

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: STREETWORKS

Report Number: P459579

Luminaire Tested: **ARCH-S-PA1-30-AMB-U-T2U**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-30-AMB-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1297.9 lumens  
Efficiency: N/A  
Efficacy: 40.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 28.75 FT

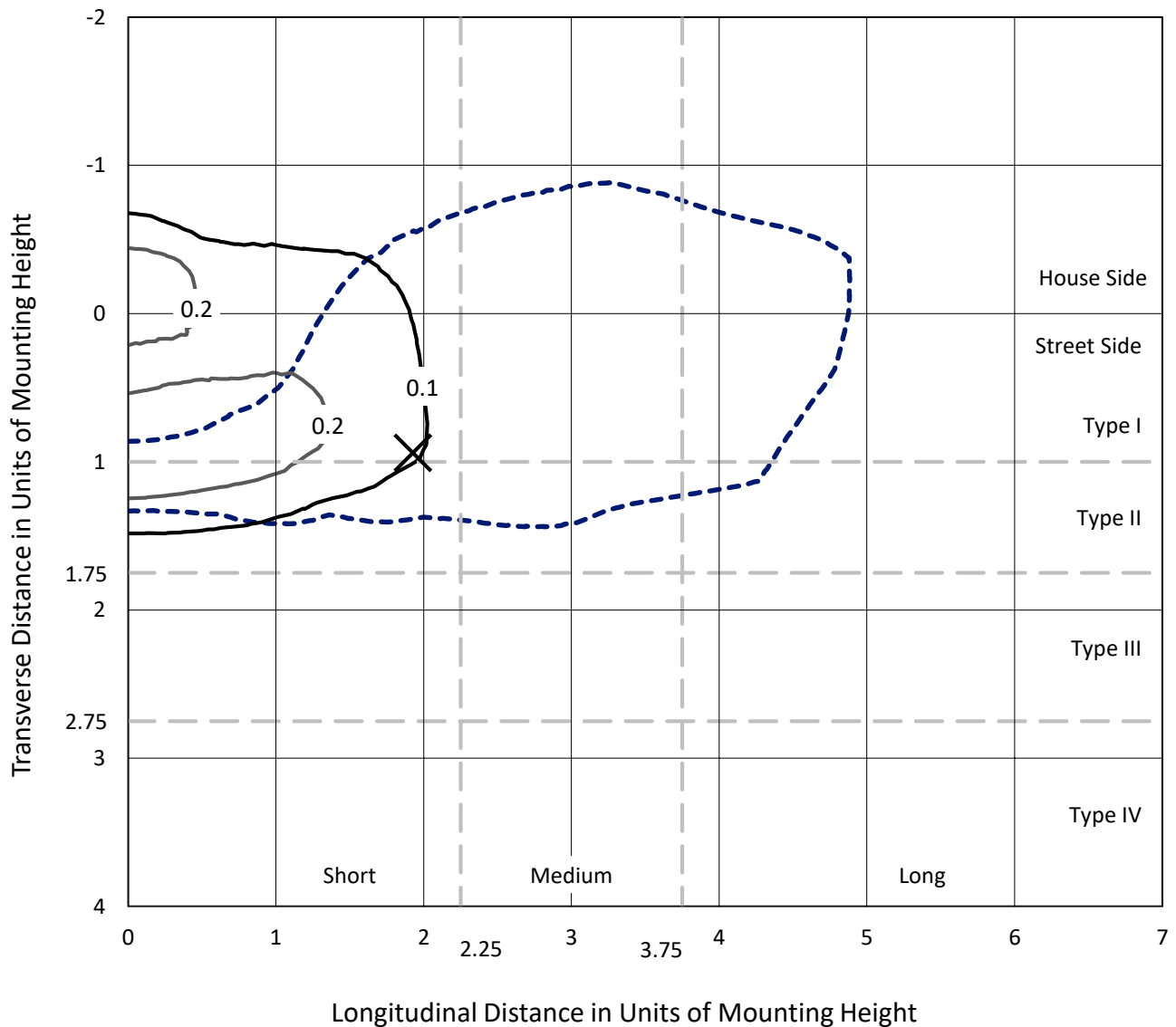


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

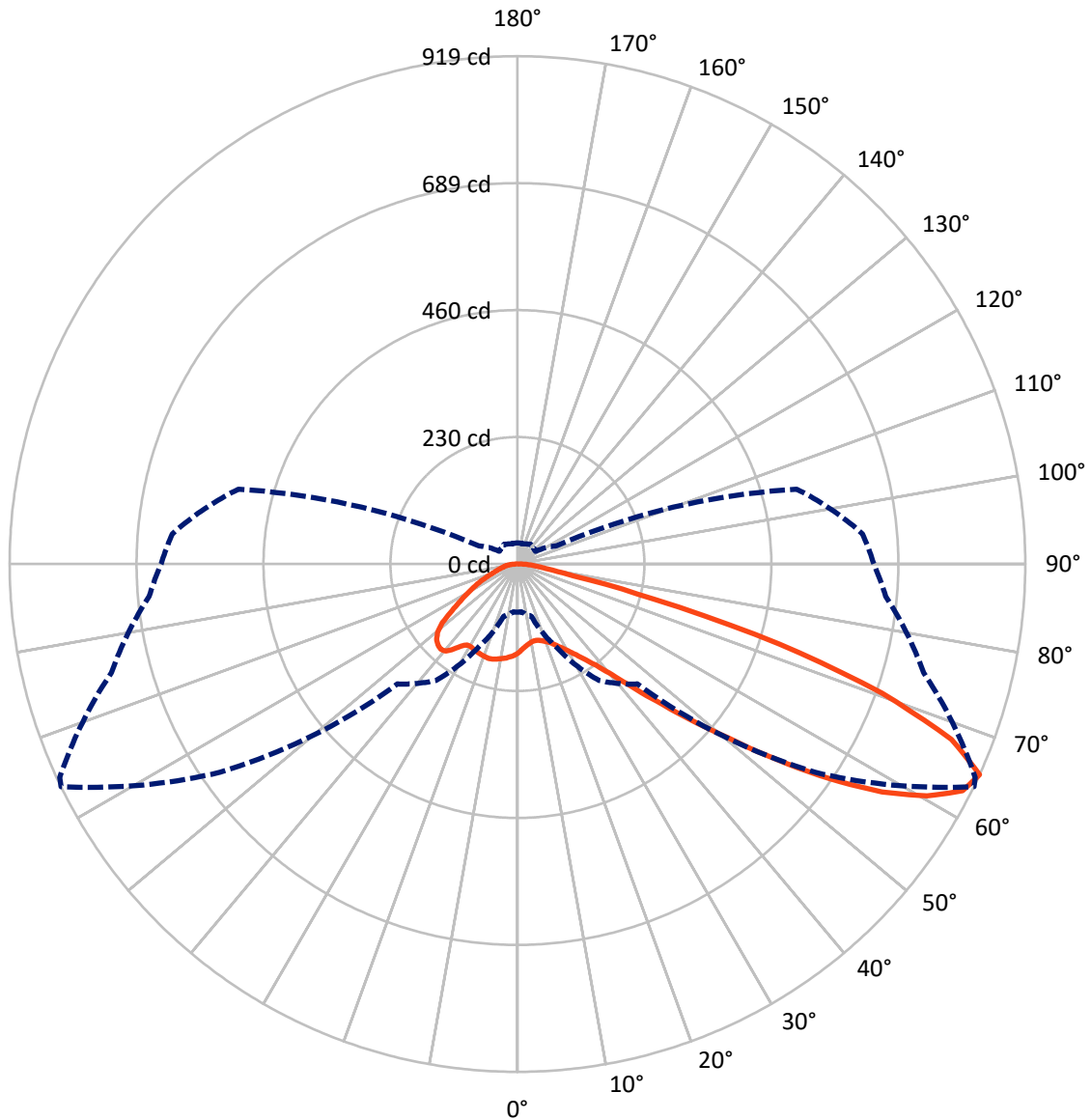


Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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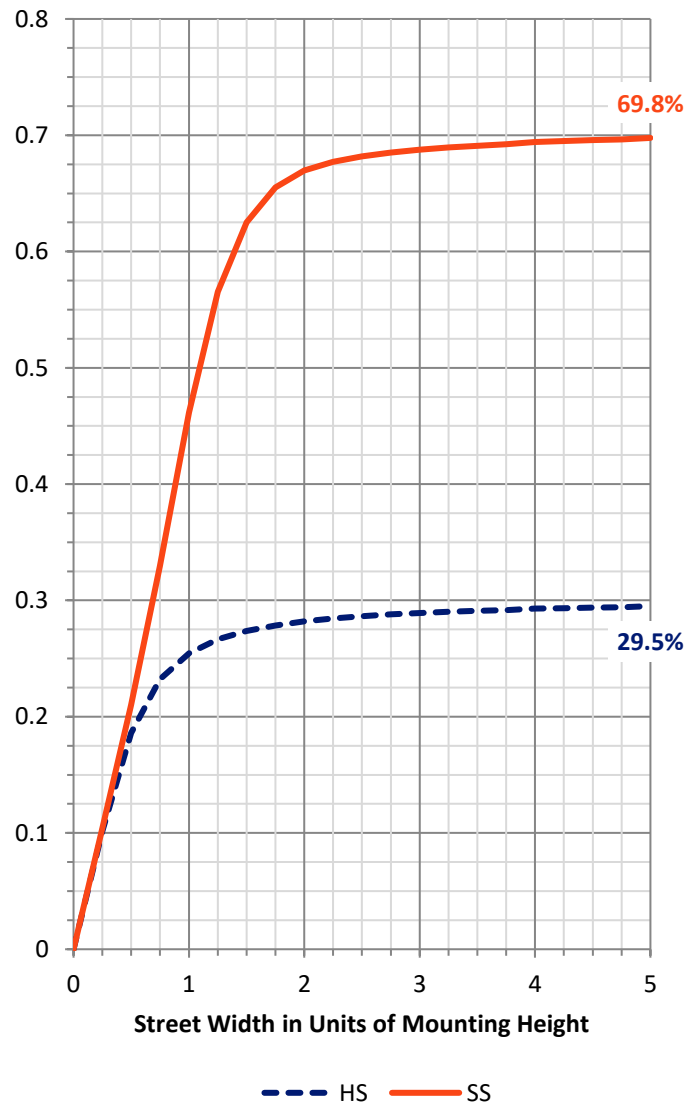
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	388.4	0.0	388.4
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	909.5	0.0	909.5
	% Fixture	70.1	0.0	70.1
<b>Total</b>	Lumens	1297.9	0.0	1297.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.3	1.2
10°-20°	45.1	3.5
20°-30°	76.7	5.9
30°-40°	122.4	9.4
40°-50°	222.1	17.1
