

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: AMETRIX

Report Number: P508487

Luminaire Tested: **ASYX-X-SL-X-U-W-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508487
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-SL-X-U-W-L27-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

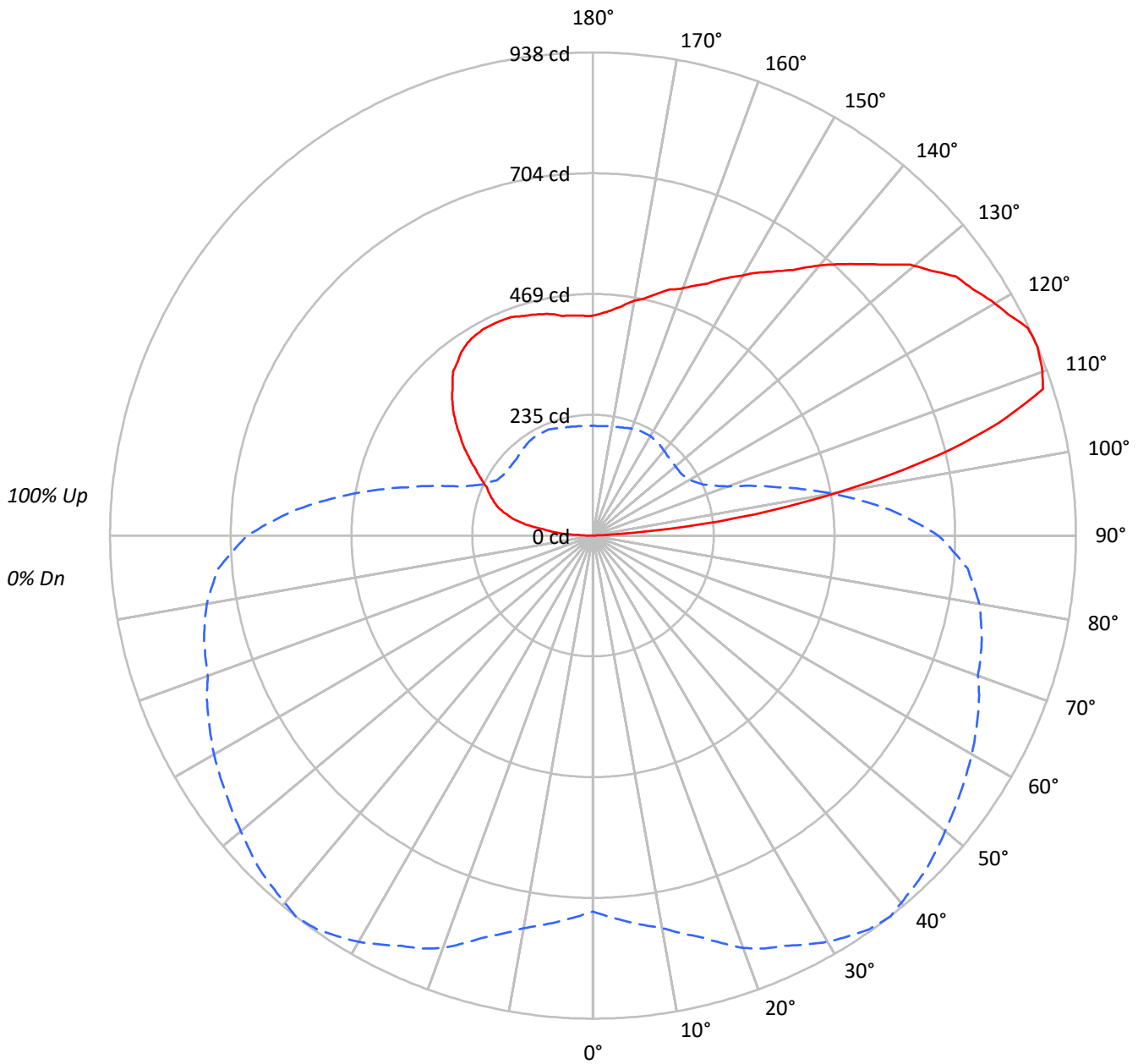
Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.8
Input Voltage (V): 120
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: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



