

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: P855649

Luminaire Tested: **12SFS-L3C4-NUV-MED-4000K**

Issue Date: 7/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P855649  
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-4000K  
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,  
MED Lumen and 4000K CCT Settings  
Light Source: -  
Ballast/Driver: -

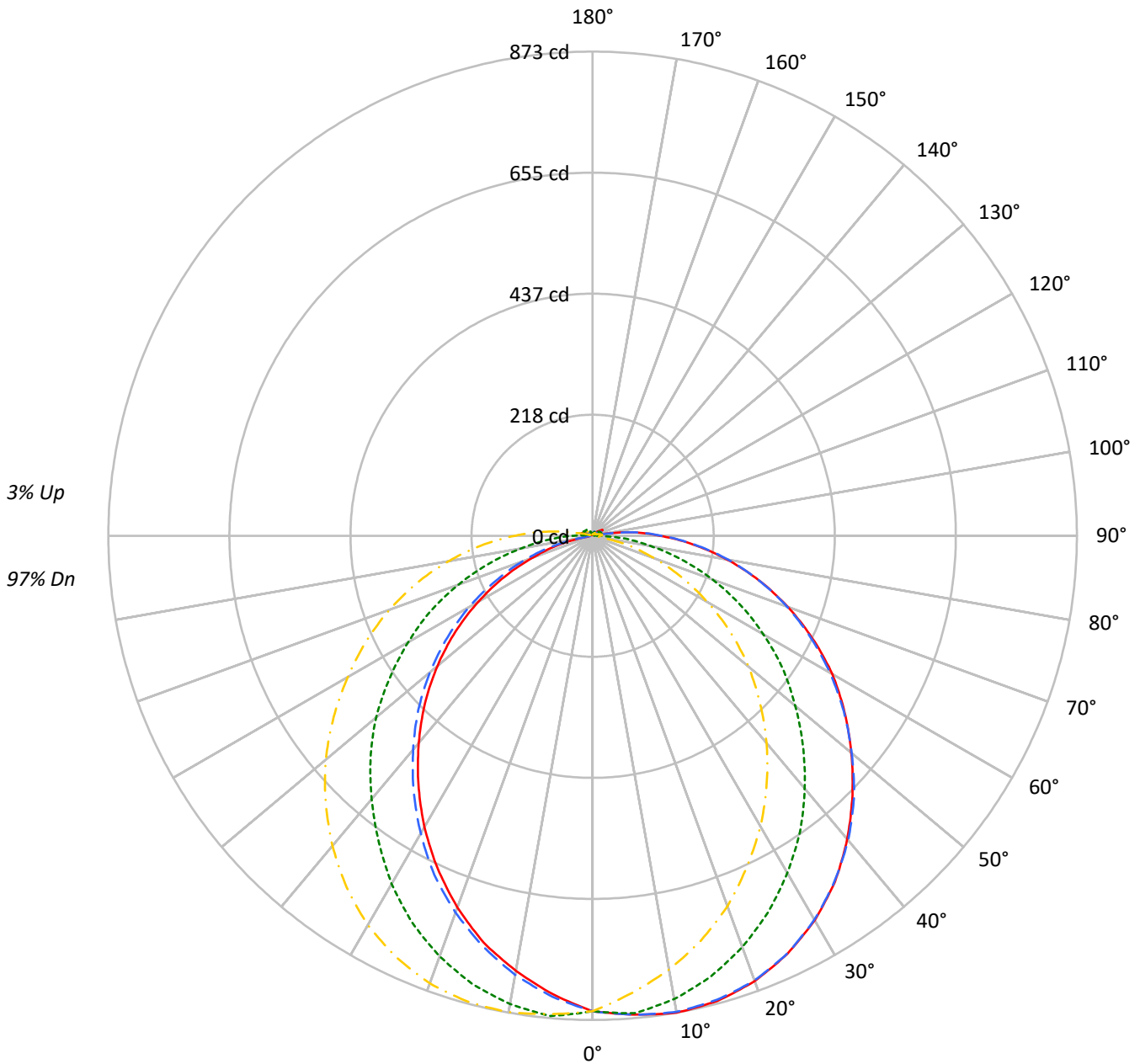
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2578.0 lumens  
Efficiency: N/A  
Efficacy: 128.9 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 (Ain): 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	34	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°	5279	5279	5279	5279
5°	5357	5342	5127	5373
10°	5460	5303	4980	5361
15°	5536	5245	4841	5334
20°	5600	5170	4671	5287
25°	5648	5086	4495	5229
30°	5692	4991	4310	5153
35°	5725	4900	4115	5054
40°	5739	4780	3918	4980
45°	5767	4672	3721	4931
50°	5831	4566	3498	4883
55°	5951	4497	3241	4790
60°	6145	4378	2931	4727
65°	6364	4269	2550	4703
70°	6735	4126	2054	4627
75°	7382	3942	1523	4580
80°	8709	3741	280	4610
85°	12894	4140	424	5546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.1
10°-20°	230.8	9.0
20°-30°	346.5	13.4
30°-40°	413.2	16.0
40°-50°	426.0	16.5
50°-60°	388.0	15.0
60°-70°	307.6	11.9
70°-80°	199.8	7.7
80°-90°	99.3	3.9
90°-100°	38.8	1.5
100°-110°	12.6	0.5
110°-120°	11.7	0.5
120°-130°	9.5	0.4
130°-140°	6.0	0.2
140°-150°	3.7	0.1
150°-160°	2.2	0.1
160°-170°	1.1	0.0
170°-180°	0.3	0.0
0°-30°	658.3	25.5
0°-40°	1071.5	41.6
0°-60°	1885.4	73.1
0°-90°	2492.1	96.7
90°-120°	63.2	2.5
90°-150°	82.3	3.2
90°-180°	86.0	3.3
0°-180°	2578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	857	857	857	857	857	
5°	867	864	830	869	867	83
15°	868	823	759	837	868	245
25°	831	749	662	770	831	383
35°	762	652	547	672	762	476
45°	662	536	427	566	662	512
55°	554	419	302	446	554	496
65°	437	293	175	323	437	433
