

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: P855652

Luminaire Tested: **12SFS-L3C4-UNV-HIGH-3500K**

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (BL231218002-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12SFS-L3C4-UNV-HIGH-3500K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

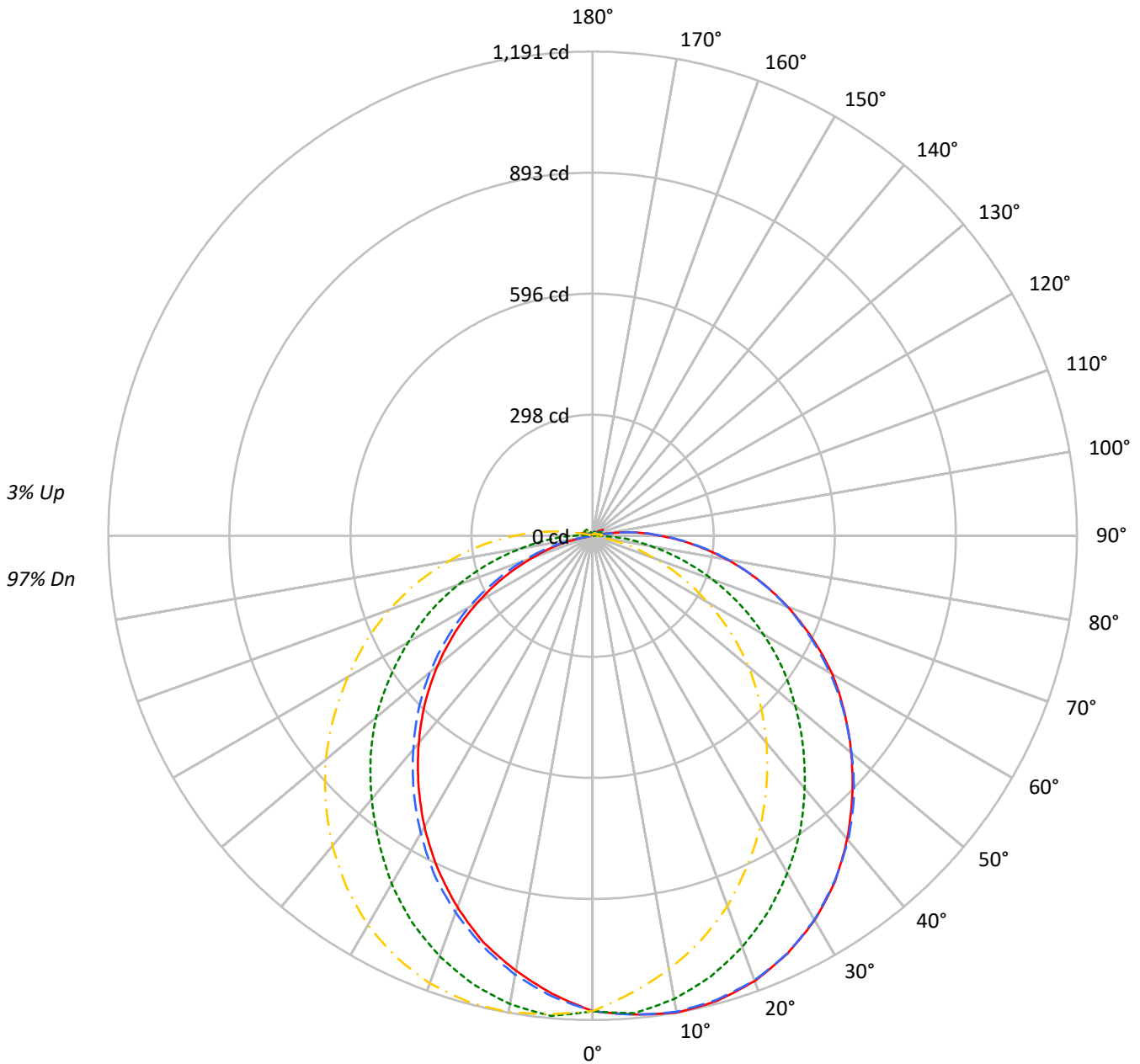
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3516.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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	109	109	109	104	104	104	99	99	99	99	97																		
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79																			
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	65																			
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	66	61	57	55																			
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	46																			
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40																			
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35																			
7	64	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	28																			
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25																			
10	52	38	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7200	7200	7200	7200
5°	7307	7286	6993	7327
10°	7446	7232	6792	7312
15°	7550	7154	6603	7275
20°	7637	7051	6370	7210
25°	7703	6937	6130	7133
30°	7764	6807	5879	7028
35°	7809	6683	5612	6894
40°	7828	6520	5344	6792
45°	7866	6373	5075	6725
50°	7952	6227	4770	6660
55°	8116	6133	4420	6534
60°	8382	5972	3996	6447
65°	8679	5822	3478	6414
70°	9186	5628	2801	6310
75°	10071	5377	2077	6248
80°	11879	5103	383	6287
85°	17592	5645	579	7567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.1
10°-20°	314.8	9.0
20°-30°	472.6	13.4
30°-40°	563.6	16.0
40°-50°	581.0	16.5
50°-60°	529.1	15.0
60°-70°	419.5	11.9
70°-80°	272.5	7.8
80°-90°	135.4	3.9
90°-100°	52.9	1.5
100°-110°	17.2	0.5
110°-120°	16.0	0.5
120°-130°	12.9	0.4
130°-140°	8.2	0.2
140°-150°	5.1	0.1
150°-160°	3.1	0.1
160°-170°	1.4	0.0
170°-180°	0.4	0.0
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0°-30°	897.8	25.5
0°-40°	1461.4	41.6
0°-60°	2571.5	73.1
0°-90°	3398.8	96.7
