

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: P855659

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

Issue Date: 7/17/2024



Test Information

Test Method: LM-79-08
Report Number: P855659
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-3000K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
MED Lumen and 3000K CCT Settings
Light Source: -
Ballast/Driver: -

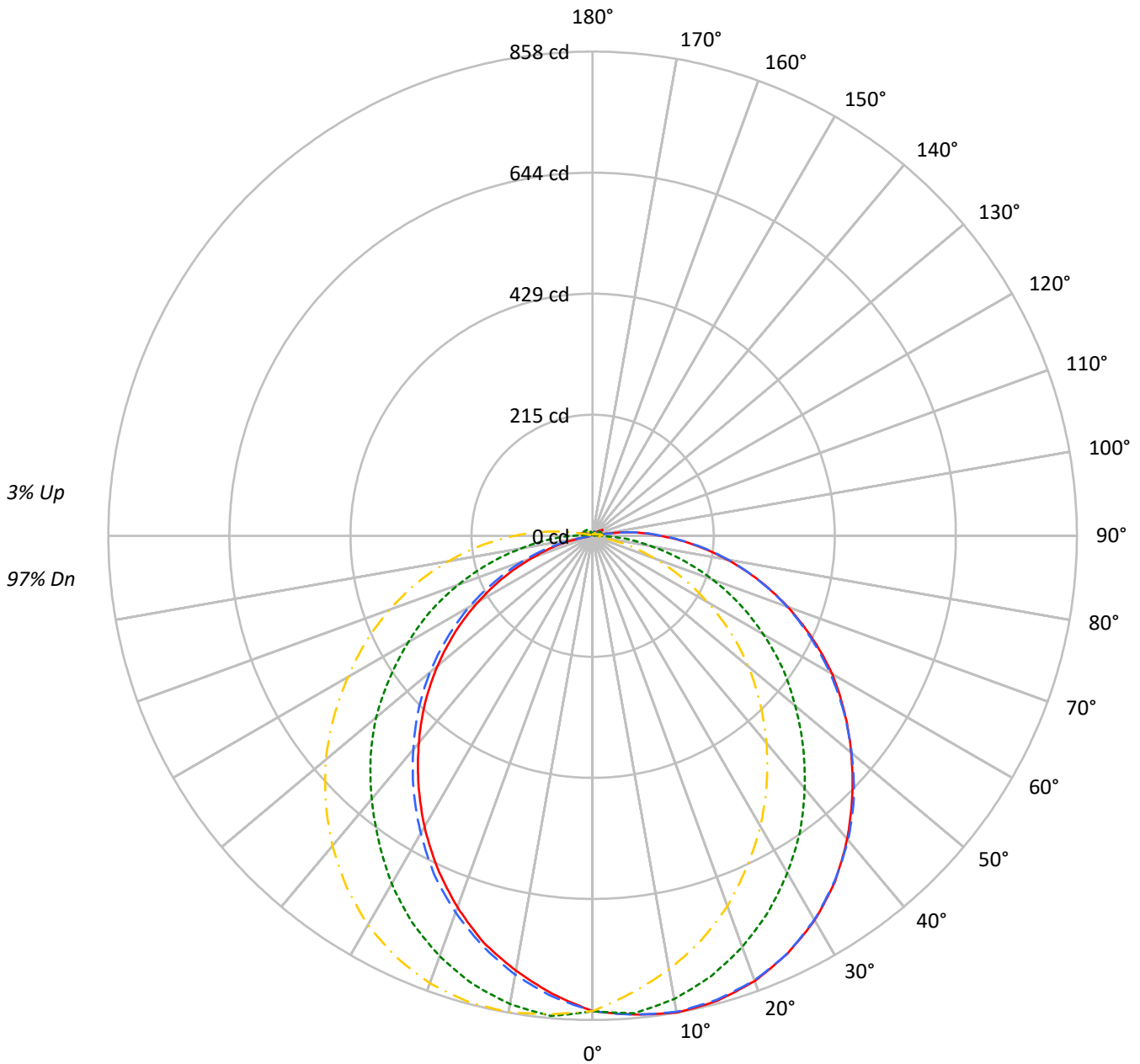
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533.0 lumens
Efficiency: N/A
Efficacy: 126.7 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	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°	5187	5187	5187	5187
5°	5264	5249	5038	5279
10°	5364	5210	4893	5268
15°	5439	5153	4757	5241
20°	5502	5080	4589	5194
25°	5550	4998	4417	5138
30°	5594	4904	4235	5062
35°	5625	4815	4043	4967
40°	5640	4697	3850	4894
45°	5666	4591	3657	4844
50°	5729	4486	3436	4797
55°	5848	4418	3184	4706
60°	6038	4302	2879	4644
65°	6254	4195	2506	4622
70°	6618	4054	2018	4546
75°	7254	3873	1496	4501
80°	8557	3677	277	4528
85°	12675	4062	417	5454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.1
10°-20°	226.8	9.0
20°-30°	340.4	13.4
30°-40°	406.0	16.0
40°-50°	418.5	16.5
50°-60°	381.2	15.0
60°-70°	302.2	11.9
70°-80°	196.3	7.8
80°-90°	97.5	3.9
90°-100°	38.1	1.5
100°-110°	12.4	0.5
110°-120°	11.5	0.5
120°-130°	9.3	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°	646.8	25.5
0°-40°	1052.8	41.6
0°-60°	1852.5	73.1
0°-90°	2448.6	96.7
90°-120°	62.1	2.5
90°-150°	80.9	3.2
90°-180°	84.0	3.3
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	842	842	842	842	842	
5°	852	849	815	854	852	81
15°	853	808	746	822	853	241
25°	817	736	650	756	817	377
35°	748	640	538	661	748	468
45°	651	527	420	556	651	503
55°	545	412	297	438	545	488
65°	429	288	172	317	429	425
75°	305	163	63	189	305	322
85°	179	58	6	77	179	159
90°	119	4	5	33	119	67
95°	70	2	19	10	70	43
105°	3	16	19	17	3	5
115°	14	14	5	18	14	13
125°	16	13	2	16	16	14
135°	6	10	2	14	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	



