

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: P855660

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

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855660
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-MED-3500K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 3500K CCT Settings
Light Source: -
Ballast/Driver: -

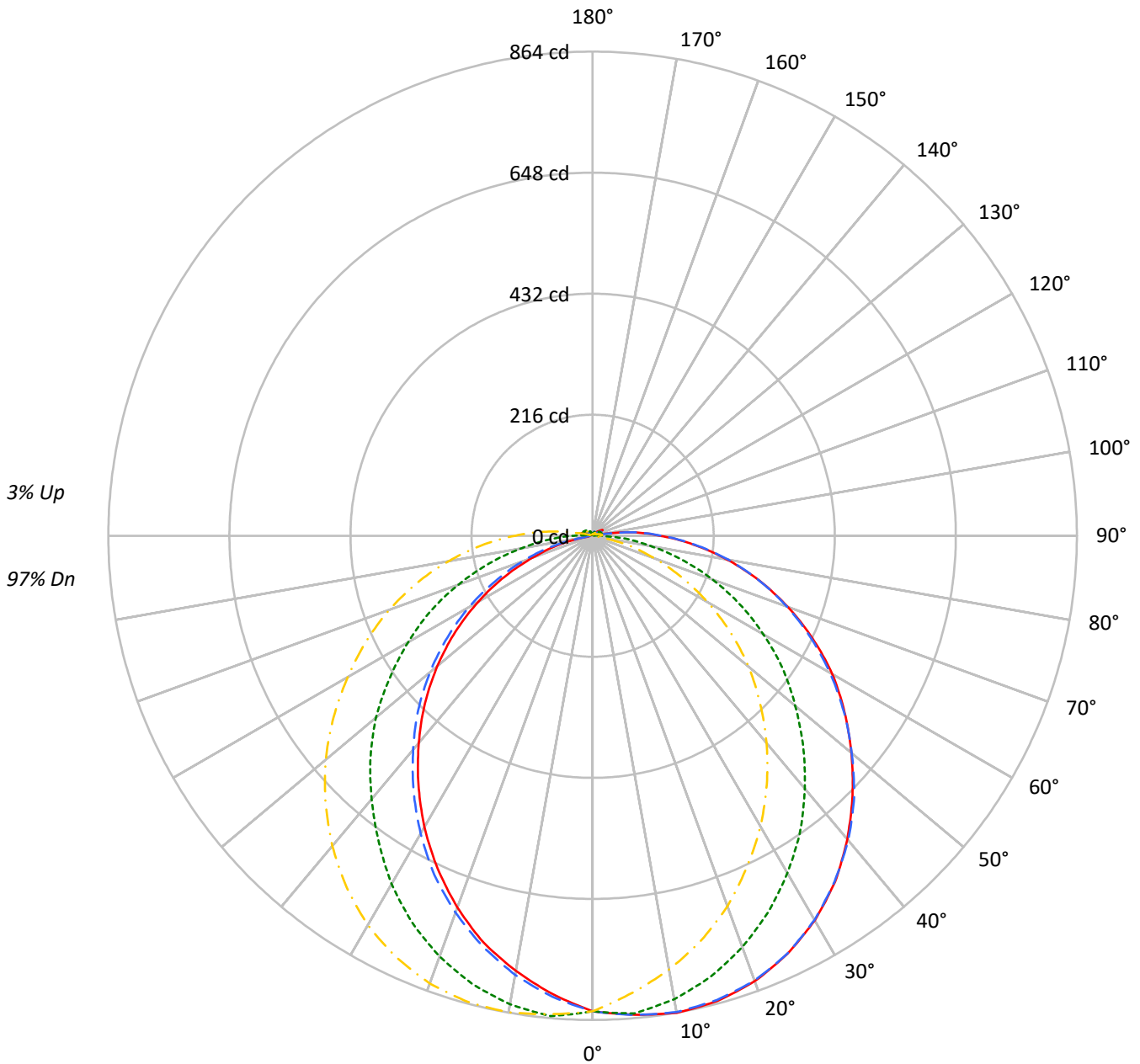
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2552.0 lumens
Efficiency: N/A
Efficacy: 127.6 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): 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				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°	5225	5225	5225	5225
5°	5303	5288	5075	5318
10°	5405	5250	4930	5307
15°	5480	5192	4793	5280
20°	5543	5118	4624	5234
25°	5591	5035	4450	5177
30°	5636	4941	4267	5101
35°	5668	4851	4073	5003
40°	5681	4732	3878	4931
45°	5709	4625	3684	4881
50°	5772	4520	3462	4834
55°	5891	4451	3208	4742
60°	6084	4334	2901	4680
65°	6300	4225	2524	4655
70°	6667	4085	2034	4580
75°	7309	3902	1508	4535
80°	8620	3702	280	4564
85°	12767	4098	424	5497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.1
10°-20°	228.5	9.0
20°-30°	343.0	13.4
30°-40°	409.1	16.0
40°-50°	421.7	16.5
50°-60°	384.0	15.0
60°-70°	304.5	11.9
70°-80°	197.8	7.8
80°-90°	98.3	3.9
90°-100°	38.4	1.5
100°-110°	12.5	0.5
110°-120°	11.6	0.5
120°-130°	9.4	0.4
130°-140°	5.9	0.2
140°-150°	3.7	0.1
150°-160°	2.2	0.1
160°-170°	1.0	0.0
170°-180°	0.3	0.0
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0°-30°	651.6	25.5
0°-40°	1060.7	41.6
0°-60°	1866.4	73.1
0°-90°	2467.0	96.7
90°-120°	62.5	2.5
90°-150°	81.5	3.2
90°-180°	85.0	3.3
0°-180°	2552.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	849	849	849	849	849	
5°	858	856	821	860	858	82
15°	860	814	752	828	860	243
25°	823	741	655	762	823	379
35°	754	645	542	666	754	471
45°	656	531	423	560	656	506
55°	549	415	299	442	549	491
