

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: P855650

Luminaire Tested: **12SFS-L3C4-NUV-MED-5000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855650
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-NUV-MED-5000K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

Summary

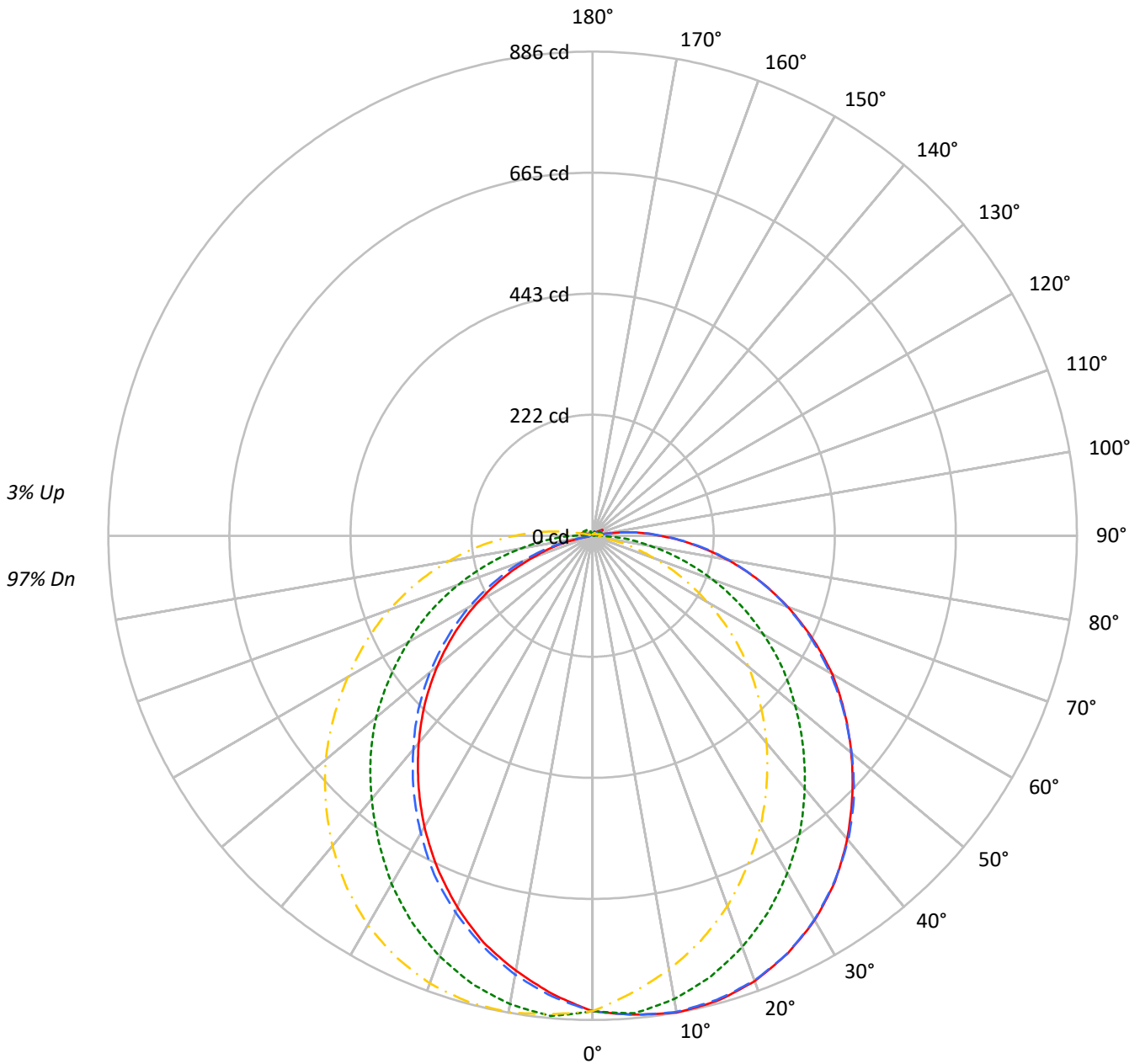
Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.92' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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				
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	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	81	81	81	79
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	68	68	68	65
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	66	61	57	57	57	57	55
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	49	49	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	42	42	42	40
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	37	37	35
7	64	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33	33	33	33	31
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	30	30	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	27	27	27	25
10	52	38	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5357	5357	5357	5357
5°	5436	5421	5203	5452
10°	5540	5381	5053	5440
15°	5618	5322	4912	5413
20°	5682	5246	4740	5365
25°	5731	5162	4562	5307
30°	5776	5065	4374	5229
35°	5810	4973	4175	5129
40°	5824	4851	3976	5054
45°	5853	4741	3776	5004
50°	5916	4633	3549	4955
55°	6039	4563	3288	4861
60°	6236	4442	2974	4797
65°	6458	4332	2588	4773
70°	6834	4188	2085	4695
75°	7492	4002	1546	4649
80°	8837	3798	287	4677
85°	13085	4197	431	5631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.1
10°-20°	234.2	9.0
20°-30°	351.6	13.4
30°-40°	419.3	16.0
40°-50°	432.2	16.5
50°-60°	393.7	15.0
60°-70°	312.1	11.9
70°-80°	202.7	7.8
80°-90°	100.7	3.9
90°-100°	39.4	1.5
100°-110°	12.8	0.5
110°-120°	11.9	0.5
120°-130°	9.6	0.4
130°-140°	6.1	0.2
140°-150°	3.8	0.1
150°-160°	2.3	0.1
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	668.0	25.5
0°-40°	1087.3	41.6
0°-60°	1913.2	73.1
0°-90°	2528.8	96.7
90°-120°	64.1	2.5
