

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: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **ARCH2-30-AMB-U-T3-HSS**

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-129-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ARCH2-30-AMB-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) NARROW BAND AMBER, 300mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 637 lumens
Efficiency: N/A
Efficacy: 21.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G0

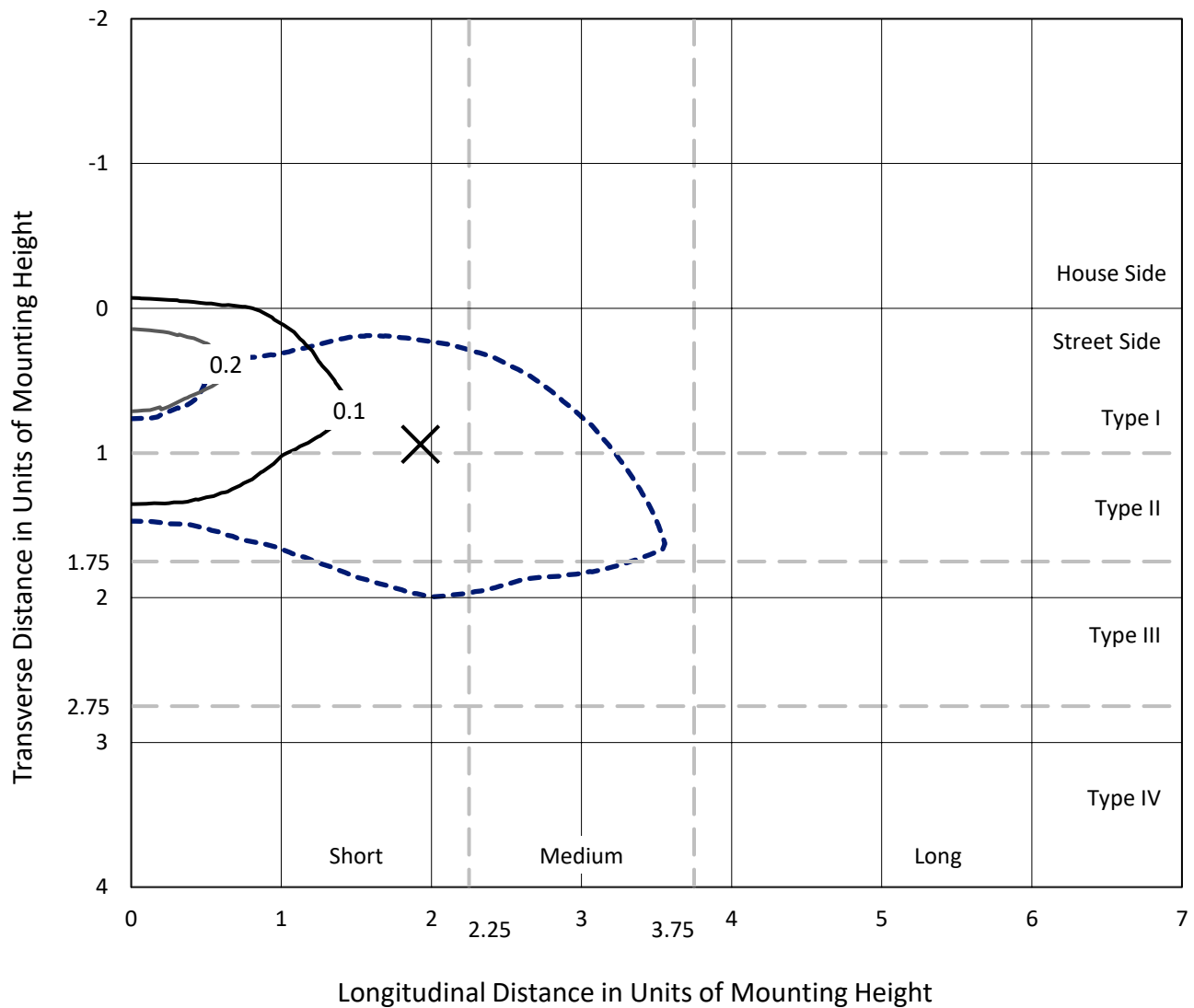
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P#
CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

