

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: P459578

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-11)
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-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 914.9 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

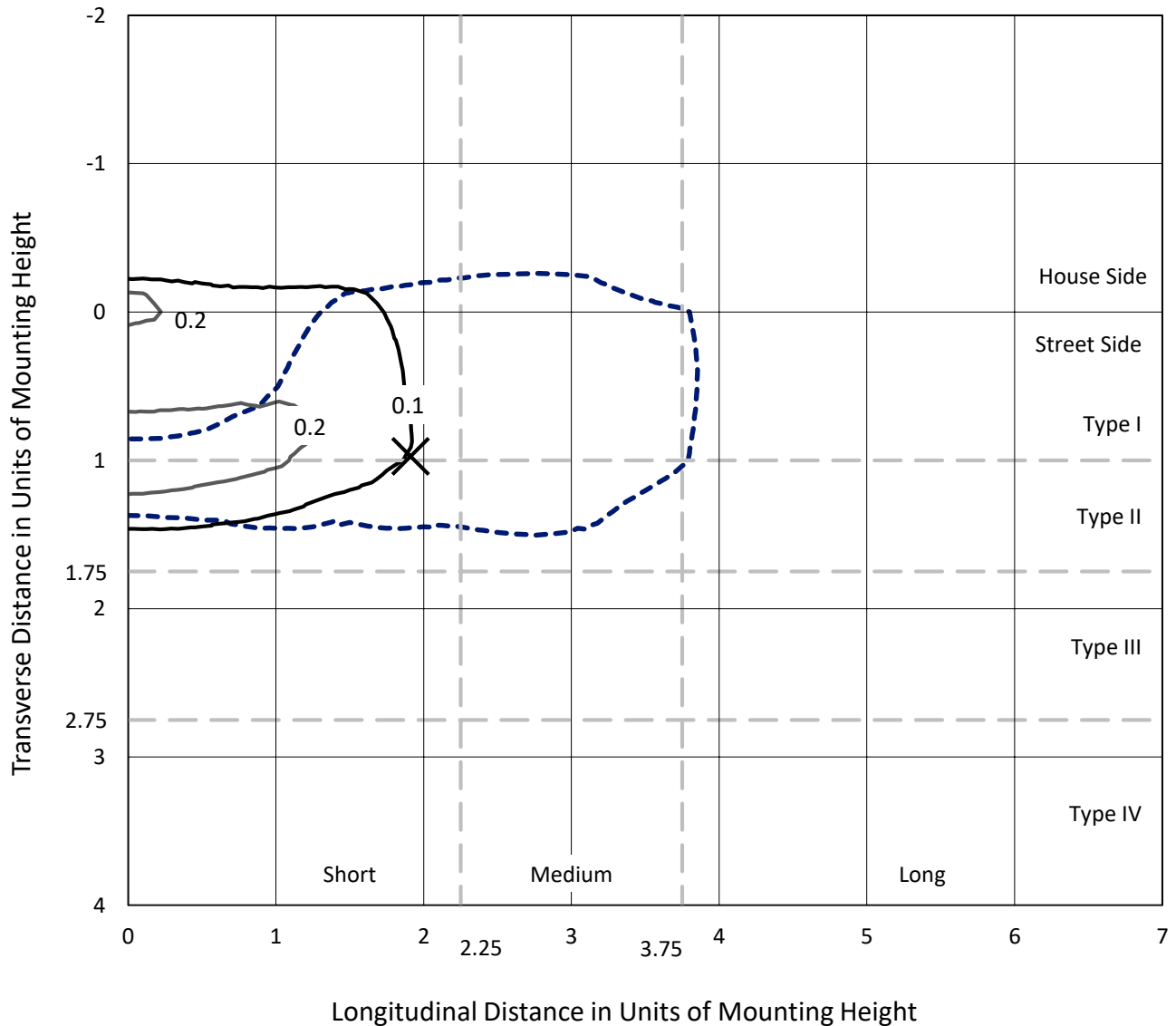
Input Watts (W): 32
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

