.4	10.9	2.9	9.3	7.4	10.0	10.7	10.2	8.6
100°	5.0	5.7	21.6	23.3	21.9	23.3	25.2	10.2	10.0	9.7	17.4
105°	25.2	28.5	29.7	23.8	29.7	25.4	30.4	31.6	33.1	31.1	32.6
110°	36.1	29.0	23.3	20.9	27.6	22.1	25.4	30.4	36.9	34.2	31.9
115°	27.8	22.8	14.7	18.5	25.4	20.9	18.1	27.3	33.8	32.1	23.8
120°	20.0	17.6	10.5	18.1	24.0	19.7	12.4	19.3	21.2	21.2	18.1
125°	9.5	11.4	10.7	17.6	22.8	17.8	11.7	9.5	8.3	10.5	17.8
130°	3.6	10.7	11.2	15.5	20.0	15.7	10.7	8.8	3.6	10.0	16.4
135°	4.0	10.2	9.7	14.0	18.1	12.1	9.7	8.1	3.6	9.3	14.5
140°	3.6	9.5	13.3	11.7	16.6	11.2	11.4	7.6	3.6	8.8	12.4
145°	3.8	8.6	14.0	12.6	14.3	13.8	11.7	7.1	3.6	8.1	11.2
150°	3.6	7.4	12.1	12.8	14.7	13.8	10.7	6.9	3.8	7.6	10.0
155°	3.8	6.9	10.0	11.4	12.8	10.2	8.1	5.9	3.8	6.9	9.0
160°	4.0	5.7	7.1	8.3	7.6	7.8	6.7	5.0	3.6	5.9	7.8
165°	3.8	4.5	5.2	4.5	6.2	4.8	4.8	4.0	3.8	5.0	6.7
170°	3.8	4.0	4.3	4.5	6.2	5.5	4.3	3.8	3.8	4.5	5.5
175°	3.6	3.8	4.3	4.8	4.8	4.5	4.3	4.5	4.5	4.5	4.8
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
5°	1509.8	1510.6	1505.3	1510.8	1509.8	1509.4
10°	1489.4	1490.8	1487.0	1493.2	1489.4	1486.3
15°	1453.3	1455.9	1451.4	1458.3	1453.7	1446.4
20°	1401.9	1403.8	1403.3	1407.8	1402.4	1392.9
25°	1337.2	1337.9	1340.3	1343.6	1337.9	1325.6
30°	1261.6	1259.0	1265.2	1269.7	1260.0	1243.3
35°	1174.6	1171.0	1177.0	1184.1	1175.1	1151.8
40°	1079.2	1079.0	1089.0	1089.9	1080.4	1061.9
45°	978.9	983.4	988.9	992.0	978.9	965.6
50°	876.4	885.5	885.2	886.9	875.0	869.8
55°	773.9	778.5	781.3	781.1	773.9	758.0
60°	666.5	669.8	676.7	675.3	667.2	648.6
65°	557.6	560.0	564.2	566.8	555.4	541.9
70°	445.6	445.8	454.6	459.6	443.4	428.7
75°	337.4	337.2	345.5	349.0	336.7	315.5
80°	229.4	227.8	241.3	241.3	226.8	209.7
85°	134.1	135.8	146.2	149.1	138.4	125.5
90°	38.3	55.2	58.0	53.5	37.1	21.6
95°	12.1	19.3	12.4	7.6	6.7	5.5
100°	13.6	7.6	16.9	8.3	5.2	5.0
105°	26.4	30.2	27.3	26.6	26.4	25.2
110°	28.8	31.9	25.0	28.3	30.9	36.1
115°	27.8	31.6	25.7	25.7	26.4	27.8
120°	26.6	28.8	24.5	18.5	22.1	20.0
125°	25.7	28.1	23.3	18.3	11.4	9.5
130°	24.5	27.1	22.1	17.1	8.8	3.6
135°	20.9	26.2	18.5	14.3	8.8	4.0
140°	16.6	20.7	16.9	12.6	8.1	3.6
145°	15.0	18.5	14.3	12.8	7.6	3.8
150°	13.6	15.9	12.6	11.4	6.9	3.6
155°	10.5	14.5	10.7	9.3	6.4	3.8
160°	8.1	8.1	8.3	7.8	5.7	4.0
165°	6.9	7.1	6.9	6.4	5.0	3.8
170°	6.4	7.1	6.2	5.2	4.3	3.8
175°	4.8	6.2	4.8	4.0	4.0	3.6
180°	4.3	4.3	4.3	4.3	4.3	4.3



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)