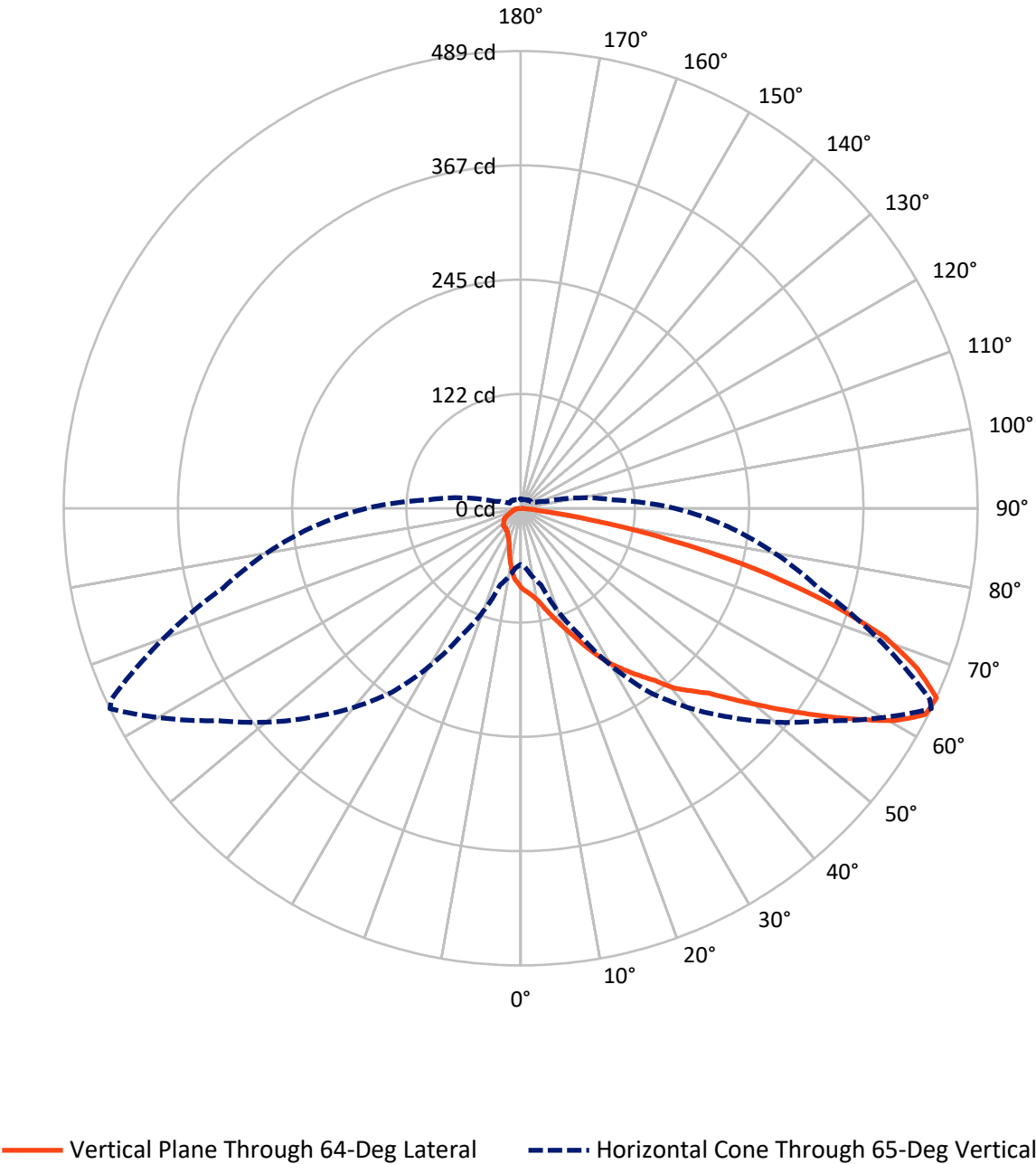
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
Type III - Short - N/A