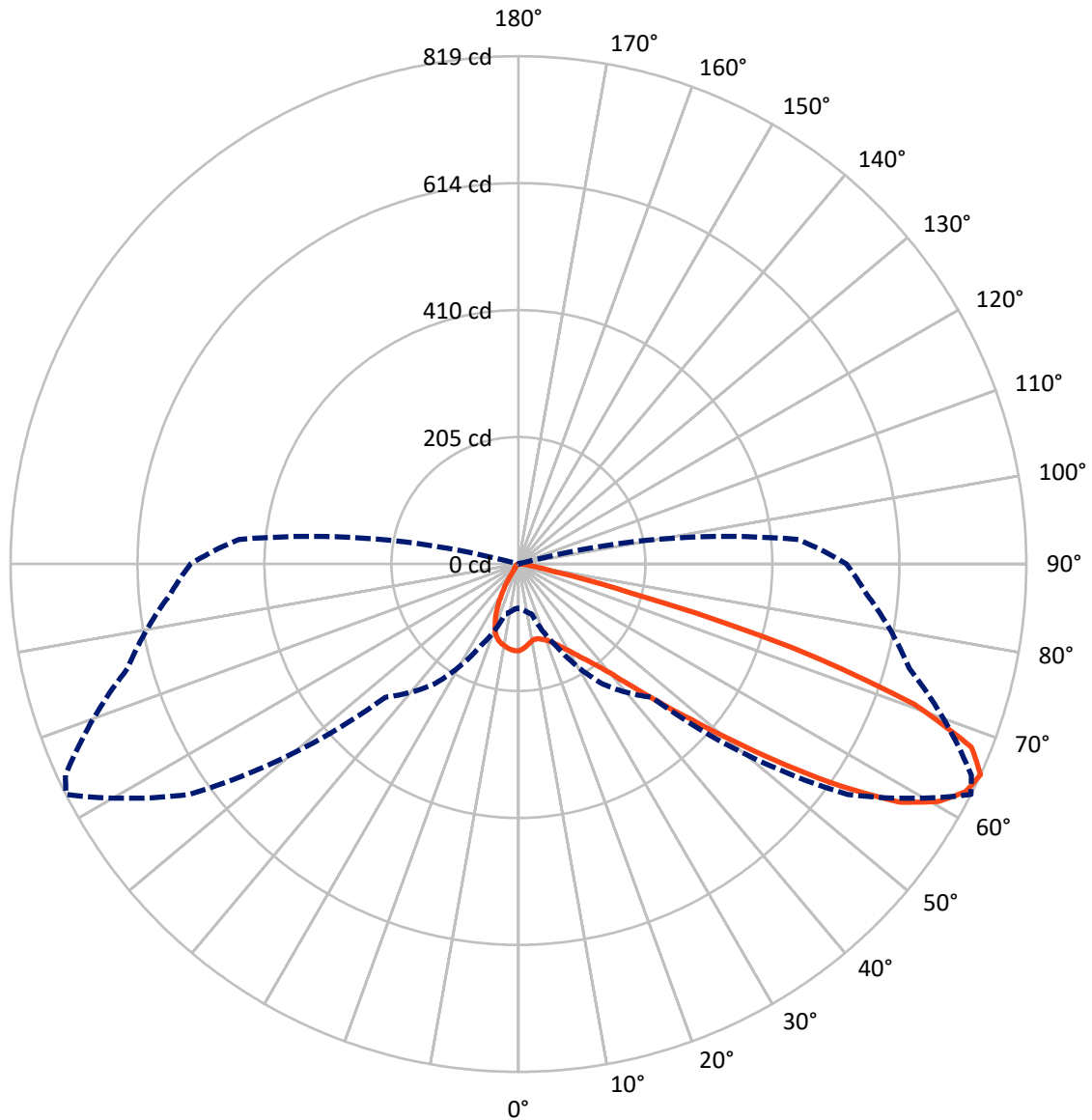


Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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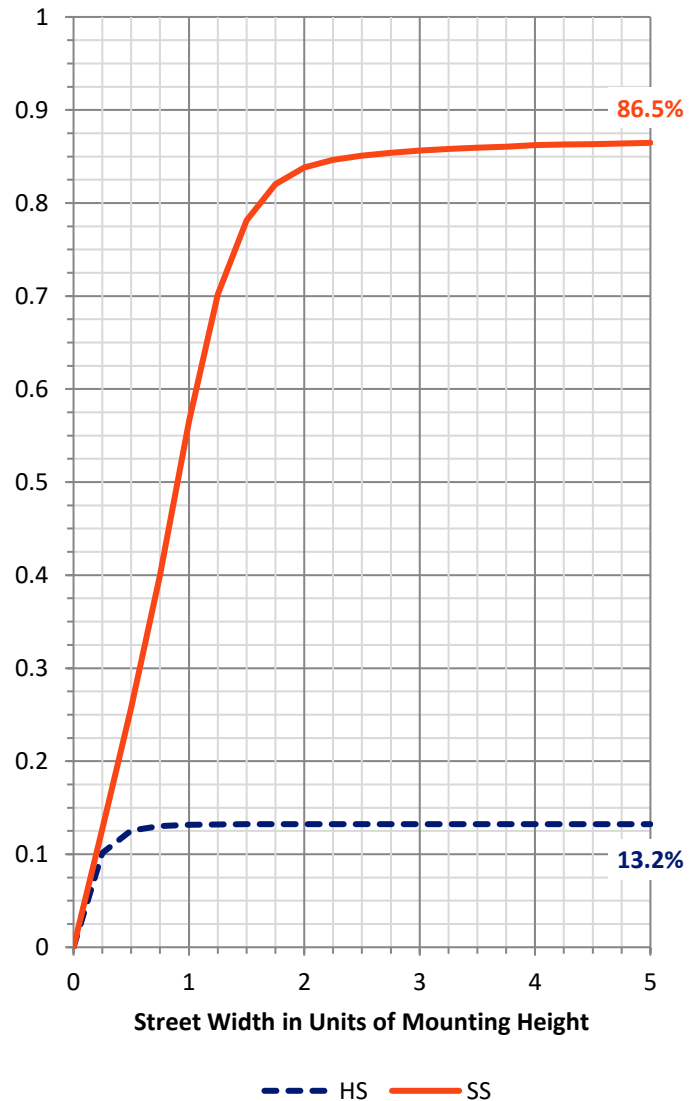
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.5	0.0	122.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	792.5	0.0	792.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	914.9	0.0	914.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	1.4
10°-20°	30.2	3.3
20°-30°	43.8	4.8
30°-40°	78.5	8.6
40°-50°	170.3	18.6
50°-60°	258.4	28.2
60°-70°	219.2	24.0
70°-80°	96.5	10.5
80°-90°	5.4	0.6
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°	914.9	100.0
0°-180°	914.9	100.0