50°-60°	319.0	24.6
60°-70°	292.5	22.5
70°-80°	171.1	13.2
80°-90°	33.9	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1297.9	100.0
0°-180°	1297.9	100.0



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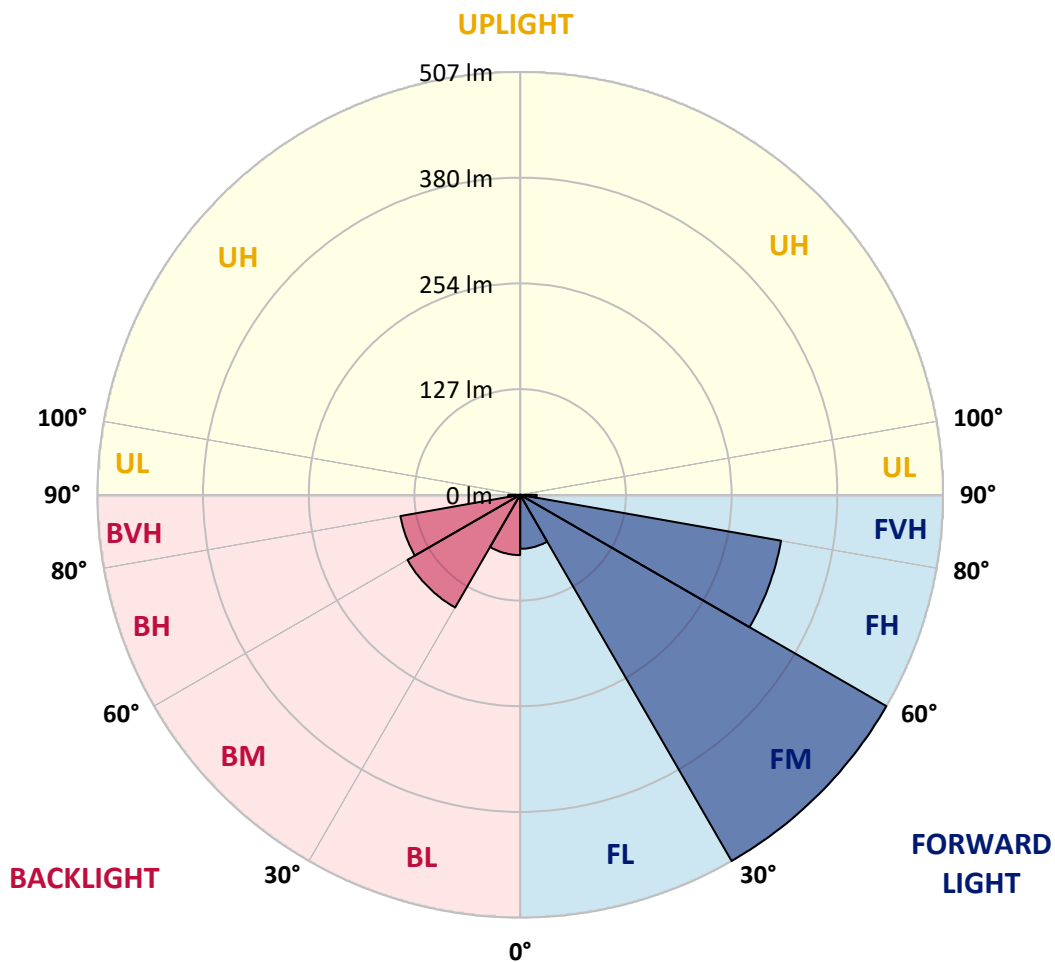
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.8	5.0			
FM (30°-60°)	507.3	39.1			
FH (60°-80°)	317.7	24.5			G0/660
FVH (80°-90°)	19.8	1.5			G1/100
BL (0°-30°)	72.3	5.6	B0/110		
BM (30°-60°)	156.2	12.0	B0/220		
BH (60°-80°)	145.8	11.2	B1/500		G1/500
BVH (80°-90°)	14.1	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	161	161	161	161	161	161	161	161	161	161	161
2.5°	150	150	151	151	152	153	154	155	155	157	159
5°	142	142	143	143	144	145	147	150	150	153	157
7.5°	137	137	137	138	139	140	143	146	146	150	155
10°	134	134	134	134	135	137	140	143	143	148	153
12.5°	132	132	132	132	133	135	139	142	142	147	153
15°	133	133	133	133	134	136	139	143	143	148	154
17.5°	134	135	134	136	137	139	142	146	146	151	156
20°	136	137	137	140	141	143	146	150	150	155	158
