

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: P855651

Luminaire Tested: **12SFS-L3C4-UNV-HIGH-3000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855651
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-3000K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

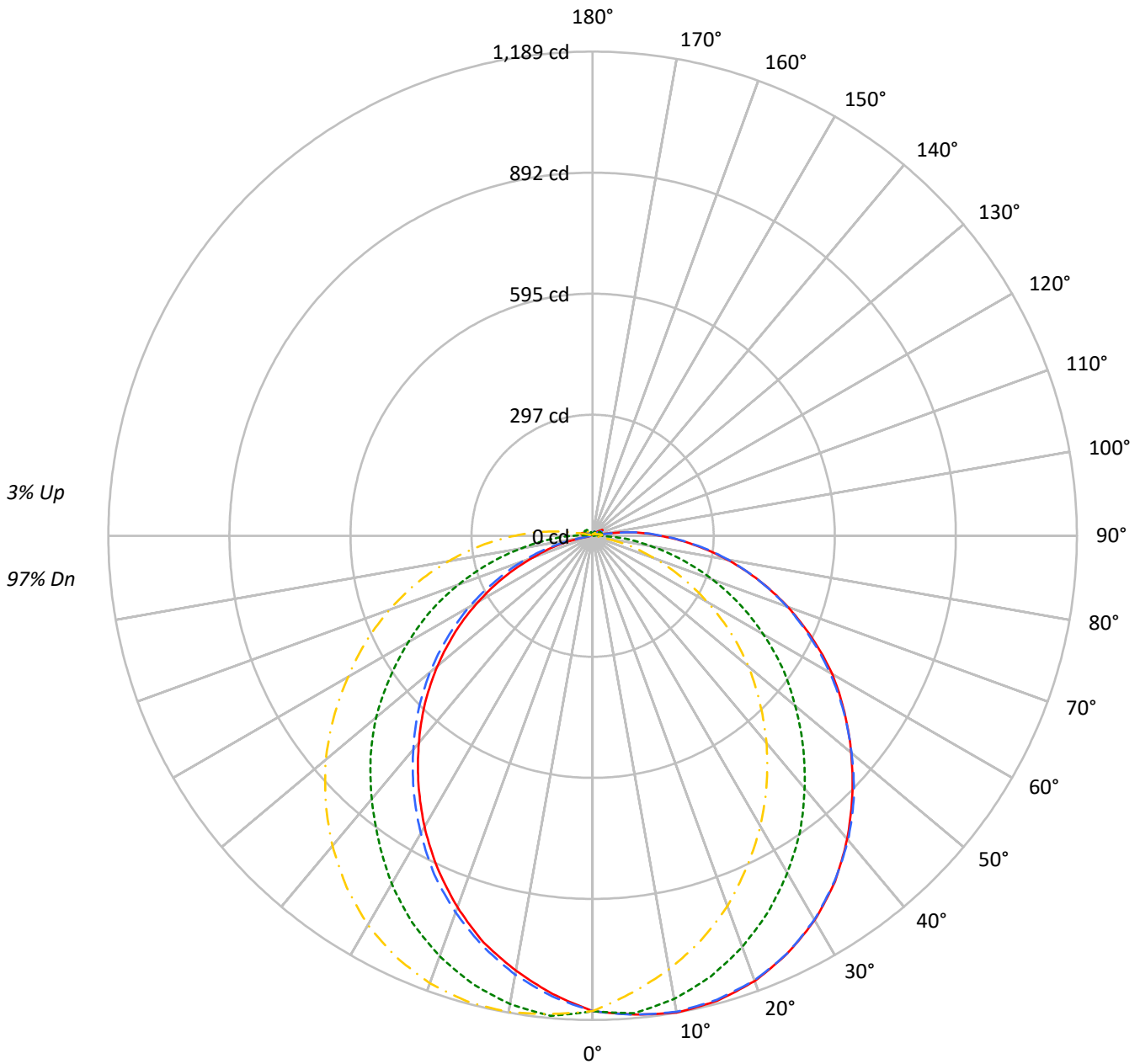
Lumens per Lamp: N/A
Luminaire Lumens: 3510.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 1.9' x H: 0')
CIE Type: Direct

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	34	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°	7187	7187	7187	7187
5°	7294	7273	6981	7315
10°	7433	7220	6780	7299
15°	7537	7142	6592	7263
20°	7624	7039	6360	7198
25°	7690	6925	6120	7120
30°	7751	6796	5868	7016
35°	7795	6672	5602	6882
40°	7815	6509	5334	6781
45°	7852	6361	5066	6713
50°	7939	6216	4762	6648
55°	8102	6122	4412	6522
60°	8368	5961	3990	6436
65°	8665	5812	3472	6404
70°	9171	5619	2798	6300
75°	10052	5367	2075	6236
80°	11858	5092	383	6276
85°	17557	5631	579	7553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.1
10°-20°	314.2	9.0
20°-30°	471.7	13.4
30°-40°	562.6	16.0
40°-50°	580.0	16.5
50°-60°	528.2	15.0
60°-70°	418.8	11.9
70°-80°	272.0	7.8
80°-90°	135.2	3.9
90°-100°	52.8	1.5
100°-110°	17.2	0.5
110°-120°	16.0	0.5
120°-130°	12.9	0.4
130°-140°	8.1	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°	896.3	25.5
0°-40°	1458.9	41.6
0°-60°	2567.1	73.1
0°-90°	3393.0	96.7
90°-120°	86.0	2.5
90°-150°	112.1	3.2
90°-180°	117.0	3.3
0°-180°	3510.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1167	1167	1167	1167	1167	
5°	1180	1177	1129	1183	1180	113
15°	1182	1120	1034	1139	1182	334
25°	1132	1019	901	1048	1132	522
35°	1037	888	745	916	1037	648
45°	902	730	582	771	902	697
55°	755	570	411	608	755	676
65°	595	399	238	440	595	589
75°	422	226	87	262	422	446
85°	248	80	8	107	248	221
