

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: P855758

Luminaire Tested: **24SFS-L3C4-UNV-MED-5000K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855758
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-5000K
Description: 2x4 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

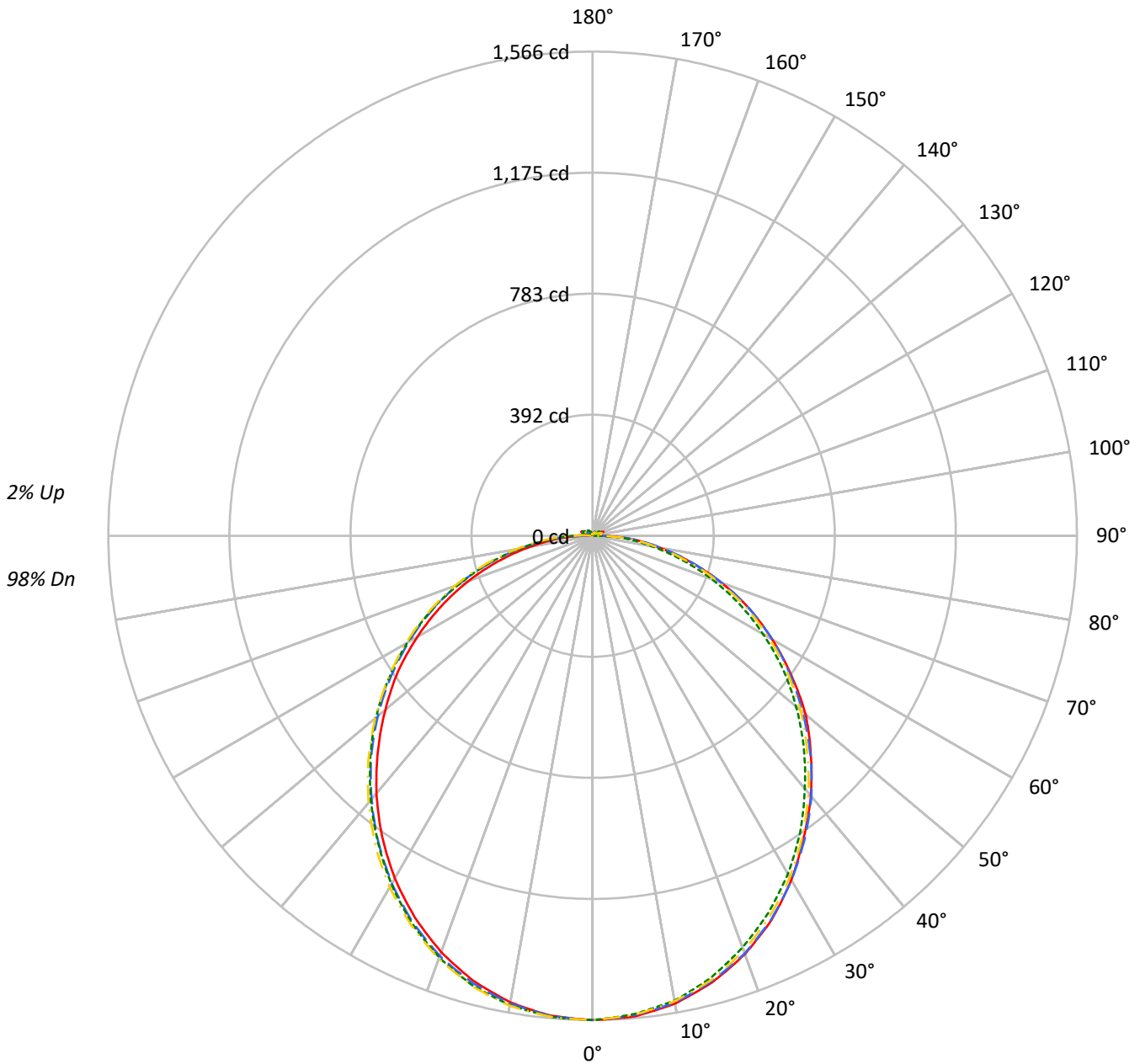
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4571.0 lumens
Efficiency: N/A
Efficacy: 130.6 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	55	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°	2270	2270	2270	2270
5°	2269	2258	2266	2271
10°	2260	2246	2255	2267
15°	2243	2219	2235	2257
20°	2220	2185	2209	2237
25°	2190	2150	2176	2211
30°	2150	2113	2140	2177
35°	2106	2070	2099	2141
40°	2076	2019	2056	2110
45°	2045	1978	2011	2083
50°	2027	1935	1971	2063
55°	1979	1897	1944	2033
60°	1943	1845	1896	2006
65°	1920	1797	1852	1984
70°	1877	1737	1802	1952
75°	1826	1661	1752	1951
80°	1809	1599	1700	1965
85°	2158	1774	1892	2332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.2
10°-20°	421.2	9.2
20°-30°	630.8	13.8
30°-40°	749.5	16.4
40°-50°	770.0	16.8
50°-60°	700.5	15.3
60°-70°	553.5	12.1
70°-80°	351.0	7.7
80°-90°	138.8	3.0
90°-100°	16.0	0.3
100°-110°	27.4	0.6
110°-120°	25.5	0.6
120°-130°	15.4	0.3
130°-140°	10.2	0.2
140°-150°	7.1	0.2
150°-160°	4.2	0.1
160°-170°	1.7	0.0
170°-180°	0.5	0.0
0°-30°	1199.9	26.3
0°-40°	1949.4	42.6
0°-60°	3419.9	74.8
0°-90°	4463.1	97.6
90°-120°	68.9	1.5
90°-150°	101.6	2.2
90°-180°	108.0	2.4
0°-180°	4571.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1566	1566	1566	1566	1566	
5°	1560	1553	1558	1562	1560	148
15°	1495	1479	1490	1505	1495	422
25°	1370	1345	1361	1383	1370	631
35°	1191	1170	1187	1210	1191	746
45°	998	965	982	1017	998	771
55°	784	751	770	805	784	702
65°	560	524	540	579	560	553
75°	326	297	313	348	326	346
85°	130	107	114	140	130	122
90°	22	8	14	57	22	25
95°	6	3	11	20	6	8
105°	26	31	34	31	26	25
115°	29	26	35	33	29	29