TEST NUMBER: P855659

CATALOG NUMBER: 12SFS-L3C4-UNV-MED-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3
5°	851.6	849.4	851.9	853.6	849.2	846.8	812.3	814.0	815.0	814.9	819.6
10°	857.9	854.2	856.4	857.5	833.3	832.1	780.2	783.3	782.5	785.2	789.8
15°	853.2	849.2	851.1	851.5	808.4	808.3	742.2	745.1	746.2	748.9	752.6
20°	839.6	836.4	838.3	836.8	775.2	776.3	698.2	699.8	700.3	704.6	710.2
25°	816.8	814.4	816.4	814.0	735.6	737.2	646.7	650.2	650.1	656.8	663.0
30°	786.7	783.8	785.6	784.0	689.7	693.2	594.5	595.1	595.6	603.0	608.8
35°	748.3	747.3	747.1	745.7	640.5	642.8	537.5	537.5	537.8	546.4	552.7
40°	701.6	703.4	704.1	700.1	584.3	588.3	479.2	479.6	478.9	487.5	494.4
45°	650.7	653.6	654.8	649.3	527.2	531.5	419.1	421.4	419.9	426.3	436.7
50°	598.0	599.8	599.0	596.0	468.3	474.6	360.3	360.5	358.7	367.7	375.8
55°	544.7	544.4	543.0	538.5	411.5	414.0	297.9	297.4	296.6	306.3	313.8
60°	490.3	485.6	485.4	478.4	349.3	353.5	234.7	236.6	233.8	243.1	252.9
65°	429.2	426.7	425.7	423.6	287.9	293.2	174.1	173.4	172.0	182.3	189.8
70°	367.6	365.3	366.0	362.5	225.2	229.8	115.4	113.5	112.1	122.8	131.6
75°	304.9	304.4	304.5	299.4	162.8	167.7	65.5	65.7	62.9	71.7	76.5
80°	241.3	242.8	243.8	235.6	103.7	111.3	6.9	7.9	7.8	9.9	14.3
85°	179.4	181.1	181.6	175.5	57.5	63.2	4.2	5.8	5.9	5.8	5.0
90°	119.3	121.7	122.1	115.9	4.2	5.2	13.7	5.8	5.4	5.4	9.8
95°	70.2	73.0	71.5	67.4	1.5	5.9	17.1	17.7	18.7	17.6	18.4
100°	10.2	5.4	5.0	4.7	12.5	12.9	14.4	17.2	20.8	19.5	18.2
105°	3.2	3.8	3.6	6.5	16.5	14.4	10.2	15.5	19.0	18.2	13.6
110°	2.8	3.4	12.4	13.0	15.5	12.6	7.0	10.8	12.2	12.0	10.2
115°	13.8	16.0	16.9	13.3	14.3	11.6	6.5	5.2	4.7	5.9	9.9
120°	20.4	16.4	13.3	11.7	13.3	11.0	6.1	4.8	1.9	5.4	9.3
125°	15.6	12.6	8.3	10.5	12.6	10.1	5.4	4.7	1.9	5.2	8.2
