

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: P595011

Luminaire Tested: **IST-PA1A-AMB-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-AMB-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1344.1 lumens  
Efficiency: N/A  
Efficacy: 42.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

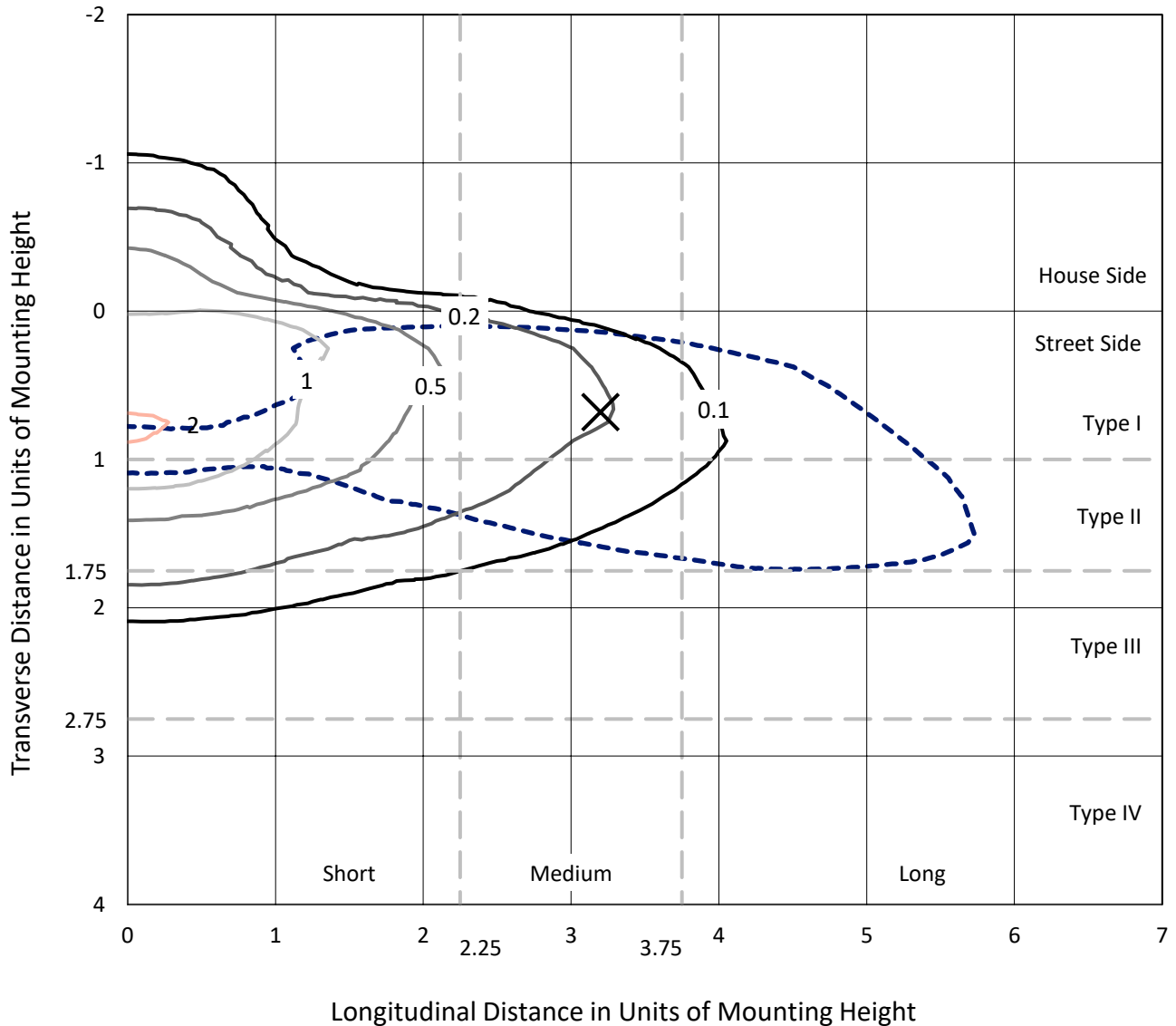
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

