

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: P855757

Luminaire Tested: **24SFS-L3C4-UNV-MED-4000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855757
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-4000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 4000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

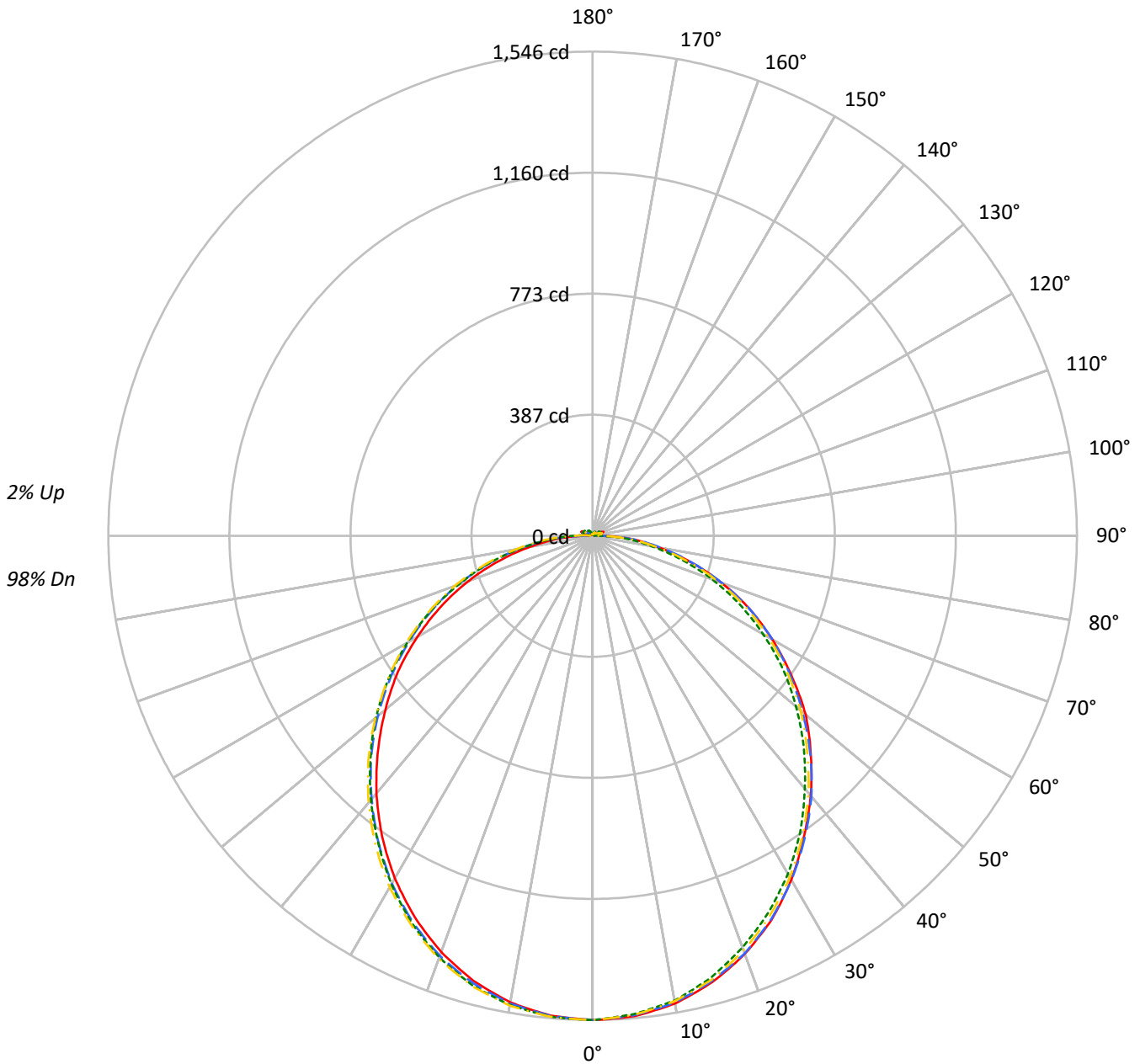
Lumens per Lamp: N/A
Luminaire Lumens: 4512.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.35
Luminous Opening: Rectangular (W 1.9' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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				98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80				80
2	98	89	82	76	95	87	80	75	83	78	73	79	75	71	76	72	69	67				67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56				56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	48				48
5	75	62	53	46	72	60	52	45	58	50	45	56	49	44	54	48	43	41				41
6	69	56	46	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36				36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32				32
8	60	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28				28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	25				25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2240	2240	2240	2240
5°	2240	2229	2236	2242
10°	2231	2217	2225	2238
15°	2214	2190	2206	2228
20°	2191	2156	2180	2209
25°	2162	2122	2148	2182
30°	2122	2085	2113	2149
35°	2079	2043	2072	2113
40°	2049	1993	2030	2082
45°	2019	1953	1985	2056
50°	2000	1910	1945	2037
55°	1954	1872	1919	2006
60°	1918	1822	1871	1980
65°	1895	1774	1828	1959
70°	1853	1714	1779	1927
75°	1802	1639	1729	1926
80°	1786	1579	1678	1939
85°	2130	1750	1867	2302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.2
10°-20°	415.7	9.2
20°-30°	622.7	13.8
30°-40°	739.8	16.4
40°-50°	760.1	16.8
50°-60°	691.5	15.3
60°-70°	546.4	12.1
70°-80°	346.4	7.7
80°-90°	137.0	3.0
90°-100°	15.8	0.3
100°-110°	27.0	0.6
110°-120°	25.2	0.6
120°-130°	15.2	0.3
130°-140°	10.1	0.2
140°-150°	7.0	0.2
150°-160°	4.1	0.1
160°-170°	1.6	0.0
170°-180°	0.5	0.0
0°-30°	1184.4	26.3
0°-40°	1924.2	42.6
0°-60°	3375.8	74.8
0°-90°	4405.5	97.6
90°-120°	68.0	1.5
90°-150°	100.3	2.2
90°-180°	106.0	2.3