75°	310	166	64	192	310	328
85°	182	59	6	78	182	162
90°	121	4	6	34	121	68
95°	71	2	19	10	71	44
105°	3	17	19	17	3	5
115°	14	14	5	18	14	13
125°	16	13	2	16	16	14
135°	6	10	2	15	6	5
145°	2	8	2	10	2	1
155°	2	7	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°	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3
5°	866.7	864.5	867.0	868.8	864.3	861.8	826.8	828.4	829.5	829.4	834.2
10°	873.2	869.3	871.7	872.7	848.1	846.9	794.1	797.2	796.4	799.1	803.8
15°	868.4	864.3	866.2	866.6	822.8	822.7	755.3	758.4	759.4	762.2	766.0
20°	854.6	851.3	853.2	851.7	789.0	790.1	710.6	712.2	712.8	717.2	722.8
25°	831.3	828.8	830.9	828.4	748.6	750.3	658.2	661.7	661.6	668.5	674.7
30°	800.6	797.8	799.5	797.9	702.0	705.5	605.1	605.6	606.2	613.7	619.6
35°	761.6	760.5	760.4	758.9	651.9	654.2	547.1	547.1	547.4	556.1	562.5
40°	714.0	715.9	716.6	712.5	594.7	598.8	487.7	488.1	487.4	496.2	503.2
45°	662.3	665.2	666.4	660.8	536.5	540.9	426.5	428.8	427.3	433.9	444.4
50°	608.7	610.4	609.6	606.6	476.6	483.0	366.7	366.9	365.1	374.3	382.5
55°	554.3	554.1	552.7	548.0	418.9	421.3	303.2	302.7	301.9	311.7	319.4
60°	499.0	494.3	494.0	486.9	355.5	359.7	238.9	240.8	238.0	247.4	257.4
65°	436.8	434.3	433.2	431.2	293.0	298.4	177.2	176.5	175.0	185.6	193.2
70°	374.1	371.8	372.5	368.9	229.2	233.9	117.4	115.5	114.1	124.9	134.0
75°	310.3	309.8	309.9	304.7	165.7	170.6	66.6	66.9	64.0	72.9	77.9
80°	245.6	247.1	248.1	239.7	105.5	113.3	7.0	8.1	7.9	10.1	14.5
85°	182.5	184.3	184.9	178.6	58.6	64.3	4.2	5.9	6.0	5.9	5.1
90°	121.4	123.8	124.2	118.0	4.2	5.3	14.0	5.9	5.5	5.5	10.0
95°	71.4	74.3	72.8	68.6	1.5	6.0	17.4	18.1	19.0	17.9	18.7
100°	10.4	5.5	5.1	4.8	12.7	13.1	14.6	17.5	21.2	19.8	18.5
105°	3.3	3.8	3.7	6.6	16.8	14.6	10.4	15.7	19.3	18.5	13.8
110°	2.9	3.4	12.6	13.3	15.7	12.9	7.1	10.9	12.5	12.2	10.4
115°	14.1	16.3	17.2	13.5	14.5	11.8	6.6	5.3	4.8	6.0	10.1
120°	20.8	16.7	13.5	11.9	13.5	11.2	6.2	4.9	1.9	5.5	9.4
125°	15.9	12.9	8.5	10.7	12.9	10.3	5.5	4.8	1.9	5.3	8.3
