

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: P508479

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

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508479  
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-HSS-L27-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(1) AF LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

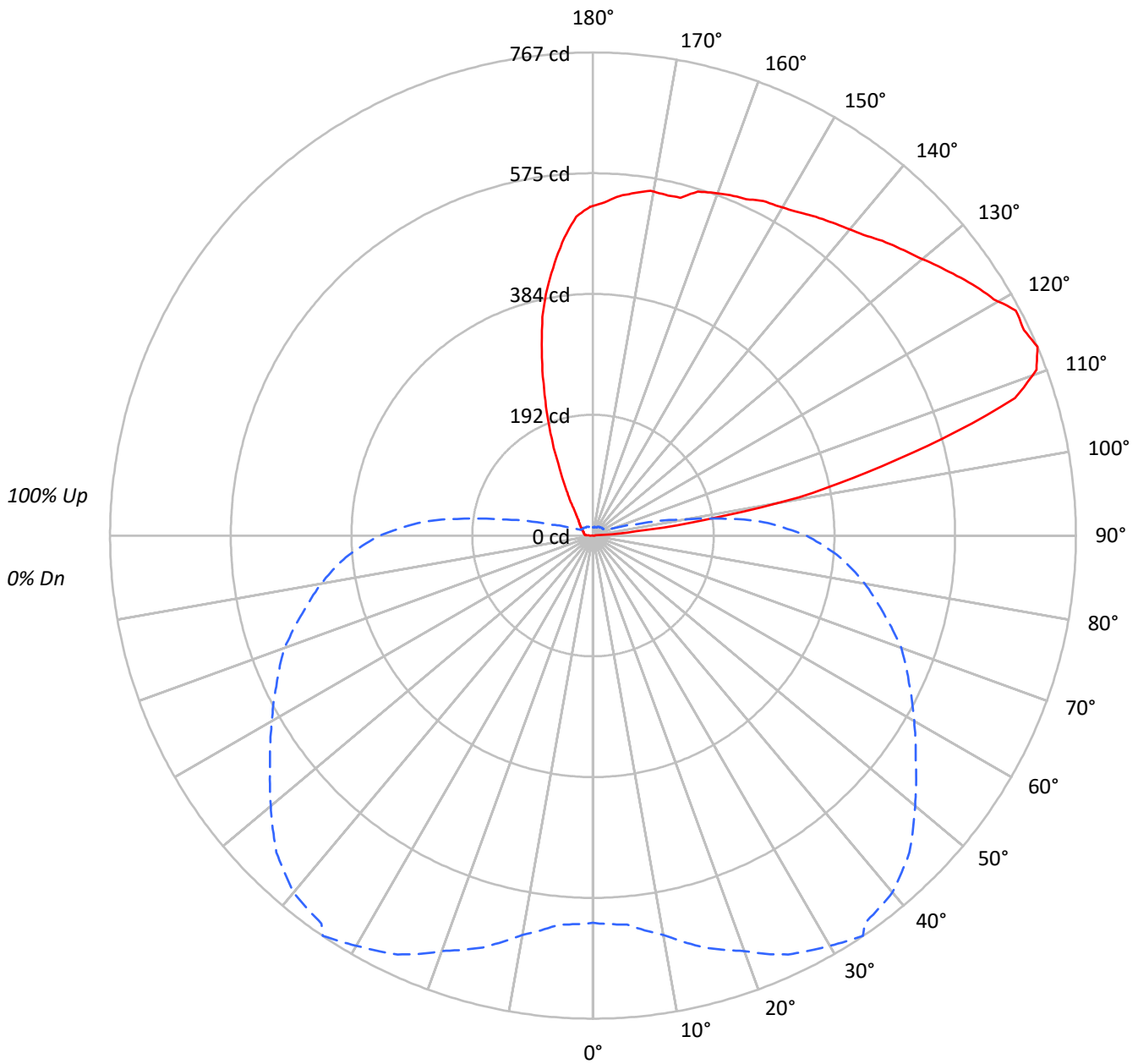
Lumens per Lamp: N/A  
Luminaire Lumens: 1797.7 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

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 34° Lateral      - - - Horizontal Cone Through 112.5° Vertical



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
95°	494	5928	6916
100°	20084	12149	3719
105°	61551	19297	2329
110°	70622	33108	1637
115°	64387	38714	1426
120°	55111	37458	1378
125°	46315	35956	1426
130°	41797	33692	1541
135°	37021	31419	1644
140°	34229	28721	1855
145°	31327	26596	2102
150°	29681	24610	2933
155°	27886	23421	4466
160°	26621	22818	7056
165°	25497	22555	11099
170°	24614	22516	16308
175°	23641	22474	20054