90°	165	6	8	46	165	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	21	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°	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2
5°	1180.1	1177.1	1180.4	1182.9	1176.7	1173.4	1125.7	1127.9	1129.4	1129.2	1135.7
10°	1188.8	1183.6	1186.8	1188.3	1154.7	1153.1	1081.1	1085.4	1084.3	1088.0	1094.4
15°	1182.3	1176.7	1179.3	1179.9	1120.3	1120.1	1028.4	1032.5	1034.0	1037.7	1042.9
20°	1163.5	1159.0	1161.6	1159.6	1074.2	1075.7	967.5	969.7	970.5	976.4	984.1
25°	1131.8	1128.5	1131.3	1127.9	1019.3	1021.5	896.1	901.0	900.8	910.1	918.7
30°	1090.1	1086.2	1088.6	1086.4	955.8	960.6	823.8	824.6	825.3	835.6	843.6
35°	1037.0	1035.5	1035.3	1033.3	887.6	890.7	744.9	744.9	745.2	757.2	765.9
40°	972.2	974.8	975.7	970.1	809.7	815.3	664.0	664.6	663.6	675.5	685.1
45°	901.7	905.6	907.3	899.7	730.5	736.5	580.7	583.9	581.8	590.8	605.1
50°	828.7	831.1	830.0	825.9	648.9	657.7	499.3	499.5	497.1	509.5	520.7
55°	754.7	754.4	752.5	746.2	570.3	573.6	412.9	412.1	411.0	424.4	434.8
60°	679.5	672.9	672.6	662.9	484.0	489.8	325.3	327.9	324.0	336.8	350.4
65°	594.7	591.3	589.8	587.1	398.9	406.3	241.3	240.3	238.3	252.6	263.1
70°	509.4	506.2	507.1	502.3	312.1	318.4	159.9	157.2	155.4	170.1	182.4
75°	422.5	421.8	422.0	414.9	225.6	232.3	90.7	91.1	87.2	99.3	106.0
80°	334.4	336.5	337.8	326.4	143.6	154.3	9.5	11.0	10.8	13.8	19.7
85°	248.5	251.0	251.7	243.1	79.7	87.6	5.8	8.0	8.2	8.0	6.9
90°	165.3	168.6	169.2	160.6	5.8	7.3	19.0	8.0	7.5	7.5	13.6
95°	97.3	101.2	99.1	93.3	2.0	8.2	23.7	24.6	25.9	24.4	25.5
100°	14.2	7.5	6.9	6.5	17.3	17.9	19.9	23.8	28.9	27.0	25.2
105°	4.5	5.2	5.0	8.9	22.9	19.9	14.2	21.4	26.3	25.2	18.8
110°	3.9	4.7	17.1	18.1	21.4	17.5	9.7	14.9	17.0	16.6	14.2
115°	19.2	22.2	23.5	18.4	19.7	16.0	8.9	7.3	6.5	8.2	13.8
120°	28.3	22.7	18.4	16.2	18.4	15.3	8.4	6.7	2.6	7.5	12.9