130°	11.5	9.9	6.2	10.3	11.5	7.9	6.4	4.4	2.1	5.2	7.1
135°	5.6	6.6	6.3	10.1	10.1	7.9	6.6	4.1	2.1	4.7	6.4
140°	2.1	6.3	6.6	9.0	9.3	7.8	6.2	3.8	1.9	4.2	5.7
145°	2.1	5.9	5.5	8.1	8.2	5.6	4.8	3.6	2.2	4.0	5.3
150°	2.1	5.3	7.5	6.7	8.2	4.5	3.8	2.9	2.2	3.6	4.2
155°	2.1	4.9	8.1	7.1	7.4	2.7	2.7	2.5	2.2	3.0	3.8
160°	2.3	4.4	7.0	7.5	4.2	3.0	2.3	2.2	2.2	2.5	3.1
165°	2.3	3.8	5.6	6.4	3.6	2.5	2.5	2.5	2.6	2.7	2.6
170°	2.2	3.1	4.2	4.9	3.6	2.5	2.5	2.5	2.3	2.5	2.3
175°	2.1	2.7	3.0	2.6	2.7	2.7	2.5	2.2	2.2	2.2	2.3
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°	857.3	857.3	857.3	857.3	857.3	857.3
5°	835.5	869.2	866.2	865.8	866.6	866.7
10°	805.8	857.4	855.6	872.3	873.2	873.2
15°	769.8	836.8	835.4	869.7	868.9	868.4
20°	725.4	806.8	806.7	858.8	857.0	854.6
25°	674.7	769.7	770.1	838.3	835.1	831.3
30°	621.5	724.7	728.7	810.5	806.2	800.6
35°	564.0	672.4	679.5	773.4	770.3	761.6
40°	505.2	619.6	625.5	729.8	725.9	714.0
45°	444.2	566.2	568.0	680.6	675.4	662.3
50°	384.4	509.7	510.4	628.1	622.2	608.7
55°	321.0	446.2	448.6	569.8	564.2	554.3
60°	256.7	383.8	387.9	509.3	504.5	499.0
65°	193.1	322.8	323.6	450.5	444.2	436.8
70°	133.0	257.0	262.2	389.4	382.7	374.1
75°	78.0	192.5	199.5	327.2	320.6	310.3
80°	19.8	130.0	137.5	263.3	256.7	245.6
85°	7.0	78.5	83.2	201.7	193.2	182.5
90°	7.8	33.5	35.2	139.6	131.2	121.4
95°	15.1	10.3	7.0	84.8	78.7	71.4
100°	16.6	4.4	9.7	28.7	23.4	10.4
105°	16.0	17.1	15.5	4.4	3.7	3.3
110°	15.3	18.2	14.2	4.9	2.9	2.9
115°	14.6	17.8	14.8	15.2	14.9	14.1
120°	14.0	16.0	14.1	16.0	17.9	20.8
125°	12.2	15.7	13.3	14.9	15.3	15.9
130°	9.6	15.2	12.6	10.5	12.6	11.5
135°	8.5	14.8	10.8	10.5	6.6	5.6
140°	7.8	11.6	9.4	10.0	5.1	2.1
145°	5.7	10.3	8.1	8.2	4.9	2.1
150°	4.8	8.8	9.4	7.3	4.5	2.1
155°	4.1	8.2	7.9	7.4	4.2	2.1
160°	3.8	4.2	7.3	6.7	4.0	2.3
165°	2.6	3.6	6.0	5.3	3.7	2.3
170°	2.3	3.8	4.8	4.5	3.3	2.2
175°	2.7	3.0	4.0	3.8	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)