65°	432	290	173	320	432	428
75°	307	164	63	191	307	324
85°	181	58	6	78	181	160
90°	120	4	5	33	120	67
95°	71	2	19	10	71	43
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°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6
5°	858.0	855.8	858.3	860.0	855.5	853.1	818.4	820.1	821.1	821.0	825.7
10°	864.4	860.6	862.9	863.9	839.6	838.3	786.1	789.2	788.4	791.1	795.7
15°	859.6	855.5	857.4	857.9	814.5	814.4	747.7	750.7	751.8	754.5	758.3
20°	845.9	842.7	844.6	843.1	781.0	782.1	703.4	705.1	705.6	709.9	715.5
25°	822.9	820.5	822.5	820.1	741.1	742.7	651.6	655.1	654.9	661.7	667.9
30°	792.6	789.7	791.5	789.9	694.9	698.4	599.0	599.5	600.1	607.5	613.4
35°	754.0	752.9	752.7	751.2	645.3	647.6	541.6	541.6	541.8	550.5	556.9
40°	706.8	708.7	709.4	705.3	588.7	592.8	482.8	483.2	482.5	491.2	498.1
45°	655.6	658.5	659.7	654.1	531.1	535.5	422.2	424.5	423.0	429.5	440.0
50°	602.5	604.3	603.5	600.5	471.8	478.2	363.0	363.2	361.4	370.5	378.6
55°	548.7	548.5	547.1	542.5	414.6	417.1	300.2	299.6	298.8	308.6	316.2
60°	494.0	489.3	489.0	482.0	351.9	356.1	236.5	238.4	235.6	244.9	254.8
65°	432.4	429.9	428.9	426.8	290.0	295.4	175.4	174.7	173.2	183.7	191.3
70°	370.3	368.0	368.7	365.2	226.9	231.5	116.2	114.3	113.0	123.7	132.6
75°	307.2	306.7	306.8	301.7	164.0	168.9	66.0	66.2	63.4	72.2	77.1
80°	243.1	244.6	245.6	237.3	104.4	112.2	6.9	8.0	7.9	10.0	14.4
85°	180.7	182.5	183.0	176.8	58.0	63.7	4.2	5.8	6.0	5.8	5.0
90°	120.2	122.6	123.0	116.8	4.2	5.3	13.8	5.8	5.4	5.4	9.9
95°	70.7	73.6	72.1	67.9	1.5	6.0	17.2	17.9	18.8	17.7	18.6
100°	10.3	5.4	5.0	4.7	12.6	13.0	14.5	17.3	21.0	19.6	18.3
105°	3.3	3.8	3.7	6.5	16.7	14.5	10.3	15.6	19.1	18.3	13.7
110°	2.8	3.4	12.5	13.1	15.6	12.7	7.0	10.8	12.3	12.1	10.3
115°	14.0	16.1	17.1	13.4	14.4	11.6	6.5	5.3	4.7	6.0	10.0
120°	20.6	16.5	13.4	11.8	13.4	11.1	6.1	4.9	1.9	5.4	9.3
125°	15.7	12.7	8.4	10.6	12.7	10.2	5.4	4.7	1.9	5.3	8.3
130°	11.4	9.8	6.1	10.2	11.4	7.9	6.4	4.3	2.0	5.1	7.0