REPORT NUMBER: P#
CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P#

CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

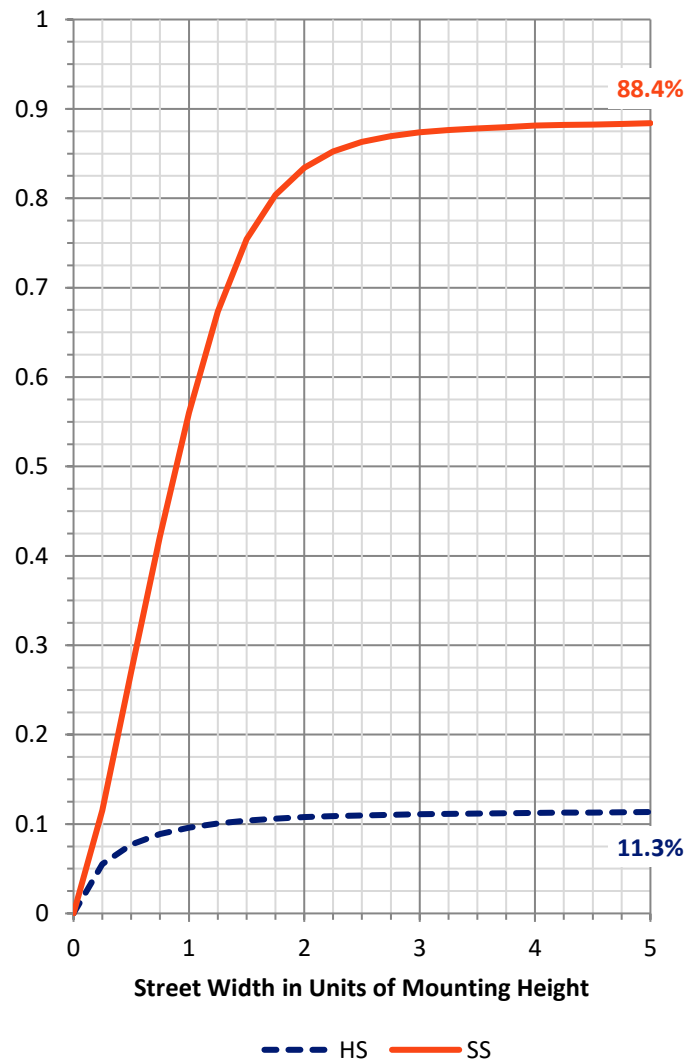
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.1	0.0	73.1
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	563.9	0.0	563.9
	% Fixture	88.5	0.0	88.5
Total	Lumens	637.0	0.0	637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	1.3
10°-20°	27.5	4.3
20°-30°	50.2	7.9
30°-40°	77.7	12.2
40°-50°	117.9	18.5
50°-60°	150.5	23.6
60°-70°	134.9	21.2
70°-80°	63.4	10.0
80°-90°	6.7	1.1
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°	637.0	100.0
0°-180°	637.0	100.0