0°-180°	4512.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1546	1546	1546	1546	1546	
5°	1540	1533	1538	1541	1540	146
15°	1476	1460	1471	1486	1476	416
25°	1353	1327	1344	1365	1353	623
35°	1175	1155	1172	1195	1175	737
45°	985	953	969	1003	985	761
55°	773	741	760	794	773	693
65°	553	518	533	571	553	546
75°	322	293	309	344	322	342
85°	128	105	112	138	128	121
90°	22	8	14	56	22	24
95°	6	3	11	20	6	8
105°	26	30	34	31	26	25
115°	28	26	34	32	28	28
125°	10	23	8	29	10	10
135°	4	18	4	27	4	3
145°	4	15	4	19	4	2
155°	4	13	4	15	4	2
165°	4	6	4	7	4	1
175°	4	5	5	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°	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
5°	1540.1	1532.6	1536.5	1536.5	1532.6	1528.7	1535.0	1536.2	1537.7	1533.5	1538.4
10°	1516.6	1509.5	1513.2	1511.2	1506.6	1501.5	1508.8	1511.7	1512.7	1510.0	1516.3
15°	1475.8	1470.7	1471.4	1470.0	1460.3	1457.8	1467.3	1471.4	1470.9	1471.9	1478.5
20°	1421.2	1416.1	1419.0	1413.4	1398.6	1402.8	1409.3	1413.2	1413.9	1418.3	1427.0
25°	1352.6	1348.2	1350.1	1344.5	1327.3	1331.9	1338.7	1345.5	1343.6	1351.1	1360.1
30°	1268.6	1268.4	1269.6	1265.7	1246.5	1249.4	1258.9	1264.2	1262.8	1273.2	1281.5
35°	1175.2	1181.3	1180.3	1173.5	1155.1	1158.5	1168.4	1172.3	1171.6	1184.2	1192.9
40°	1083.5	1084.0	1086.4	1074.5	1053.7	1063.1	1071.4	1072.6	1073.3	1086.9	1097.3
45°	985.2	980.9	982.6	973.8	953.0	960.5	968.3	972.1	969.0	984.5	999.6
50°	887.5	875.3	874.1	868.3	847.4	854.7	866.1	867.1	863.0	881.6	894.3
55°	773.4	772.5	767.4	763.3	741.2	749.2	758.2	759.1	759.6	771.5	786.5
60°	661.8	661.4	662.6	652.4	628.6	639.5	648.3	648.7	645.8	665.5	676.6
65°	552.9	547.6	551.7	542.7	517.5	527.4	539.8	538.6	533.3	551.0	568.2
70°	437.4	436.7	437.9	427.0	404.7	413.7	425.5	425.1	420.0	440.8	458.3
75°	321.9	328.7	326.3	315.4	292.8	304.7	312.7	311.3	308.8	327.0	341.1
80°	214.0	221.3	222.2	208.2	189.2	199.2	206.5	206.2	201.1	219.8	235.6
85°	128.1	131.0	131.0	120.3	105.3	113.3	121.5	117.7	112.3	130.3	139.3
90°	22.1	9.2	9.0	8.5	7.8	9.9	12.6	13.8	14.3	18.4	23.8
95°	5.6	6.6	6.6	11.2	2.9	9.5	7.5	10.2	10.9	10.4	8.7
100°	5.1	5.8	22.1	23.8	22.3	23.8	25.7	10.4	10.2	9.9	17.7
105°	25.7	29.1	30.3	24.3	30.3	26.0	31.1	32.3	33.7	31.8	33.2
110°	36.9	29.6	23.8	21.3	28.1	22.6	26.0	31.1	37.6	34.9	32.5