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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°	35.0	1.9
100°-110°	219.1	12.2
110°-120°	338.7	18.8
120°-130°	326.8	18.2
130°-140°	283.9	15.8
140°-150°	234.0	13.0
150°-160°	184.4	10.3
160°-170°	127.9	7.1
170°-180°	48.1	2.7
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°	592.7	33.0
90°-150°	1437.4	80.0
90°-180°	1798.0	100.0
0°-180°	1797.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
90°	0	0	0	0	0	
95°	1	9	12	11	14	17
105°	370	594	116	15	14	363
115°	632	721	380	19	14	615
125°	617	703	479	25	19	564
135°	608	645	516	35	27	473
145°	596	603	506	71	40	378
155°	587	579	493	174	94	270
165°	572	556	506	344	249	162
175°	547	537	520	486	464	52
180°	522	522	522	522	522	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	34°	35°	40°
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	1	1	3	2	2	3	4	5	2
95°	1	1	2	26	78	86	82	79	69	60	15
97.5°	21	25	40	107	217	250	266	218	179	166	89
100°	81	94	130	246	367	375	372	362	333	314	241
102.5°	216	225	275	378	444	458	458	449	446	440	417
105°	370	380	420	473	513	528	536	556	576	579	601
107.5°	473	483	514	554	606	625	648	680	705	702	697
110°	561	572	601	641	679	702	724	738	752	738	731
112.5°	615	620	644	677	702	719	734	752	767	752	740
115°	632	635	656	679	706	722	733	752	758	755	745
117.5°	631	644	662	678	704	717	728	743	761	753	743
120°	640	641	660	679	698	709	709	731	739	737	735
122.5°	637	640	656	668	688	697	706	717	726	723	723
125°	617	636	645	659	678	684	693	702	710	707	706
127.5°	629	630	638	653	665	669	679	687	695	694	696
130°	624	621	640	646	655	662	667	674	680	680	682
132.5°	620	620	626	638	646	651	659	661	668	670	666
135°	608	616	625	629	638	642	646	650	656	658	651
137.5°	596	608	620	626	633	633	633	639	642	645	638
140°	609	608	619	618	622	621	628	629	633	631	627
142.5°	606	606	609	613	612	614	619	624	624	626	619
145°	596	599	604	608	608	607	613	614	616	615	611
147.5°	600	600	600	605	605	605	606	607	607	608	605
150°	597	598	600	598	603	595	600	600	600	601	599
152.5°	577	591	596	595	591	593	594	598	596	598	592
155°	587	586	587	588	585	587	588	588	587	588	583
157.5°	584	583	588	582	585	587	583	586	583	587	585
160°	581	579	583	579	583	578	575	580	577	584	574
162.5°	577	576	580	575	571	569	572	573	571	573	568
165°	572	572	572	567	570	570	566	567	554	568	562
167.5°	568	572	567	562	568	568	561	562	553	560	557
170°	563	559	560	560	565	556	551	560	555	560	555
172.5°	551	555	555	553	550	550	549	551	548	549	546
175°	547	547	549	552	546	545	539	544	541	543	540
177.5°	532	540	539	532	536	530	533	535	529	534	529
180°	522	522	522	522	522	522	522	522	522	522	522



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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°	2	2	2	3	3	3	3	3	3	3	3
95°	9	12	29	24	18	17	19	17	15	13	12
97.5°	72	81	85	75	74	68	61	46	42	37	29
100°	197	175	164	146	118	107	98	81	66	58	49
102.5°	377	336	283	227	185	169	151	126	106	88	73
105°	594	516	413	338	282	247	231	191	158	138	116
107.5°	666	616	552	474	408	376	341	288	246	209	176
110°	696	653	605	559	514	485	461	407	355	309	263
112.5°	711	668	626	589	554	538	521	478	438	394	339
115°	721	687	650	611	584	567	552	513	476	436	380
117.5°	726	692	665	633	605	591	575	540	503	466	410
120°	720	697	675	648	621	607	594	559	525	490	435
122.5°	712	699	682	655	635	623	612	577	547	507	457
125°	703	690	672	655	639	630	622	591	560	526	479
127.5°	689	677	663	649	637	628	625	598	569	539	491
130°	674	664	652	638	630	620	621	597	574	546	503
132.5°	654	647	644	629	621	616	609	593	574	552	511
135°	645	638	633	620	608	606	596	587	571	555	516
137.5°	629	625	622	608	596	596	593	581	567	545	512
140°	622	617	609	598	591	585	582	572	555	538	511
142.5°	610	606	604	594	583	577	571	560	548	536	507
145°	603	602	600	590	573	570	568	556	545	526	506
147.5°	594	595	593	581	570	563	558	547	539	523	498
150°	588	589	587	572	560	557	555	544	529	516	495
152.5°	585	582	577	571	558	551	549	537	529	513	493
155°	579	575	572	562	554	547	542	535	526	510	493
157.5°	573	569	567	565	554	544	543	535	521	509	495
160°	567	557	565	553	550	542	536	531	521	510	498
162.5°	561	558	557	550	544	539	530	533	521	511	502
165°	556	553	552	550	541	537	535	529	524	514	506
167.5°	551	546	548	546	535	538	533	529	526	518	510
170°	550	540	545	544	536	535	529	528	525	519	515
172.5°	545	538	541	538	534	531	531	532	527	523	518
175°	537	533	534	537	531	529	524	528	529	522	520
177.5°	528	532	529	533	528	527	524	527	527	521	521
180°	522	522	522	522	522	522	522	522	522	522	522