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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	
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
95°	26182	29146	37051
100°	71409	55292	33721
105°	71532	59056	30942
110°	79686	72636	26058
115°	84050	72843	21700
120°	78792	64153	20150
125°	68835	54873	20042
130°	59213	45548	20765
135°	50234	39091	21129
140°	42154	33273	21808
145°	35637	29277	21865
150°	30327	25952	21925
155°	26556	23231	21330
160°	23917	21168	20756
165°	21931	19925	19880
170°	20373	18974	19062
175°	19060	18498	18412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	115.4	4.1
100°-110°	417.8	14.8
110°-120°	563.2	20.0
120°-130°	536.0	19.0
130°-140°	446.6	15.8
140°-150°	338.3	12.0
150°-160°	230.2	8.2
160°-170°	130.8	4.6
170°-180°	41.6	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	1096.4	38.9
90°-150°	2417.3	85.7
90°-180°	2820.0	100.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	53	173	59	59	75	94
105°	430	878	355	157	186	466
115°	825	898	715	227	213	795
125°	917	821	731	305	267	818
135°	825	707	642	387	347	639
145°	678	603	557	440	416	429
155°	559	530	489	456	449	261
165°	492	477	447	444	446	140
175°	441	435	428	427	426	43
180°	426	426	426	426	426	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	38°	40°
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	8	8	8	9	10	11	11	14	18	19	22
95°	53	61	91	105	106	109	109	138	172	180	188
97.5°	142	152	184	209	245	255	267	291	328	350	361
100°	288	290	307	330	369	391	418	484	517	517	505
102.5°	365	367	382	404	450	483	514	594	661	686	696
105°	430	437	453	484	540	577	606	697	775	818	851
107.5°	513	524	551	587	654	697	734	808	876	919	918
110°	633	639	667	714	772	806	829	881	927	931	933
112.5°	730	752	774	807	852	868	879	911	934	938	931
115°	825	833	844	866	887	903	905	922	927	936	920
117.5°	884	888	889	897	908	917	915	920	926	914	906
120°	915	919	912	915	918	920	916	918	907	898	889
122.5°	927	926	919	919	915	914	906	899	891	879	868
125°	917	921	912	905	896	911	891	884	870	866	845
127.5°	904	912	897	890	881	878	866	856	846	835	821
130°	884	887	873	866	857	848	846	824	817	810	791
132.5°	864	859	845	836	825	820	815	796	786	771	761
135°	825	826	813	803	788	788	779	765	752	739	726
137.5°	788	795	776	767	759	753	741	728	714	709	699
140°	750	751	736	728	722	711	704	692	687	678	664
142.5°	717	713	701	692	686	678	674	662	654	646	641
145°	678	677	663	657	652	649	642	633	629	622	622
147.5°	645	640	632	625	619	616	616	600	603	602	593
150°	610	609	598	595	590	592	590	583	583	579	573
152.5°	582	582	573	571	569	568	564	561	561	560	553
155°	559	559	552	551	548	547	545	542	540	538	532
157.5°	540	539	531	532	529	529	528	522	524	523	519
160°	522	521	513	516	514	514	514	510	508	508	499
162.5°	506	508	500	499	500	500	496	493	496	499	490
165°	492	490	487	486	484	482	484	482	480	484	481
167.5°	478	480	474	472	472	476	473	469	471	470	464
170°	466	468	460	460	460	460	457	454	459	461	454
172.5°	454	457	450	449	448	450	448	445	451	448	445
175°	441	446	439	438	440	440	438	436	440	438	436
177.5°	435	435	428	429	429	428	431	430	431	431	435
180°	426	426	426	426	426	426	426	426	426	426	426



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CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	23	27	29	16	16	18	17	15	13	12	12
95°	173	164	169	152	132	116	115	116	80	60	59
97.5°	372	368	337	289	275	276	259	215	180	154	133
100°	484	471	457	467	439	417	386	347	306	271	223
102.5°	690	670	619	563	507	487	464	420	377	336	287
105°	878	844	758	678	602	579	549	500	450	409	355
107.5°	923	898	850	796	730	692	664	611	564	508	446
110°	927	902	872	835	803	781	763	723	689	640	577
112.5°	916	893	871	850	825	812	796	782	762	730	671
115°	898	878	858	840	828	822	814	803	792	768	715
117.5°	881	858	840	834	823	814	813	811	804	792	741
120°	864	846	828	815	811	810	810	804	806	796	745
122.5°	837	823	808	802	785	789	791	787	795	788	740
125°	821	807	788	779	776	772	776	769	773	768	731
127.5°	794	776	766	759	757	743	750	751	752	744	711
130°	765	755	732	735	735	730	731	727	725	718	680
132.5°	744	731	716	712	708	707	707	700	700	691	666
135°	707	698	692	688	687	683	683	676	675	667	642
137.5°	681	672	667	664	661	654	658	652	646	644	620
140°	655	648	644	639	638	634	634	627	625	616	592
142.5°	633	629	621	619	612	613	608	609	601	591	572
145°	603	604	600	596	595	589	590	584	579	572	557
147.5°	587	587	581	576	572	571	566	567	559	549	539
150°	566	564	558	555	552	552	547	544	538	535	522
152.5°	551	546	543	537	537	532	528	526	521	515	505
155°	530	528	524	523	519	515	508	507	504	498	489
157.5°	513	516	510	507	501	500	493	494	488	484	476
160°	505	500	494	493	491	483	482	479	475	472	462
162.5°	487	486	483	481	474	474	462	467	464	461	456
165°	477	478	471	469	467	463	460	457	454	452	447
167.5°	464	462	460	456	457	454	451	449	447	445	441
170°	453	452	450	447	448	445	445	441	440	439	434
172.5°	444	444	442	442	441	438	436	434	434	432	431
175°	435	436	435	434	434	432	432	433	431	431	428
177.5°	428	428	428	428	428	428	428	427	428	427	424
180°	426	426	426	426	426	426	426	426	426	426	426