115°	28.4	23.3	15.0	18.9	26.0	21.3	18.4	27.9	34.5	32.8	24.3
120°	20.4	18.0	10.7	18.4	24.5	20.1	12.6	19.7	21.6	21.6	18.4
125°	9.7	11.6	10.9	18.0	23.3	18.2	11.9	9.7	8.5	10.7	18.2
130°	3.6	10.9	11.4	15.8	20.4	16.0	10.9	9.0	3.6	10.2	16.7
135°	4.1	10.4	9.9	14.3	18.4	12.4	9.9	8.2	3.6	9.5	14.8
140°	3.6	9.7	13.6	11.9	17.0	11.4	11.6	7.8	3.6	9.0	12.6
145°	3.9	8.7	14.3	12.9	14.6	14.1	11.9	7.3	3.6	8.2	11.4
150°	3.6	7.5	12.4	13.1	15.0	14.1	10.9	7.0	3.9	7.8	10.2
155°	3.9	7.0	10.2	11.6	13.1	10.4	8.2	6.1	3.9	7.0	9.2
160°	4.1	5.8	7.3	8.5	7.8	8.0	6.8	5.1	3.6	6.1	8.0
165°	3.9	4.6	5.3	4.6	6.3	4.9	4.9	4.1	3.9	5.1	6.8
170°	3.9	4.1	4.4	4.6	6.3	5.6	4.4	3.9	3.9	4.6	5.6
175°	3.6	3.9	4.4	4.9	4.9	4.6	4.4	4.6	4.6	4.6	4.9
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°	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
5°	1540.6	1541.3	1536.0	1541.5	1540.6	1540.1
10°	1519.7	1521.2	1517.3	1523.6	1519.7	1516.6
15°	1482.8	1485.5	1480.9	1487.9	1483.3	1475.8
20°	1430.4	1432.4	1431.9	1436.5	1430.9	1421.2
25°	1364.4	1365.2	1367.6	1371.0	1365.2	1352.6
30°	1287.3	1284.6	1290.9	1295.5	1285.6	1268.6
35°	1198.5	1194.9	1200.9	1208.2	1199.0	1175.2
40°	1101.2	1101.0	1111.2	1112.1	1102.4	1083.5
45°	998.8	1003.4	1009.0	1012.2	998.8	985.2
50°	894.3	903.5	903.2	904.9	892.8	887.5
55°	789.7	794.3	797.2	797.0	789.7	773.4
60°	680.0	683.4	690.5	689.0	680.8	661.8
65°	568.9	571.3	575.7	578.4	566.7	552.9
70°	454.7	454.9	463.9	469.0	452.5	437.4
75°	344.3	344.0	352.5	356.2	343.5	321.9
80°	234.1	232.4	246.2	246.2	231.5	214.0
85°	136.8	138.5	149.2	152.1	141.2	128.1
90°	39.1	56.3	59.2	54.6	37.8	22.1
95°	12.4	19.7	12.6	7.8	6.8	5.6
100°	13.8	7.8	17.2	8.5	5.3	5.1
105°	26.9	30.8	27.9	27.2	26.9	25.7
110°	29.4	32.5	25.5	28.9	31.5	36.9
115°	28.4	32.3	26.2	26.2	26.9	28.4
120°	27.2	29.4	25.0	18.9	22.6	20.4
125°	26.2	28.6	23.8	18.7	11.6	9.7
130°	25.0	27.7	22.6	17.5	9.0	3.6
135°	21.3	26.7	18.9	14.6	9.0	4.1
140°	17.0	21.1	17.2	12.9	8.2	3.6
145°	15.3	18.9	14.6	13.1	7.8	3.9
150°	13.8	16.3	12.9	11.6	7.0	3.6
155°	10.7	14.8	10.9	9.5	6.6	3.9
160°	8.2	8.2	8.5	8.0	5.8	4.1
165°	7.0	7.3	7.0	6.6	5.1	3.9
170°	6.6	7.3	6.3	5.3	4.4	3.9
175°	4.9	6.3	4.9	4.1	4.1	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)