90°-150°	83.6	3.2
90°-180°	87.0	3.3
0°-180°	2616.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	870	870	870	870	870	
5°	880	877	842	882	880	84
15°	881	835	771	849	881	249
25°	844	760	671	781	844	389
35°	773	662	555	682	773	483
45°	672	544	434	575	672	519
55°	562	425	306	453	562	504
65°	443	297	178	328	443	439
75°	315	168	65	195	315	332
85°	185	59	6	80	185	164
90°	123	4	6	34	123	69
95°	72	2	19	10	72	44
105°	3	17	20	17	3	5
115°	14	15	5	18	14	13
125°	16	13	2	16	16	15
135°	6	10	2	15	6	5
145°	2	8	2	10	2	1
155°	2	8	2	8	2	1
165°	2	4	3	4	2	1
175°	2	3	2	3	2	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	869.9	869.9	869.9	869.9	869.9	869.9	869.9	869.9	869.9	869.9	869.9
5°	879.5	877.3	879.8	881.6	877.0	874.5	839.0	840.6	841.7	841.6	846.5
10°	886.0	882.1	884.5	885.6	860.6	859.4	805.8	809.0	808.1	810.9	815.6
15°	881.2	877.0	878.9	879.4	834.9	834.8	766.5	769.5	770.6	773.4	777.3
20°	867.1	863.8	865.8	864.2	800.6	801.7	721.1	722.7	723.3	727.7	733.4
25°	843.5	841.0	843.1	840.6	759.7	761.3	667.9	671.5	671.4	678.3	684.7
30°	812.4	809.5	811.3	809.7	712.3	715.9	614.0	614.6	615.1	622.8	628.7
35°	772.9	771.8	771.6	770.1	661.5	663.9	555.1	555.1	555.4	564.3	570.8
40°	724.5	726.5	727.2	723.0	603.5	607.6	494.9	495.3	494.6	503.5	510.6
45°	672.1	675.0	676.2	670.5	544.4	548.9	432.8	435.2	433.6	440.3	451.0
50°	617.6	619.4	618.6	615.5	483.6	490.2	372.1	372.3	370.5	379.8	388.1
55°	562.5	562.2	560.8	556.1	425.0	427.5	307.7	307.1	306.3	316.3	324.1
60°	506.4	501.5	501.3	494.0	360.7	365.0	242.4	244.4	241.5	251.0	261.2
65°	443.2	440.7	439.6	437.5	297.3	302.8	179.8	179.1	177.6	188.3	196.1
70°	379.6	377.3	378.0	374.4	232.6	237.3	119.1	117.2	115.8	126.8	135.9
75°	314.9	314.4	314.5	309.2	168.2	173.2	67.6	67.9	65.0	74.0	79.0
80°	249.2	250.8	251.7	243.3	107.1	115.0	7.1	8.2	8.1	10.3	14.7
85°	185.2	187.0	187.6	181.2	59.4	65.3	4.3	6.0	6.1	6.0	5.1
90°	123.2	125.7	126.1	119.7	4.3	5.4	14.2	6.0	5.6	5.6	10.1
95°	72.5	75.4	73.9	69.6	1.5	6.1	17.6	18.3	19.3	18.2	19.0
100°	10.6	5.6	5.1	4.9	12.9	13.3	14.9	17.8	21.5	20.1	18.7
105°	3.3	3.9	3.7	6.7	17.1	14.9	10.6	16.0	19.6	18.7	14.0
110°	2.9	3.5	12.8	13.5	16.0	13.1	7.2	11.1	12.6	12.4	10.6
