

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: P855654

Luminaire Tested: **12SFS-L3C4-UNV-HIGH-5000K**

Issue Date: 7/17/2024

Test Information

Test Method: LM-79-08
Report Number: P855654
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-5000K
Description: 1x2 Surround Frame Selectable - Architectural Slim LED Frame with,
HIGH Lumen and 5000K CCT Settings
Light Source: -
Ballast/Driver: -

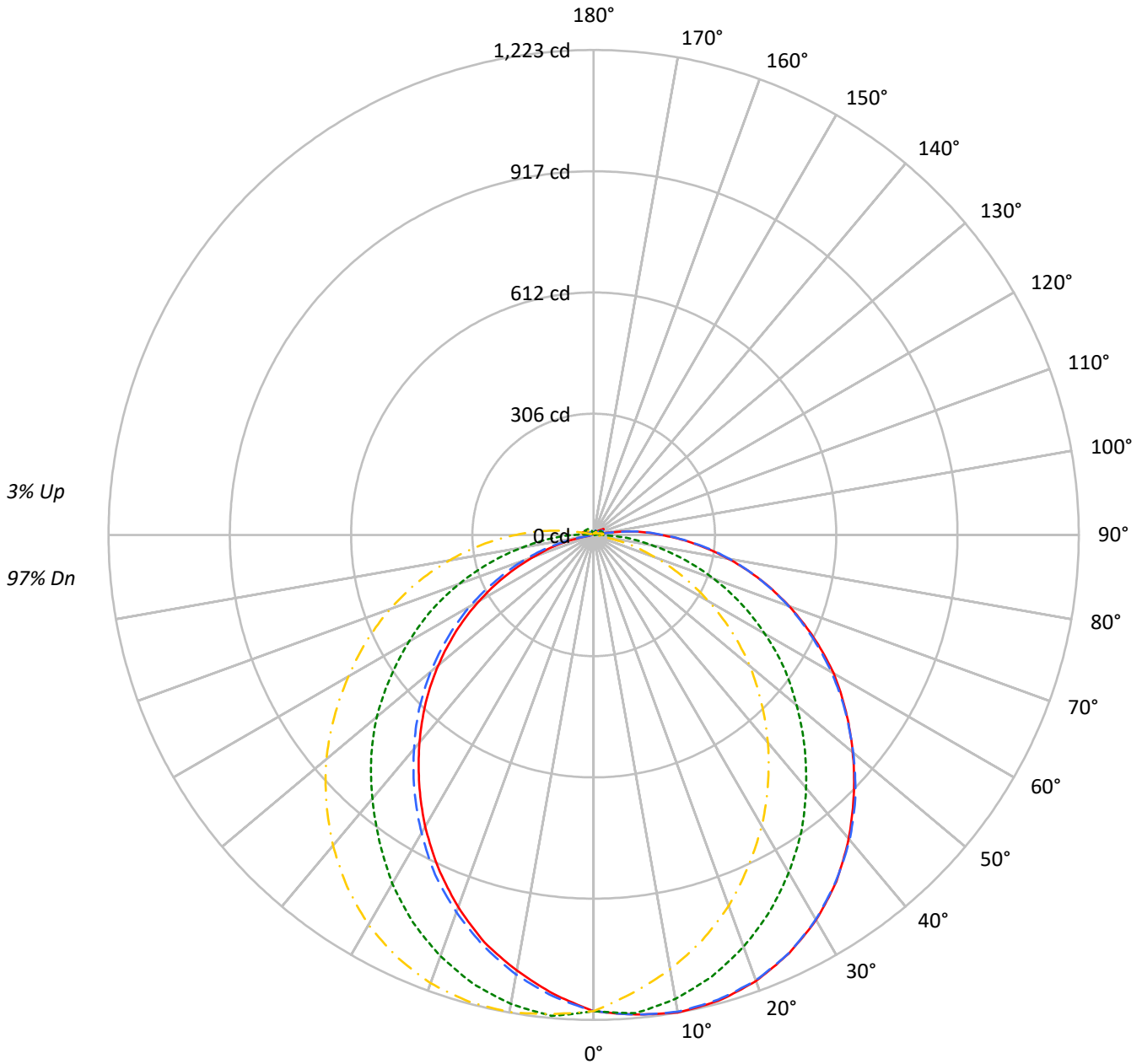
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.0 lumens
Efficiency: N/A
Efficacy: 129.0 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	81	79																		
2	97	88	81	75	94	86	80	74	82	76	72	78	74	70	75	71	68	68	65																		
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	66	61	57	57	55																		
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	49	46																		
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	42	40																		
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	37	35																		
7	64	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33	33	31																		
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	30	30	28																		
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	27	25																		
10	52	38	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	24	22																		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7394	7394	7394	7394
5°	7504	7483	7182	7526
10°	7647	7428	6975	7509
15°	7754	7347	6782	7472
20°	7844	7242	6542	7405
25°	7911	7124	6296	7325
30°	7973	6991	6037	7218
35°	8019	6864	5763	7080
40°	8039	6696	5488	6976
45°	8079	6544	5213	6906
50°	8167	6395	4899	6840
55°	8335	6299	4539	6710
60°	8608	6133	4105	6621
65°	8914	5980	3571	6587
70°	9434	5779	2879	6481
75°	10342	5522	2134	6417
80°	12198	5241	394	6457
85°	18065	5793	593	7772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.1
10°-20°	323.3	9.0
20°-30°	485.3	13.4
30°-40°	578.8	16.0
40°-50°	596.7	16.5
50°-60°	543.4	15.0
60°-70°	430.8	11.9
70°-80°	279.9	7.8
80°-90°	139.0	3.9
90°-100°	54.4	1.5
100°-110°	17.7	0.5
110°-120°	16.5	0.5
120°-130°	13.2	0.4
130°-140°	8.4	0.2
140°-150°	5.2	0.1
150°-160°	3.2	0.1
160°-170°	1.5	0.0
170°-180°	0.4	0.0
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0°-30°	922.0	25.5