125°	21.6	17.5	11.6	14.5	17.5	14.0	7.5	6.5	2.6	7.3	11.4
130°	15.6	13.4	8.4	14.0	15.6	10.8	8.8	6.0	2.8	7.1	9.7
135°	7.6	8.9	8.6	13.8	13.8	10.8	8.9	5.6	2.8	6.3	8.8
140°	2.8	8.6	8.9	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	7.6	6.5	4.8	3.0	5.4	7.3
150°	2.8	7.3	10.2	9.1	11.2	6.1	5.2	3.9	3.0	4.8	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	10.2	5.8	4.1	3.2	3.0	3.0	3.4	4.3
165°	3.2	5.2	7.6	8.8	4.8	3.4	3.4	3.4	3.5	3.7	3.5
170°	3.0	4.3	5.8	6.7	4.8	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°	1167.2	1167.2	1167.2	1167.2	1167.2	1167.2
5°	1137.6	1183.4	1179.3	1178.8	1179.9	1180.1
10°	1097.2	1167.4	1165.0	1187.7	1188.8	1188.8
15°	1048.2	1139.3	1137.4	1184.2	1183.1	1182.3
20°	987.6	1098.5	1098.3	1169.3	1166.8	1163.5
25°	918.7	1048.0	1048.5	1141.3	1137.0	1131.8
30°	846.2	986.7	992.1	1103.5	1097.7	1090.1
35°	768.0	915.5	925.2	1053.0	1048.7	1037.0
40°	687.8	843.6	851.6	993.6	988.4	972.2
45°	604.8	770.9	773.4	926.7	919.6	901.7
50°	523.3	694.0	694.9	855.1	847.1	828.7
55°	437.1	607.5	610.7	775.8	768.1	754.7
60°	349.5	522.6	528.2	693.4	686.9	679.5
65°	262.9	439.5	440.6	613.3	604.8	594.7
70°	181.1	349.9	357.0	530.2	521.1	509.4
75°	106.2	262.1	271.6	445.5	436.5	422.5
80°	27.0	177.0	187.2	358.5	349.5	334.4
85°	9.5	106.9	113.3	274.6	263.1	248.5
90°	10.6	45.6	47.9	190.0	178.7	165.3
95°	20.5	14.0	9.5	115.5	107.1	97.3
100°	22.5	6.0	13.2	39.1	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°	19.9	24.2	20.1	20.7	20.3	19.2
120°	19.0	21.8	19.2	21.8	24.4	28.3
125°	16.6	21.4	18.1	20.3	20.9	21.6
130°	13.0	20.7	17.1	14.3	17.1	15.6
135°	11.6	20.1	14.7	14.3	8.9	7.6
140°	10.6	15.8	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	6.1	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	4.8	8.2	7.3	5.0	3.2
170°	3.2	5.2	6.5	6.1	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)