130°	11.3	9.7	6.1	10.1	11.3	7.8	6.3	4.3	2.0	5.1	7.0
135°	5.5	6.5	6.2	9.9	9.9	7.8	6.5	4.0	2.0	4.6	6.3
140°	2.0	6.2	6.5	8.9	9.1	7.7	6.1	3.8	1.9	4.2	5.6
145°	2.0	5.8	5.4	7.9	8.1	5.5	4.7	3.5	2.2	3.9	5.2
150°	2.0	5.2	7.4	6.6	8.1	4.4	3.8	2.8	2.2	3.5	4.2
155°	2.0	4.8	7.9	7.0	7.3	2.7	2.7	2.4	2.2	3.0	3.8
160°	2.3	4.3	6.9	7.4	4.2	3.0	2.3	2.2	2.2	2.4	3.1
165°	2.3	3.8	5.5	6.3	3.5	2.4	2.4	2.4	2.6	2.7	2.6
170°	2.2	3.1	4.2	4.8	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°	842.3	842.3	842.3	842.3	842.3	842.3
5°	820.9	854.0	851.1	850.7	851.5	851.6
10°	791.8	842.5	840.7	857.1	857.9	857.9
15°	756.4	822.2	820.8	854.6	853.8	853.2
20°	712.7	792.7	792.6	843.8	842.1	839.6
25°	663.0	756.3	756.7	823.6	820.5	816.8
30°	610.7	712.0	715.9	796.3	792.2	786.7
35°	554.2	660.7	667.7	759.9	756.8	748.3
40°	496.4	608.8	614.6	717.0	713.3	701.6
45°	436.4	556.3	558.1	668.7	663.6	650.7
50°	377.7	500.8	501.5	617.1	611.3	598.0
55°	315.4	438.4	440.7	559.8	554.3	544.7
60°	252.2	377.1	381.2	500.4	495.7	490.3
65°	189.7	317.2	318.0	442.6	436.4	429.2
70°	130.7	252.5	257.6	382.6	376.1	367.6
75°	76.6	189.2	196.0	321.5	315.0	304.9
80°	19.5	127.7	135.1	258.7	252.2	241.3
85°	6.9	77.2	81.7	198.2	189.8	179.4
90°	7.7	32.9	34.6	137.1	128.9	119.3
95°	14.8	10.1	6.9	83.4	77.3	70.2
100°	16.3	4.3	9.5	28.2	23.0	10.2
105°	15.7	16.8	15.2	4.3	3.6	3.2
110°	15.1	17.9	14.0	4.8	2.8	2.8
115°	14.4	17.5	14.5	14.9	14.7	13.8
120°	13.7	15.7	13.8	15.7	17.6	20.4
125°	12.0	15.5	13.0	14.7	15.1	15.6
130°	9.4	14.9	12.4	10.4	12.4	11.3
135°	8.3	14.5	10.6	10.4	6.5	5.5
140°	7.7	11.4	9.3	9.8	5.0	2.0
145°	5.6	10.1	7.9	8.1	4.8	2.0
150°	4.7	8.6	9.3	7.1	4.4	2.0
155°	4.0	8.1	7.8	7.3	4.2	2.0
160°	3.8	4.2	7.1	6.6	3.9	2.3
165°	2.6	3.5	5.9	5.2	3.6	2.3
170°	2.3	3.8	4.7	4.4	3.2	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)