0°-40°	1500.9	41.6
0°-60°	2640.9	73.1
0°-90°	3490.7	96.7
90°-120°	88.5	2.5
90°-150°	115.3	3.2
90°-180°	120.0	3.3
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1201	1201	1201	1201	1201	
5°	1214	1211	1162	1218	1214	116
15°	1216	1152	1064	1172	1216	344
25°	1164	1049	927	1078	1164	537
35°	1067	913	767	942	1067	667
45°	928	752	599	793	928	717
55°	776	587	423	625	776	695
65°	612	410	245	452	612	606
75°	435	232	90	270	435	459
85°	256	82	8	110	256	227
90°	170	6	8	47	170	95
95°	100	2	27	14	100	61
105°	5	24	27	24	5	7
115°	20	20	7	25	20	18
125°	22	18	3	22	22	20
135°	8	14	3	21	8	7
145°	3	12	3	14	3	2
155°	3	10	3	12	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°	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8
5°	1214.0	1211.0	1214.4	1216.9	1210.6	1207.1	1158.1	1160.4	1161.9	1161.7	1168.4
10°	1223.0	1217.7	1220.9	1222.5	1188.0	1186.2	1112.2	1116.7	1115.5	1119.3	1125.9
15°	1216.3	1210.6	1213.3	1213.8	1152.5	1152.3	1058.0	1062.2	1063.8	1067.6	1073.0
20°	1197.0	1192.4	1195.1	1192.9	1105.2	1106.7	995.3	997.6	998.4	1004.5	1012.4
25°	1164.4	1160.9	1163.8	1160.4	1048.6	1050.9	921.9	926.9	926.7	936.3	945.1
30°	1121.4	1117.4	1119.9	1117.6	983.3	988.2	847.6	848.3	849.1	859.6	867.9
35°	1066.8	1065.3	1065.1	1063.0	913.1	916.4	766.3	766.3	766.7	778.9	787.9
40°	1000.1	1002.8	1003.8	998.0	833.0	838.7	683.1	683.7	682.7	695.0	704.8
45°	927.7	931.7	933.4	925.6	751.5	757.7	597.4	600.7	598.6	607.8	622.5
50°	852.5	855.0	853.9	849.7	667.6	676.6	513.7	513.9	511.4	524.2	535.7
55°	776.4	776.1	774.1	767.6	586.7	590.1	424.7	424.0	422.8	436.6	447.4
60°	699.0	692.3	691.9	682.0	498.0	503.9	334.7	337.3	333.3	346.5	360.5
65°	611.8	608.4	606.8	603.9	410.4	418.0	248.2	247.3	245.1	259.9	270.6
70°	524.0	520.8	521.7	516.7	321.0	327.6	164.5	161.8	159.9	175.0	187.6
75°	434.7	433.9	434.1	426.8	232.1	239.0	93.3	93.7	89.7	102.2	109.1
80°	344.0	346.2	347.5	335.8	147.8	158.7	9.8	11.3	11.1	14.2	20.3
85°	255.7	258.2	258.9	250.1	82.0	90.1	5.9	8.2	8.4	8.2	7.1
90°	170.0	173.5	174.0	165.2	5.9	7.5	19.6	8.2	7.7	7.7	14.0
95°	100.1	104.1	102.0	96.0	2.1	8.4	24.3	25.3	26.6	25.1	26.3
100°	14.6	7.7	7.1	6.7	17.8	18.4	20.5	24.5	29.7	27.8	25.9
105°	4.6	5.4	5.2	9.2	23.6	20.5	14.6	22.0	27.0	25.9	19.4
110°	4.0	4.8	17.6	18.6	22.0	18.0	10.0	15.3	17.4	17.1	14.6