90°-120°	86.2	2.5
90°-150°	112.3	3.2
90°-180°	117.0	3.3
0°-180°	3516.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1169	1169	1169	1169	1169	
5°	1182	1179	1131	1185	1182	113
15°	1184	1122	1036	1141	1184	335
25°	1134	1021	902	1050	1134	523
35°	1039	889	746	917	1039	650
45°	903	732	583	772	903	698
55°	756	571	412	609	756	677
65°	596	400	239	440	596	590
75°	423	226	87	263	423	447
85°	249	80	8	107	249	221
90°	166	6	8	46	166	93
95°	97	2	26	14	97	59
105°	4	23	26	23	4	7
115°	19	20	6	24	19	17
125°	22	18	3	22	22	20
135°	8	14	3	20	8	7
145°	3	11	3	14	3	2
155°	3	10	3	11	3	1
165°	3	5	4	5	3	1
175°	3	4	3	4	3	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°	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2
5°	1182.1	1179.1	1182.5	1184.9	1178.7	1175.4	1127.6	1129.8	1131.3	1131.1	1137.7
10°	1190.9	1185.6	1188.8	1190.3	1156.7	1155.0	1083.0	1087.3	1086.2	1089.9	1096.2
15°	1184.3	1178.7	1181.3	1181.9	1122.2	1122.0	1030.2	1034.3	1035.8	1039.5	1044.7
20°	1165.5	1161.0	1163.6	1161.6	1076.1	1077.6	969.1	971.4	972.1	978.1	985.8
25°	1133.8	1130.4	1133.2	1129.8	1021.0	1023.3	897.7	902.5	902.3	911.7	920.3
30°	1091.9	1088.0	1090.5	1088.2	957.4	962.2	825.3	826.0	826.8	837.0	845.0
35°	1038.8	1037.3	1037.1	1035.0	889.1	892.3	746.1	746.1	746.5	758.4	767.2
40°	973.8	976.4	977.4	971.8	811.1	816.7	665.1	665.7	664.8	676.7	686.2
45°	903.3	907.2	908.9	901.2	731.8	737.7	581.7	584.9	582.8	591.8	606.2
50°	830.1	832.5	831.4	827.3	650.0	658.8	500.2	500.3	497.9	510.4	521.6
55°	756.0	755.6	753.8	747.4	571.3	574.6	413.6	412.8	411.7	425.1	435.6
60°	680.6	674.1	673.7	664.0	484.9	490.6	325.8	328.5	324.5	337.4	351.0
65°	595.7	592.3	590.9	588.1	399.6	407.0	241.7	240.7	238.7	253.1	263.5
70°	510.2	507.1	508.0	503.1	312.6	318.9	160.1	157.5	155.6	170.4	182.7
75°	423.3	422.5	422.7	415.6	226.0	232.7	90.9	91.3	87.3	99.5	106.2
80°	335.0	337.0	338.4	327.0	143.9	154.5	9.5	11.0	10.8	13.8	19.8
85°	249.0	251.4	252.1	243.5	79.9	87.7	5.8	8.0	8.2	8.0	6.9
90°	165.5	168.9	169.5	160.9	5.8	7.3	19.0	8.0	7.5	7.5	13.6
95°	97.4	101.3	99.3	93.5	2.1	8.2	23.7	24.6	25.9	24.4	25.6
100°	14.2	7.5	6.9	6.5	17.4	17.9	20.0	23.9	28.9	27.1	25.2
105°	4.5	5.2	5.0	9.0	23.0	20.0	14.2	21.5	26.3	25.2	18.8