115°	14.3	16.5	17.5	13.7	14.7	11.9	6.7	5.4	4.9	6.1	10.3
120°	21.1	16.9	13.7	12.1	13.7	11.4	6.2	5.0	1.9	5.6	9.6
125°	16.1	13.1	8.6	10.8	13.1	10.4	5.6	4.9	1.9	5.4	8.5
130°	11.7	10.0	6.2	10.4	11.7	8.1	6.5	4.4	2.1	5.3	7.2
135°	5.7	6.7	6.4	10.3	10.3	8.1	6.7	4.2	2.1	4.7	6.5
140°	2.1	6.4	6.7	9.2	9.4	7.9	6.2	3.9	1.9	4.3	5.8
145°	2.1	6.0	5.6	8.2	8.3	5.7	4.9	3.6	2.2	4.0	5.4
150°	2.1	5.4	7.6	6.8	8.3	4.6	3.9	2.9	2.2	3.6	4.3
155°	2.1	5.0	8.2	7.2	7.5	2.8	2.8	2.5	2.2	3.1	3.9
160°	2.4	4.4	7.1	7.6	4.3	3.1	2.4	2.2	2.2	2.5	3.2
165°	2.4	3.9	5.7	6.5	3.6	2.5	2.5	2.5	2.6	2.8	2.6
170°	2.2	3.2	4.3	5.0	3.6	2.5	2.5	2.5	2.4	2.5	2.4
175°	2.1	2.8	3.1	2.6	2.8	2.8	2.5	2.2	2.2	2.2	2.4
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	869.9	869.9	869.9	869.9	869.9	869.9
5°	847.8	882.0	878.9	878.5	879.4	879.5
10°	817.7	870.1	868.3	885.2	886.0	886.0
15°	781.2	849.1	847.7	882.6	881.7	881.2
20°	736.1	818.7	818.5	871.5	869.6	867.1
25°	684.7	781.1	781.5	850.6	847.4	843.5
30°	630.7	735.4	739.4	822.4	818.1	812.4
35°	572.4	682.3	689.6	784.8	781.6	772.9
40°	512.7	628.7	634.7	740.5	736.6	724.5
45°	450.7	574.6	576.4	690.7	685.4	672.1
50°	390.0	517.2	517.9	637.3	631.4	617.6
55°	325.8	452.8	455.2	578.2	572.5	562.5
60°	260.5	389.5	393.7	516.8	512.0	506.4
65°	195.9	327.6	328.4	457.1	450.7	443.2
70°	135.0	260.8	266.0	395.2	388.4	379.6
75°	79.1	195.4	202.4	332.0	325.3	314.9
80°	20.1	131.9	139.5	267.2	260.5	249.2
85°	7.1	79.7	84.4	204.7	196.1	185.2
90°	7.9	34.0	35.7	141.6	133.2	123.2
95°	15.3	10.4	7.1	86.1	79.8	72.5
100°	16.8	4.4	9.9	29.2	23.7	10.6
105°	16.2	17.4	15.7	4.4	3.7	3.3
110°	15.6	18.5	14.4	5.0	2.9	2.9
115°	14.9	18.1	15.0	15.4	15.1	14.3
120°	14.2	16.2	14.3	16.2	18.2	21.1
125°	12.4	16.0	13.5	15.1	15.6	16.1
130°	9.7	15.4	12.8	10.7	12.8	11.7
135°	8.6	15.0	11.0	10.7	6.7	5.7
140°	7.9	11.8	9.6	10.1	5.1	2.1
145°	5.8	10.4	8.2	8.3	5.0	2.1
150°	4.9	8.9	9.6	7.4	4.6	2.1
155°	4.2	8.3	8.1	7.5	4.3	2.1
160°	3.9	4.3	7.4	6.8	4.0	2.4
165°	2.6	3.6	6.1	5.4	3.7	2.4
170°	2.4	3.9	4.9	4.6	3.3	2.2
175°	2.8	3.1	4.0	3.9	2.9	2.1
180°	2.6	2.6	2.6	2.6	2.6	2.6



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)