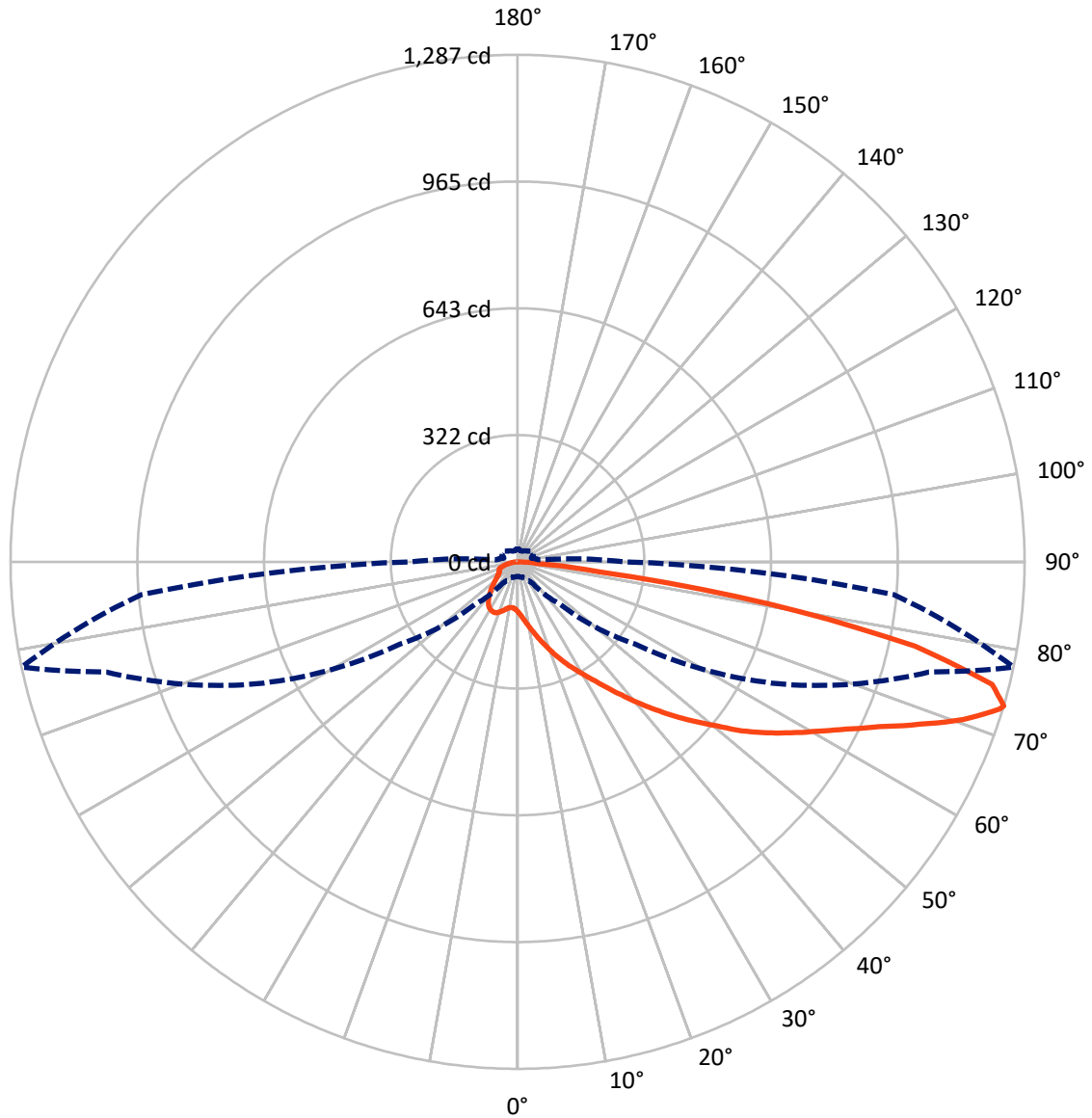
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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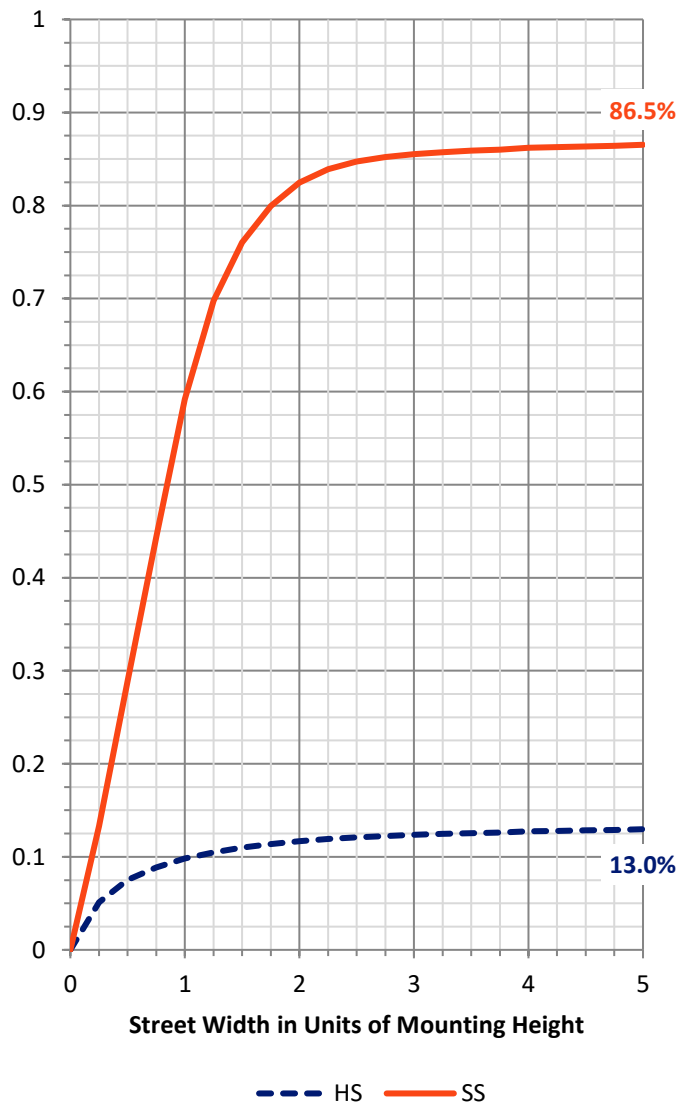
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	177.2	0.0	177.2
	% Fixture	13.2	0.0	13.2
<b>Street Side</b>	Lumens	1166.8	0.0	1166.8
	% Fixture	86.8	0.0	86.8
<b>Total</b>	Lumens	1344.1	0.0	1344.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.0	1.1
10°-20°	53.2	4.0
20°-30°	94.6	7.0
30°-40°	162.0	12.1
40°-50°	251.4	18.7
50°-60°	280.1	20.8
60°-70°	265.5	19.8
70°-80°	191.0	14.2
80°-90°	31.2	2.3
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°	1344.1	100.0
0°-180°	1344.1	100.0