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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°	3	4	4	5	6	6	7	7	8	9	10
95°	6	5	6	7	7	8	9	9	10	11	11
97.5°	12	8	8	8	9	9	10	11	12	12	12
100°	23	13	13	10	10	11	11	12	13	13	13
102.5°	40	24	19	13	12	12	13	13	14	14	14
105°	75	48	27	16	15	14	14	14	15	15	15
107.5°	132	77	38	21	18	16	16	16	16	16	16
110°	201	113	52	27	22	19	18	18	17	17	17
112.5°	264	148	66	33	26	22	20	19	19	18	17
115°	304	174	80	38	30	25	21	21	20	19	18
117.5°	333	201	97	46	35	29	23	22	21	21	20
120°	361	229	115	55	42	33	26	24	23	22	21
122.5°	388	256	135	66	49	39	29	26	25	23	23
125°	409	284	158	80	59	46	33	28	26	25	24
127.5°	432	312	182	95	70	55	38	31	29	27	26
130°	449	339	208	115	86	66	45	35	31	29	28
132.5°	462	362	234	137	105	80	54	42	35	32	30
135°	466	382	261	161	125	98	66	50	40	35	33
137.5°	470	398	287	188	151	120	80	60	48	41	36
140°	468	410	312	218	178	144	99	73	58	49	42
142.5°	467	420	338	246	206	172	122	90	71	58	50
145°	469	427	357	276	239	204	150	110	87	71	62
147.5°	462	431	380	302	268	234	180	137	109	89	76
150°	468	433	390	328	296	265	213	168	136	112	96
152.5°	467	435	401	351	324	295	243	199	165	140	121
155°	472	436	412	374	350	324	277	235	199	174	152
157.5°	476	449	425	395	374	352	312	273	239	213	186
160°	482	456	435	412	398	375	346	315	282	254	232
162.5°	485	467	449	426	417	401	377	354	326	300	279
165°	491	473	461	442	433	419	404	383	366	344	328
167.5°	497	485	475	460	452	442	429	415	406	389	373
170°	503	493	488	481	469	461	455	445	433	425	416
172.5°	508	504	501	499	487	481	477	466	466	455	448
175°	516	503	512	507	503	498	496	493	490	486	482
177.5°	520	518	520	518	517	512	515	512	511	510	507
180°	522	522	522	522	522	522	522	522	522	522	522





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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°	11	11	12	12	12	12	13	12	11
95°	12	13	13	13	14	14	14	14	14
97.5°	13	13	14	14	14	15	15	15	15
100°	14	14	14	15	15	15	15	15	15
102.5°	14	14	14	15	15	15	15	15	15
105°	15	14	14	14	14	14	14	14	14
107.5°	15	15	14	14	14	14	14	14	14
110°	16	15	14	14	14	14	14	14	13
112.5°	17	16	15	14	14	14	14	13	13
115°	18	17	16	16	15	15	15	14	14
117.5°	19	18	17	17	16	16	15	15	15
120°	20	20	19	18	18	17	17	16	16
122.5°	22	20	20	20	20	19	18	18	18
125°	23	22	22	22	21	21	20	19	19
127.5°	25	24	24	23	23	22	22	21	21
130°	27	26	25	25	25	24	24	23	23
132.5°	29	28	28	27	27	26	26	25	25
135°	32	30	30	30	29	28	28	28	27
137.5°	34	33	32	31	31	31	30	30	30
140°	39	36	35	34	34	33	33	33	33
142.5°	45	42	39	38	37	36	36	35	35
145°	55	50	46	45	43	41	41	40	40
147.5°	67	61	56	54	53	51	49	48	47
150°	84	75	70	68	66	62	60	59	59
152.5°	106	96	88	84	82	78	75	74	75
155°	133	121	113	108	104	99	97	96	94
157.5°	171	155	143	139	134	129	126	123	121
160°	212	194	183	178	172	164	160	156	154
162.5°	257	242	229	221	218	208	204	199	200
165°	307	291	281	275	267	262	259	252	249
167.5°	360	342	337	329	322	315	315	312	309
170°	400	396	390	381	380	375	375	372	373
172.5°	438	432	432	429	426	424	419	421	421
175°	476	473	471	463	465	465	462	462	464
177.5°	507	507	505	504	503	504	505	506	504
180°	522	522	522	522	522	522	522	522	522

(END OF REPORT)