125°	10	24	9	29	10	10
135°	4	19	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°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
5°	1560.2	1552.6	1556.5	1556.5	1552.6	1548.7	1555.1	1556.3	1557.8	1553.6	1558.5
10°	1536.4	1529.3	1532.9	1531.0	1526.3	1521.2	1528.5	1531.5	1532.5	1529.8	1536.1
15°	1495.1	1489.9	1490.7	1489.2	1479.4	1476.9	1486.5	1490.7	1490.2	1491.2	1497.8
20°	1439.8	1434.6	1437.6	1431.9	1416.9	1421.1	1427.8	1431.7	1432.4	1436.8	1445.7
25°	1370.2	1365.8	1367.8	1362.1	1344.7	1349.3	1356.2	1363.1	1361.1	1368.8	1377.9
30°	1285.2	1285.0	1286.2	1282.3	1262.8	1265.8	1275.4	1280.8	1279.3	1289.9	1298.2
35°	1190.6	1196.7	1195.7	1188.9	1170.2	1173.6	1183.7	1187.6	1186.9	1199.7	1208.5
40°	1097.7	1098.2	1100.6	1088.6	1067.4	1077.0	1085.4	1086.6	1087.3	1101.1	1111.7
45°	998.1	993.7	995.4	986.6	965.4	973.1	980.9	984.9	981.7	997.4	1012.6
50°	899.1	886.8	885.6	879.7	858.5	865.9	877.4	878.4	874.3	893.2	906.0
55°	783.6	782.6	777.4	773.2	750.9	759.0	768.1	769.1	769.5	781.6	796.8
60°	670.5	670.0	671.2	660.9	636.8	647.9	656.7	657.2	654.3	674.2	685.5
65°	560.1	554.7	558.9	549.8	524.3	534.3	546.9	545.6	540.2	558.2	575.6
70°	443.1	442.4	443.6	432.6	410.0	419.1	431.1	430.6	425.5	446.6	464.3
75°	326.2	333.0	330.6	319.5	296.7	308.7	316.8	315.3	312.9	331.3	345.6
80°	216.8	224.2	225.1	210.9	191.7	201.8	209.2	208.9	203.8	222.7	238.7
85°	129.8	132.7	132.7	121.9	106.7	114.8	123.1	119.2	113.8	132.0	141.1
90°	22.4	9.3	9.1	8.6	7.9	10.1	12.8	14.0	14.5	18.7	24.1
95°	5.7	6.6	6.6	11.3	2.9	9.6	7.6	10.3	11.1	10.6	8.8
100°	5.2	5.9	22.4	24.1	22.6	24.1	26.1	10.6	10.3	10.1	17.9
105°	26.1	29.5	30.7	24.6	30.7	26.3	31.5	32.7	34.2	32.2	33.7
110°	37.4	30.0	24.1	21.6	28.5	22.9	26.3	31.5	38.1	35.4	32.9
115°	28.8	23.6	15.2	19.2	26.3	21.6	18.7	28.3	34.9	33.2	24.6
120°	20.6	18.2	10.8	18.7	24.8	20.4	12.8	19.9	21.9	21.9	18.7
125°	9.8	11.8	11.1	18.2	23.6	18.4	12.0	9.8	8.6	10.8	18.4
130°	3.7	11.1	11.6	16.0	20.6	16.2	11.1	9.1	3.7	10.3	17.0