110°	3.9	4.7	17.2	18.1	21.5	17.5	9.7	14.9	17.0	16.6	14.2
115°	19.2	22.2	23.5	18.5	19.8	16.1	9.0	7.3	6.5	8.2	13.8
120°	28.4	22.8	18.5	16.2	18.5	15.3	8.4	6.7	2.6	7.5	12.9
125°	21.6	17.5	11.6	14.6	17.5	14.0	7.5	6.5	2.6	7.3	11.4
130°	15.7	13.4	8.4	14.0	15.7	10.8	8.8	6.0	2.8	7.1	9.7
135°	7.7	9.0	8.6	13.8	13.8	10.8	9.0	5.6	2.8	6.3	8.8
140°	2.8	8.6	9.0	12.3	12.7	10.6	8.4	5.2	2.6	5.8	7.8
145°	2.8	8.0	7.5	11.0	11.2	7.7	6.5	4.9	3.0	5.4	7.3
150°	2.8	7.3	10.3	9.1	11.2	6.2	5.2	3.9	3.0	4.9	5.8
155°	2.8	6.7	11.0	9.7	10.1	3.7	3.7	3.4	3.0	4.1	5.2
160°	3.2	6.0	9.5	10.3	5.8	4.1	3.2	3.0	3.0	3.4	4.3
165°	3.2	5.2	7.7	8.8	4.9	3.4	3.4	3.4	3.5	3.7	3.5
170°	3.0	4.3	5.8	6.7	4.9	3.4	3.4	3.4	3.2	3.4	3.2
175°	2.8	3.7	4.1	3.5	3.7	3.7	3.4	3.0	3.0	3.0	3.2
180°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1169.2	1169.2	1169.2	1169.2	1169.2	1169.2
5°	1139.5	1185.4	1181.3	1180.8	1181.9	1182.1
10°	1099.0	1169.4	1167.0	1189.7	1190.9	1190.9
15°	1050.0	1141.2	1139.3	1186.2	1185.1	1184.3
20°	989.3	1100.3	1100.2	1171.3	1168.8	1165.5
25°	920.3	1049.8	1050.3	1143.3	1139.0	1133.8
30°	847.7	988.4	993.8	1105.4	1099.6	1091.9
35°	769.3	917.1	926.8	1054.8	1050.5	1038.8
40°	689.0	845.0	853.1	995.3	990.0	973.8
45°	605.8	772.3	774.7	928.3	921.2	903.3
50°	524.2	695.2	696.1	856.6	848.6	830.1
55°	437.8	608.6	611.8	777.1	769.5	756.0
60°	350.1	523.5	529.1	694.6	688.1	680.6
65°	263.3	440.2	441.4	614.4	605.8	595.7
70°	181.4	350.5	357.6	531.1	522.0	510.2
75°	106.4	262.6	272.1	446.2	437.3	423.3
80°	27.1	177.3	187.6	359.1	350.1	335.0
85°	9.5	107.1	113.5	275.1	263.5	249.0
90°	10.6	45.7	48.0	190.4	179.0	165.5
95°	20.5	14.0	9.5	115.7	107.3	97.4
100°	22.6	6.0	13.3	39.2	31.9	14.2
105°	21.8	23.3	21.1	6.0	5.0	4.5
110°	20.9	24.8	19.4	6.7	3.9	3.9
115°	20.0	24.3	20.2	20.7	20.3	19.2
120°	19.0	21.8	19.2	21.8	24.4	28.4
125°	16.6	21.5	18.1	20.3	20.9	21.6
130°	13.1	20.7	17.2	14.4	17.2	15.7
135°	11.6	20.2	14.7	14.4	9.0	7.7
140°	10.6	15.9	12.9	13.6	6.9	2.8
145°	7.8	14.0	11.0	11.2	6.7	2.8
150°	6.5	11.9	12.9	9.9	6.2	2.8
155°	5.6	11.2	10.8	10.1	5.8	2.8
160°	5.2	5.8	9.9	9.1	5.4	3.2
165°	3.5	4.9	8.2	7.3	5.0	3.2
170°	3.2	5.2	6.5	6.2	4.5	3.0
175°	3.7	4.1	5.4	5.2	3.9	2.8
180°	3.5	3.5	3.5	3.5	3.5	3.5



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)