22.5°	141	142	143	147	147	149	152	155	156	160	161
25°	152	153	155	158	156	158	160	163	163	166	165
27.5°	173	173	176	175	170	170	171	172	172	173	171
30°	202	202	203	199	190	185	183	183	183	183	178
32.5°	237	238	240	232	216	206	198	196	195	195	189
35°	287	287	285	277	254	233	217	213	211	211	203
37.5°	354	353	346	331	302	271	243	233	232	231	223
40°	433	429	421	400	359	321	284	263	262	258	247
42.5°	505	505	492	477	433	400	333	303	300	292	279
45°	562	557	548	542	516	491	397	355	350	335	316
47.5°	583	572	573	583	592	577	474	420	412	386	363
50°	552	546	553	591	642	666	575	495	486	453	418
52.5°	474	476	497	555	652	729	675	588	574	523	480
55°	391	395	428	488	616	751	762	686	669	591	535
57.5°	302	309	352	416	545	709	824	778	761	653	587
60°	200	206	259	345	448	602	838	852	836	705	632
62.5°	134	136	159	262	350	453	795	904	893	744	660
65°	87	87	98	165	257	307	657	919	914	761	669
67.5°	61	61	66	96	183	187	440	847	862	751	654
70°	54	55	59	66	135	117	234	700	733	712	618