115°	19.7	22.8	24.2	19.0	20.3	16.5	9.2	7.5	6.7	8.4	14.2
120°	29.1	23.4	19.0	16.7	19.0	15.7	8.6	6.9	2.7	7.7	13.2
125°	22.2	18.0	11.9	14.9	18.0	14.4	7.7	6.7	2.7	7.5	11.7
130°	16.1	13.8	8.6	14.4	16.1	11.1	9.0	6.1	2.9	7.3	10.0
135°	7.9	9.2	8.8	14.2	14.2	11.1	9.2	5.8	2.9	6.5	9.0
140°	2.9	8.8	9.2	12.6	13.0	10.9	8.6	5.4	2.7	5.9	8.1
145°	2.9	8.2	7.7	11.3	11.5	7.9	6.7	5.0	3.1	5.6	7.5
150°	2.9	7.5	10.5	9.4	11.5	6.3	5.4	4.0	3.1	5.0	5.9
155°	2.9	6.9	11.3	10.0	10.3	3.8	3.8	3.5	3.1	4.2	5.4
160°	3.3	6.1	9.8	10.5	5.9	4.2	3.3	3.1	3.1	3.5	4.4
165°	3.3	5.4	7.9	9.0	5.0	3.5	3.5	3.5	3.6	3.8	3.6
170°	3.1	4.4	5.9	6.9	5.0	3.5	3.5	3.5	3.3	3.5	3.3
175°	2.9	3.8	4.2	3.6	3.8	3.8	3.5	3.1	3.1	3.1	3.3
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1200.8	1200.8	1200.8	1200.8	1200.8	1200.8
5°	1170.3	1217.5	1213.3	1212.7	1213.8	1214.0
10°	1128.7	1201.0	1198.5	1221.9	1223.0	1223.0
15°	1078.3	1172.1	1170.1	1218.2	1217.1	1216.3
20°	1016.0	1130.1	1129.9	1202.9	1200.4	1197.0
25°	945.1	1078.1	1078.7	1174.2	1169.8	1164.4
30°	870.6	1015.1	1020.6	1135.2	1129.3	1121.4
35°	790.1	941.9	951.8	1083.3	1078.9	1066.8
40°	707.6	867.9	876.1	1022.2	1016.8	1000.1
45°	622.2	793.1	795.6	953.4	946.1	927.7
50°	538.4	714.0	714.9	879.8	871.5	852.5
55°	449.7	625.0	628.3	798.1	790.2	776.4
60°	359.6	537.6	543.4	713.4	706.7	699.0
65°	270.4	452.1	453.3	631.0	622.2	611.8
70°	186.3	360.0	367.2	545.5	536.1	524.0
75°	109.3	269.7	279.5	458.3	449.1	434.7
80°	27.8	182.1	192.6	368.8	359.6	344.0
85°	9.8	110.0	116.5	282.5	270.6	255.7
90°	10.9	47.0	49.3	195.5	183.8	170.0
95°	21.1	14.4	9.8	118.8	110.2	100.1
100°	23.2	6.1	13.6	40.3	32.8	14.6
105°	22.4	24.0	21.7	6.1	5.2	4.6
110°	21.5	25.5	19.9	6.9	4.0	4.0
115°	20.5	24.9	20.7	21.3	20.9	19.7
120°	19.6	22.4	19.7	22.4	25.1	29.1
125°	17.1	22.0	18.6	20.9	21.5	22.2
130°	13.4	21.3	17.6	14.8	17.6	16.1
135°	11.9	20.7	15.1	14.8	9.2	7.9
140°	10.9	16.3	13.2	14.0	7.1	2.9
145°	8.1	14.4	11.3	11.5	6.9	2.9
150°	6.7	12.3	13.2	10.2	6.3	2.9
155°	5.8	11.5	11.1	10.3	5.9	2.9
160°	5.4	5.9	10.2	9.4	5.6	3.3
165°	3.6	5.0	8.4	7.5	5.2	3.3
170°	3.3	5.4	6.7	6.3	4.6	3.1
175°	3.8	4.2	5.6	5.4	4.0	2.9
180°	3.6	3.6	3.6	3.6	3.6	3.6



Report Generated By 670246072 / DESKTOP-50001EG





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









(END OF REPORT)