Coefficient of Utilization



REPORT NUMBER: P#

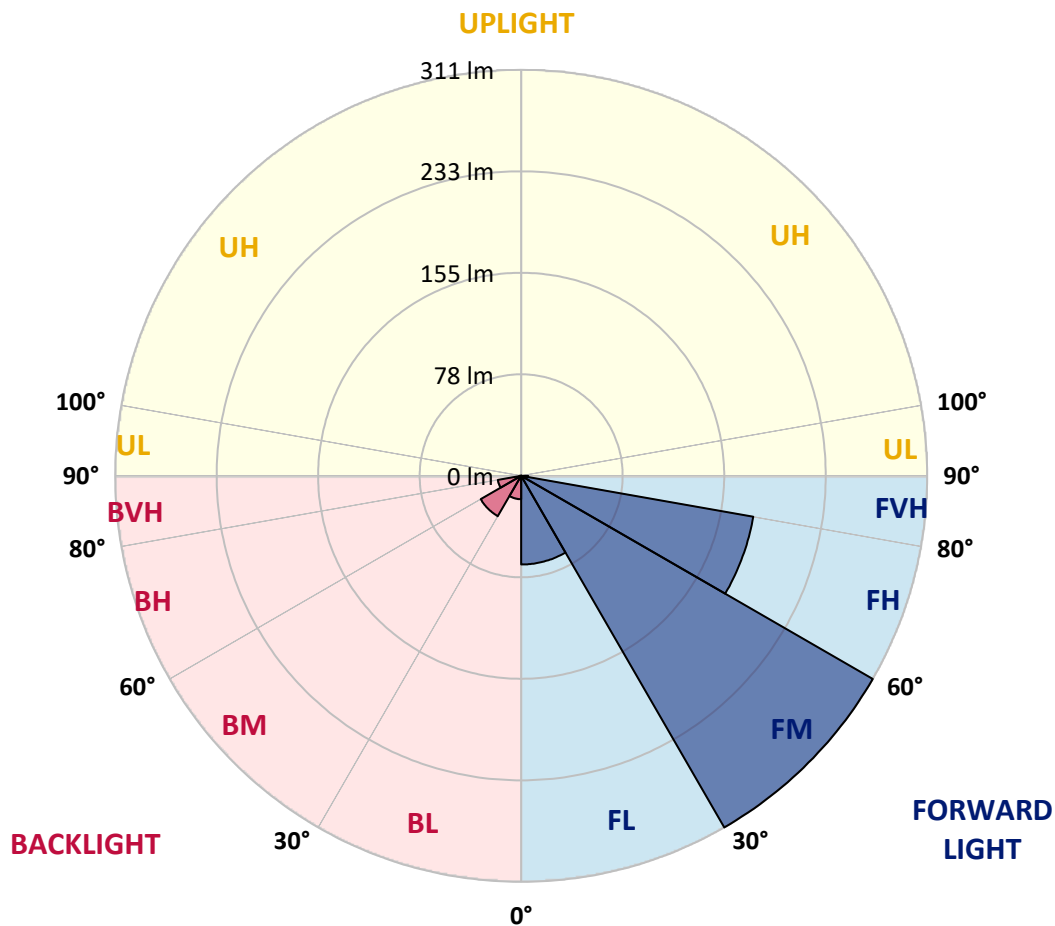
CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.8	10.6			
FM	(30°-60°)	310.5	48.8			
FH	(60°-80°)	180.2	28.3			G0/660
FVH	(80°-90°)	5.3	0.8			G0/10
BL	(0°-30°)	17.9	2.8	B0/110		
BM	(30°-60°)	35.7	5.6	B0/220		
BH	(60°-80°)	18.1	2.8	B0/110		G0/110
BVH	(80°-90°)	1.4	0.2			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 III Short