72.5°	47	48	55	61	97	82	111	495	539	672	582
75°	39	40	45	57	70	65	71	255	305	594	551
77.5°	31	32	36	45	58	49	58	104	138	437	487
80°	21	22	26	33	43	39	45	55	63	255	369
82.5°	15	15	19	23	30	33	30	39	40	119	219
85°	11	11	13	15	18	21	20	26	27	48	66
87.5°	5	5	8	7	9	10	13	13	13	21	12
90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	161	161	161	161	161	161	161	161	161	161	161
2.5°	160	161	163	165	167	168	169	170	170	171	171
5°	159	161	165	168	172	174	176	178	179	180	180
7.5°	158	161	166	171	176	179	182	184	186	186	187
10°	157	160	167	173	179	184	186	188	189	190	190
12.5°	156	160	168	175	182	187	189	190	189	189	189
15°	157	161	169	177	184	188	189	185	180	177	177
17.5°	158	162	170	178	185	187	181	175	171	170	170
20°	159	162	170	177	183	181	174	172	171	172	171
22.5°	161	164	170	176	180	176	174	174	170	169	168
25°	165	166	170	175	176	176	172	167	163	163	163
27.5°	169	169	170	173	176	174	161	156	154	153	153
30°	174	173	170	171	179	162	145	140	139	138	138