Coefficient of Utilization



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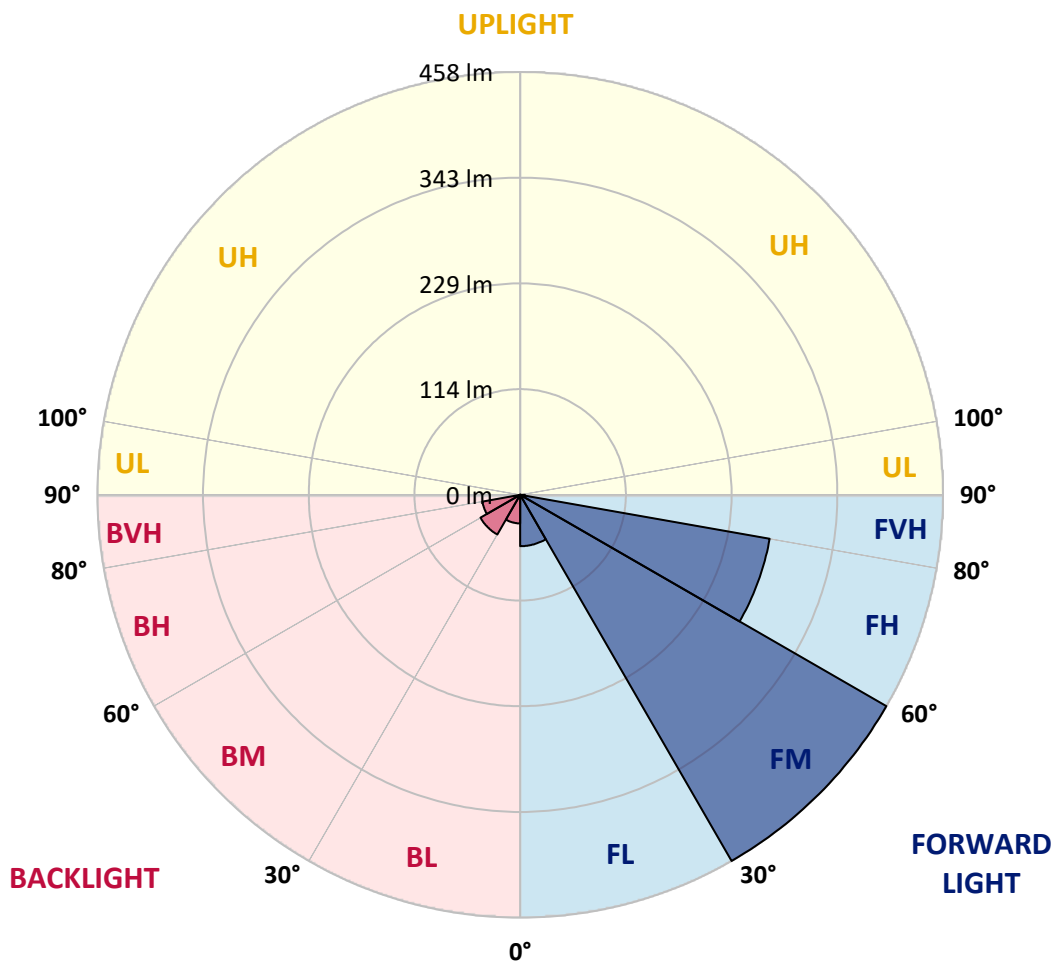
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.6	6.1			
FM (30°-60°)	457.7	50.0			
FH (60°-80°)	274.2	30.0			G0/660
FVH (80°-90°)	5.1	0.6			G0/10
BL (0°-30°)	30.9	3.4	B0/110		
BM (30°-60°)	49.6	5.4	B0/220		
BH (60°-80°)	41.6	4.5	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	140	140	140	140	140	140	140	140	140	140	140
2.5°	134	134	134	135	135	136	136	137	137	138	139
5°	126	126	127	127	128	129	131	133	133	135	137
7.5°	121	121	121	122	123	124	126	129	129	132	136
10°	117	117	117	118	119	120	123	125	126	130	133
12.5°	115	115	115	115	116	119	121	124	125	129	133
15°	115	115	115	115	117	119	122	125	126	130	133
17.5°	115	115	115	117	118	121	124	128	128	132	134
20°	115	116	117	120	121	124	128	131	132	136	136
22.5°	117	118	120	124	125	129	133	137	137	140	139
25°	123	123	126	132	132	136	141	144	144	146	143
27.5°	134	134	138	141	141	146	150	153	153	154	148
30°	151	151	153	154	153	157	161	163	164	163	156
32.5°	185	184	182	174	170	170	173	176	176	175	166
35°	241	238	230	214	195	189	188	191	191	192	180
37.5°	314	310	295	269	235	212	208	209	211	212	200
40°	391	388	368	340	292	249	235	234	236	238	224
42.5°	459	458	436	415	364	323	271	270	271	272	253
45°	518	512	497	480	445	406	323	317	317	313	290
47.5°	548	537	531	532	522	492	399	374	375	365	334
50°	525	520	527	555	584	583	496	447	445	428	385
52.5°	451	455	479	530	612	662	600	536	527	495	441
55°	367	373	408	468	590	710	699	633	618	557	488
57.5°	275	285	333	394	526	691	768	725	704	606	520
60°	178	186	241	324	425	590	783	778	755	633	542
62.5°	118	121	146	247	328	448	743	809	783	645	556
65°	71	73	84	147	236	304	648	819	806	653	564