REPORT NUMBER: P#

CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	85	85	85	85	85	85	85	85	85	85	85
2.5°	91	92	92	91	90	89	88	88	87	86	85
5°	103	102	102	101	98	95	93	91	90	88	87
7.5°	123	123	121	117	111	105	100	95	94	91	88
10°	150	149	147	140	129	119	108	100	99	93	89
12.5°	176	174	171	165	151	136	120	108	106	96	91
15°	192	190	189	184	173	156	134	117	114	101	93
17.5°	198	197	199	198	190	176	151	127	123	105	96
20°	198	197	200	202	202	191	168	138	134	110	99
22.5°	197	196	199	203	207	204	184	150	146	116	102
25°	199	198	201	204	210	212	198	165	159	124	107
27.5°	205	204	206	208	214	219	210	180	174	132	112
30°	213	212	213	213	221	225	219	194	189	140	118
32.5°	223	223	224	221	228	231	229	207	202	151	125
35°	229	229	232	231	234	240	242	220	216	164	135
37.5°	238	237	239	237	240	248	256	234	229	179	145
40°	272	270	267	252	248	258	270	253	248	195	156
42.5°	300	300	295	276	263	269	286	267	262	204	162
45°	314	310	308	293	292	281	302	282	277	218	173
47.5°	330	324	316	308	316	298	320	305	297	232	185
50°	337	331	329	323	330	316	337	331	324	249	198
52.5°	323	322	329	332	331	326	354	360	353	264	211
55°	266	270	301	326	331	332	370	392	384	281	221
57.5°	189	195	229	304	326	338	389	426	418	299	228
60°	143	144	163	255	312	341	404	461	452	314	230
62.5°	112	116	130	192	280	335	412	486	478	324	227
65°	60	64	85	150	240	316	396	489	483	330	222
67.5°	35	36	44	105	205	288	364	458	458	321	209
70°	23	24	27	56	158	251	313	414	419	288	186
72.5°	18	19	20	32	102	198	250	344	352	243	144
75°	15	15	16	22	59	114	186	259	269	180	105
77.5°	11	12	13	15	27	51	109	165	173	127	78
80°	8	9	10	11	14	22	50	76	85	76	49
82.5°	5	6	7	7	8	10	20	20	22	34	26
85°	3	3	3	4	4	4	8	4	4	9	10
87.5°	1	1	1	1	1	1	2	1	1	1	2
90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P#

CATALOG NUMBER: ARCH2-30-AMB-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85	85	85	85	85	85	85	85	85	85	85
2.5°	85	84	82	80	79	78	77	75	75	75	74
5°	86	84	81	77	73	69	65	61	60	59	58
7.5°	86	84	78	71	63	57	51	47	46	45	45
10°	87	83	75	63	53	45	41	39	38	38	38
12.5°	88	84	71	56	44	39	36	35	35	35	35
15°	90	84	67	49	39	35	33	33	33	33	33
17.5°	91	84	62	42	35	33	32	31	31	31	31
20°	93	84	57	38	32	31	30	29	29	29	29
22.5°	96	85	52	35	31	29	28	27	27	27	27
25°	99	86	48	33	29	27	26	26	25	25	26
27.5°	103	87	45	31	27	26	24	24	24	24	24
30°	107	87	42	29	26	24	22	22	22	22	22
32.5°	113	89	41	29	24	22	21	21	20	20	20
35°	120	92	40	28	23	21	20	19	19	19	19
37.5°	129	98	41	27	22	20	19	18	18	18	18
40°	139	103	42	27	21	19	18	17	17	17	17
42.5°	141	98	42	27	21	18	17	17	17	17	17
45°	148	99	41	27	20	18	17	16	16	16	16
47.5°	157	101	40	26	20	17	16	15	15	15	16
50°	165	103	39	24	20	17	16	15	15	15	15
52.5°	173	104	38	23	19	16	15	14	14	14	14
55°	178	105	37	22	19	15	14	14	13	13	13
57.5°	181	105	36	21	17	14	14	13	12	12	12
60°	180	106	34	19	15	14	13	12	11	11	11
62.5°	173	104	32	16	14	13	12	11	11	10	11
65°	165	101	28	13	13	12	11	10	10	9	10
67.5°	147	90	22	11	12	11	10	9	9	8	8
70°	126	75	16	10	11	10	9	8	8	7	7
72.5°	100	58	11	9	9	8	8	7	7	6	7
75°	77	38	9	8	8	7	7	6	6	6	6
77.5°	51	19	7	7	7	6	5	5	5	5	5
80°	25	9	5	6	6	5	4	4	4	4	4
82.5°	12	5	4	5	4	3	3	3	3	3	3
85°	5	2	3	3	3	2	2	3	2	3	3
87.5°	2	1	1	1	2	1	1	1	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)