32.5°	183	179	171	172	175	143	124	119	119	119	119
35°	196	190	177	182	164	121	101	98	100	101	101
37.5°	214	205	186	198	151	98	81	81	82	84	84
40°	237	225	200	212	135	76	67	67	67	67	67
42.5°	266	251	219	218	113	63	59	57	56	54	54
45°	301	281	248	218	90	57	54	52	50	47	47
47.5°	342	317	281	214	73	56	53	49	47	46	45
50°	392	360	316	204	62	55	50	47	46	45	44
52.5°	447	411	351	185	58	54	48	46	44	44	44
55°	502	463	381	155	53	51	47	45	43	43	43
57.5°	551	510	412	131	49	48	46	44	42	42	42
60°	594	554	445	112	46	46	45	43	41	41	41
62.5°	627	591	484	95	43	43	44	42	39	39	39
65°	645	627	523	78	40	41	43	40	38	38	38
67.5°	637	643	545	63	36	38	41	38	36	36	36
70°	605	633	538	50	33	36	38	36	33	34	33
72.5°	572	624	498	40	31	33	35	33	31	31	30
75°	546	600	403	34	27	30	32	30	28	28	27
77.5°	496	515	253	28	24	26	28	26	25	24	23
80°	380	355	108	24	21	23	24	23	22	20	19
82.5°	213	170	38	19	18	20	20	20	19	18	16
85°	61	47	21	14	14	14	16	17	16	14	12
87.5°	9	13	13	9	9	9	11	11	12	9	9
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)