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CANDELA DISTRIBUTION (continued):

	95°	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	13	14	15	16	19	18	21	22	24	28	29
95°	53	53	52	52	50	50	49	48	53	59	67
97.5°	109	93	85	82	81	80	78	75	77	82	92
100°	184	152	126	111	108	103	101	100	100	110	126
102.5°	238	191	157	135	129	124	121	121	123	135	153
105°	301	241	189	160	155	148	143	144	146	157	173
107.5°	377	305	243	198	187	177	169	169	170	177	189
110°	491	398	305	238	220	209	190	190	189	194	202
112.5°	578	470	364	278	253	235	215	209	209	210	215
115°	630	518	405	315	282	260	235	228	225	227	225
117.5°	660	547	440	342	311	286	255	246	241	245	244
120°	675	573	468	370	338	309	276	267	263	263	264
122.5°	677	587	484	395	363	335	301	288	284	285	285
125°	670	585	499	415	384	356	321	310	301	305	306
127.5°	659	580	508	431	403	378	346	333	325	327	326
130°	643	574	516	445	421	396	368	356	345	346	347
132.5°	627	572	520	456	436	415	387	375	365	366	366
135°	610	567	515	463	453	431	408	395	387	387	385
137.5°	592	555	519	477	463	445	422	412	404	403	402
140°	576	542	514	480	470	456	437	429	418	416	422
142.5°	560	536	519	487	477	465	451	440	432	430	429
145°	544	530	511	485	481	469	454	451	442	440	440
147.5°	528	516	502	484	484	474	467	458	451	447	447
150°	514	504	497	483	482	474	468	464	456	454	453
152.5°	501	492	486	477	476	465	467	463	455	453	453
155°	485	484	477	468	472	466	461	466	454	456	456
157.5°	474	473	472	463	464	461	458	462	452	453	453
160°	462	460	460	452	458	452	453	455	449	450	453
162.5°	456	452	452	449	451	449	444	451	450	448	449
165°	446	445	447	441	446	440	442	445	443	444	445
167.5°	440	439	440	437	440	438	437	441	439	440	441
170°	435	435	436	433	436	433	436	436	435	435	437
172.5°	433	430	433	428	433	427	429	432	431	430	430
175°	429	428	431	426	429	426	426	429	428	427	431
177.5°	429	426	429	424	427	425	425	428	426	426	429
180°	426	426	426	426	426	426	426	426	426	426	426



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CANDELA DISTRIBUTION (continued):

	145°	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0	0	0	0	0	0	0	0	0
92.5°	29	34	35	38	37	31	27	22	19
95°	76	84	92	91	94	88	82	79	75
97.5°	102	115	123	123	124	120	118	120	115
100°	144	153	156	155	152	145	141	139	136
102.5°	169	179	182	180	178	175	171	169	168
105°	186	195	199	198	197	192	184	187	186
107.5°	202	208	212	209	208	205	200	203	199
110°	212	217	218	218	216	213	209	210	207
112.5°	220	223	223	223	221	217	215	213	213
115°	229	227	228	228	226	220	217	215	213
117.5°	245	242	239	239	234	230	227	224	221
120°	260	258	256	253	250	245	240	236	234
122.5°	280	275	272	274	268	263	257	253	248
125°	302	298	293	291	286	282	277	273	267
127.5°	321	315	313	312	306	301	293	290	290
130°	343	336	337	332	327	319	311	311	310
132.5°	364	356	355	353	347	341	336	335	331
135°	381	375	374	372	367	361	353	355	347
137.5°	396	393	392	388	383	382	373	372	367
140°	413	407	411	406	400	398	386	388	388
142.5°	425	422	421	419	415	411	408	404	406
145°	437	435	433	433	427	425	419	419	416
147.5°	447	443	443	441	438	436	430	433	428
150°	447	449	447	447	448	447	442	440	441
152.5°	455	452	450	454	449	452	445	447	445
155°	451	453	454	452	452	452	449	454	449
157.5°	455	453	454	453	451	454	451	455	452
160°	453	451	453	452	450	454	454	457	453
162.5°	446	448	453	450	450	457	446	456	450
165°	444	445	447	449	445	448	448	449	446
167.5°	442	438	442	442	443	443	443	445	441
170°	438	430	438	438	436	436	435	441	436
172.5°	431	429	432	432	434	433	433	434	431
175°	427	428	432	429	428	429	426	429	426
177.5°	425	425	426	427	429	427	424	427	424
180°	426	426	426	426	426	426	426	426	426

(END OF REPORT)