67.5°	45	45	49	78	163	181	460	788	802	656	555
70°	38	39	42	48	113	101	250	677	732	649	541
72.5°	30	32	37	44	76	65	106	463	558	619	520
75°	19	21	28	39	51	47	54	189	276	473	442
77.5°	12	12	16	28	40	32	40	57	77	219	250
80°	7	8	9	17	27	25	27	30	30	56	62
82.5°	5	4	6	9	16	17	15	18	19	19	9
85°	2	2	3	5	9	8	8	10	11	12	4
87.5°	1	1	2	3	3	4	4	4	5	7	2
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°	140	140	140	140	140	140	140	140	140	140	140
2.5°	139	140	139	140	140	140	140	140	141	140	141
5°	138	139	139	139	139	138	138	138	137	137	137
7.5°	137	138	137	137	136	135	133	132	131	131	131
10°	135	136	136	134	133	130	125	120	115	114	113
12.5°	134	135	134	132	128	121	110	96	86	80	78
15°	134	134	133	129	121	104	80	56	40	32	31
17.5°	135	134	131	125	108	77	43	23	18	17	17
20°	136	134	129	119	88	44	19	15	14	13	13
22.5°	137	134	127	109	64	21	15	12	11	10	10
25°	140	136	125	97	38	15	12	10	9	8	8
27.5°	144	138	125	81	20	13	10	8	7	6	6
30°	149	142	125	62	14	10	8	6	5	5	5
32.5°	157	149	124	42	11	8	6	5	4	4	4
35°	170	159	123	23	9	7	5	4	3	3	3
37.5°	188	174	120	13	7	5	4	3	3	3	3
40°	210	193	114	10	6	4	3	3	3	2	2
42.5°	238	217	104	9	5	4	3	2	2	2	2
45°	271	249	89	8	4	3	3	2	2	2	2
47.5°	311	282	68	7	4	3	2	2	2	2	2
50°	356	320	44	6	3	2	2	2	1	1	1
52.5°	406	363	27	5	3	2	2	1	1	1	1
55°	446	397	18	4	2	2	1	1	1	1	1
57.5°	475	420	12	4	2	1	1	1	1	0	0
60°	498	435	9	3	2	1	1	0	0	0	0
62.5°	518	448	7	2	2	1	1	0	0	0	0
65°	529	453	6	2	1	1	0	0	0	0	0
67.5°	525	444	5	1	1	0	0	0	0	0	0
70°	510	421	4	1	1	0	0	0	0	0	0
72.5°	495	387	3	1	1	0	0	0	0	0	0
75°	423	219	2	1	0	0	0	0	0	0	0
77.5°	231	92	1	0	0	0	0	0	0	0	0
80°	54	29	1	0	0	0	0	0	0	0	0
82.5°	6	3	0	0	0	0	0	0	0	0	0
85°	3	1	0	0	0	0	0	0	0	0	0
87.5°	1	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)