135°	5.6	6.5	6.2	10.0	10.0	7.9	6.5	4.1	2.0	4.6	6.4
140°	2.0	6.2	6.5	8.9	9.2	7.7	6.1	3.8	1.9	4.2	5.7
145°	2.0	5.8	5.4	8.0	8.1	5.6	4.7	3.5	2.2	3.9	5.3
150°	2.0	5.3	7.5	6.6	8.1	4.5	3.8	2.8	2.2	3.5	4.2
155°	2.0	4.9	8.0	7.0	7.3	2.7	2.7	2.4	2.2	3.0	3.8
160°	2.3	4.3	6.9	7.5	4.2	3.0	2.3	2.2	2.2	2.4	3.1
165°	2.3	3.8	5.6	6.4	3.5	2.4	2.4	2.4	2.6	2.7	2.6
170°	2.2	3.1	4.2	4.9	3.5	2.4	2.4	2.4	2.3	2.4	2.3
175°	2.0	2.7	3.0	2.6	2.7	2.7	2.4	2.2	2.2	2.2	2.3
180°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	848.6	848.6	848.6	848.6	848.6	848.6
5°	827.1	860.4	857.4	857.0	857.9	858.0
10°	797.7	848.8	847.0	863.5	864.4	864.4
15°	762.1	828.3	827.0	861.0	860.2	859.6
20°	718.1	798.7	798.5	850.1	848.4	845.9
25°	667.9	761.9	762.4	829.8	826.7	822.9
30°	615.2	717.4	721.3	802.3	798.1	792.6
35°	558.4	665.6	672.7	765.6	762.5	754.0
40°	500.1	613.4	619.2	722.4	718.6	706.8
45°	439.7	560.5	562.3	673.8	668.6	655.6
50°	380.5	504.6	505.3	621.7	615.9	602.5
55°	317.8	441.7	444.0	564.0	558.5	548.7
60°	254.1	380.0	384.0	504.2	499.4	494.0
65°	191.1	319.5	320.4	445.9	439.7	432.4
70°	131.7	254.4	259.5	385.5	378.9	370.3
75°	77.2	190.6	197.5	323.9	317.4	307.2
80°	19.6	128.7	136.1	260.6	254.1	243.1
85°	6.9	77.8	82.4	199.7	191.3	180.7
90°	7.7	33.2	34.8	138.2	129.9	120.2
95°	14.9	10.2	6.9	84.0	77.9	70.7
100°	16.4	4.3	9.6	28.4	23.2	10.3
105°	15.8	16.9	15.3	4.3	3.7	3.3
110°	15.2	18.0	14.1	4.9	2.8	2.8
115°	14.5	17.6	14.6	15.0	14.8	14.0
120°	13.8	15.8	14.0	15.8	17.7	20.6
125°	12.1	15.6	13.1	14.8	15.2	15.7
130°	9.5	15.0	12.5	10.4	12.5	11.4
135°	8.4	14.6	10.7	10.4	6.5	5.6
140°	7.7	11.5	9.3	9.9	5.0	2.0
145°	5.7	10.2	8.0	8.1	4.9	2.0
150°	4.7	8.7	9.3	7.2	4.5	2.0
155°	4.1	8.1	7.9	7.3	4.2	2.0
160°	3.8	4.2	7.2	6.6	3.9	2.3
165°	2.6	3.5	6.0	5.3	3.7	2.3
170°	2.3	3.8	4.7	4.5	3.3	2.2
175°	2.7	3.0	3.9	3.8	2.8	2.0
180°	2.5	2.5	2.5	2.5	2.5	2.5



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)