135°	4.2	10.6	10.1	14.5	18.7	12.5	10.1	8.4	3.7	9.6	15.0
140°	3.7	9.8	13.8	12.0	17.2	11.6	11.8	7.9	3.7	9.1	12.8
145°	3.9	8.8	14.5	13.0	14.7	14.3	12.0	7.4	3.7	8.4	11.6
150°	3.7	7.6	12.5	13.3	15.2	14.3	11.1	7.1	3.9	7.9	10.3
155°	3.9	7.1	10.3	11.8	13.3	10.6	8.4	6.1	3.9	7.1	9.3
160°	4.2	5.9	7.4	8.6	7.9	8.1	6.9	5.2	3.7	6.1	8.1
165°	3.9	4.7	5.4	4.7	6.4	4.9	4.9	4.2	3.9	5.2	6.9
170°	3.9	4.2	4.4	4.7	6.4	5.7	4.4	3.9	3.9	4.7	5.7
175°	3.7	3.9	4.4	4.9	4.9	4.7	4.4	4.7	4.7	4.7	4.9
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°	1566.5	1566.5	1566.5	1566.5	1566.5	1566.5
5°	1560.7	1561.5	1556.1	1561.7	1560.7	1560.2
10°	1539.6	1541.1	1537.1	1543.5	1539.6	1536.4
15°	1502.2	1504.9	1500.3	1507.4	1502.7	1495.1
20°	1449.1	1451.1	1450.6	1455.3	1449.6	1439.8
25°	1382.3	1383.0	1385.5	1388.9	1383.0	1370.2
30°	1304.1	1301.4	1307.8	1312.5	1302.4	1285.2
35°	1214.2	1210.5	1216.6	1224.0	1214.7	1190.6
40°	1115.6	1115.4	1125.7	1126.7	1116.8	1097.7
45°	1011.9	1016.6	1022.2	1025.4	1011.9	998.1
50°	906.0	915.3	915.1	916.8	904.5	899.1
55°	800.0	804.7	807.6	807.4	800.0	783.6
60°	688.9	692.4	699.5	698.0	689.7	670.5
65°	576.4	578.8	583.2	585.9	574.1	560.1
70°	460.6	460.8	469.9	475.1	458.4	443.1
75°	348.8	348.5	357.1	360.8	348.0	326.2
80°	237.2	235.5	249.5	249.5	234.5	216.8
85°	138.6	140.3	151.2	154.1	143.0	129.8
90°	39.6	57.0	60.0	55.3	38.3	22.4
95°	12.5	19.9	12.8	7.9	6.9	5.7
100°	14.0	7.9	17.5	8.6	5.4	5.2
105°	27.3	31.2	28.3	27.5	27.3	26.1
110°	29.7	32.9	25.8	29.2	32.0	37.4
115°	28.8	32.7	26.5	26.5	27.3	28.8
120°	27.5	29.7	25.3	19.2	22.9	20.6
125°	26.5	29.0	24.1	18.9	11.8	9.8
130°	25.3	28.0	22.9	17.7	9.1	3.7
135°	21.6	27.0	19.2	14.7	9.1	4.2
140°	17.2	21.4	17.5	13.0	8.4	3.7
145°	15.5	19.2	14.7	13.3	7.9	3.9
150°	14.0	16.5	13.0	11.8	7.1	3.7
155°	10.8	15.0	11.1	9.6	6.6	3.9
160°	8.4	8.4	8.6	8.1	5.9	4.2
165°	7.1	7.4	7.1	6.6	5.2	3.9
170°	6.6	7.4	6.4	5.4	4.4	3.9
175°	4.9	6.4	4.9	4.2	4.2	3.7
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)