**Coefficient of Utilization**

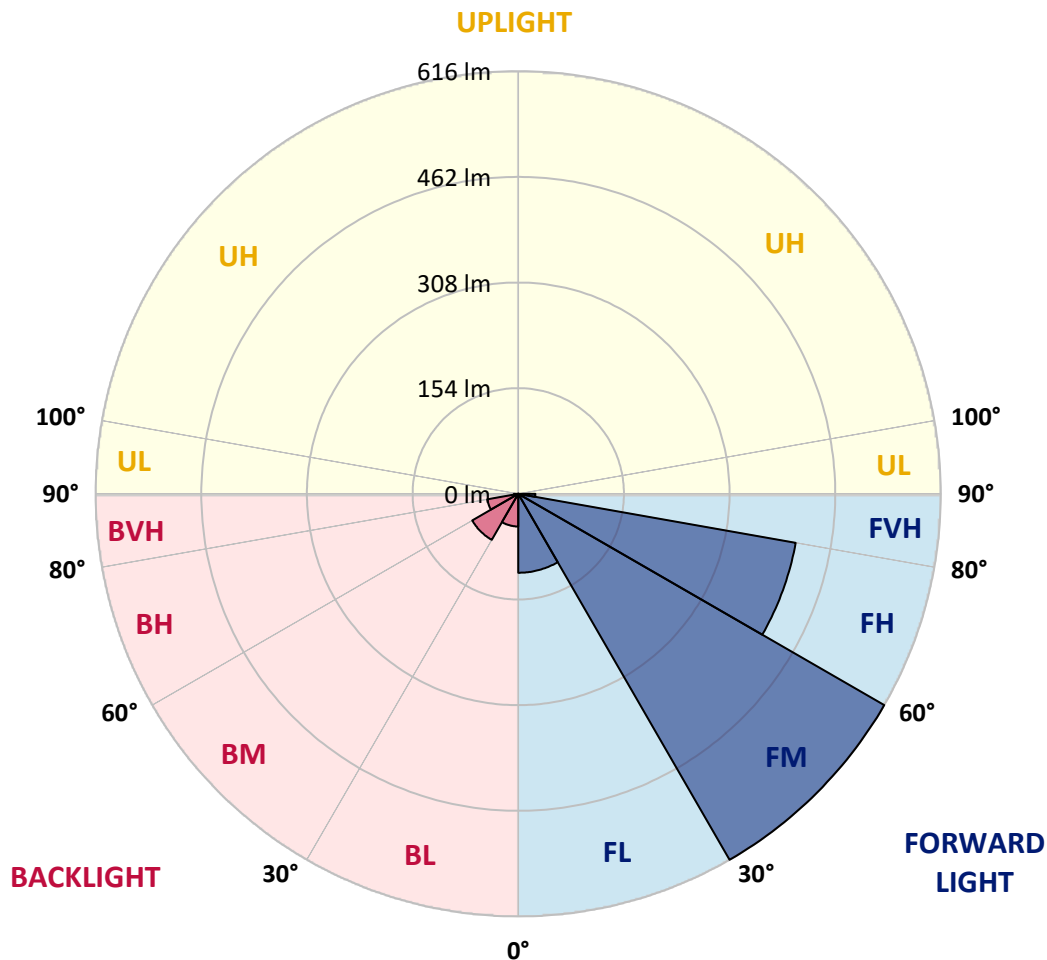


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.1	8.6			
FM (30°-60°)	616.1	45.8			
FH (60°-80°)	410.6	30.6			G0/660
FVH (80°-90°)	25.0	1.9			G1/100
BL (0°-30°)	47.6	3.5	B0/110		
BM (30°-60°)	77.5	5.8	B0/220		
BH (60°-80°)	45.9	3.4	B0/110		G0/110
BVH (80°-90°)	6.2	0.5			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	127	127	127	127	127	127	127	127	127	127	127
2.5°	171	170	167	165	162	157	149	143	136	134	130
5°	222	221	218	214	208	196	180	163	148	144	134
7.5°	251	251	249	245	239	227	210	189	162	156	140
10°	267	267	265	263	260	250	235	212	179	169	147
12.5°	272	272	274	275	275	268	254	232	198	185	157
15°	262	263	267	275	283	281	271	251	216	202	168
17.5°	258	259	264	271	284	292	287	269	235	221	182
20°	262	262	268	277	287	297	302	288	256	241	198
22.5°	269	270	275	285	298	307	312	305	276	263	216
25°	283	283	286	294	309	322	324	319	299	286	236
27.5°	308	308	305	306	320	339	340	331	321	308	257
30°	370	365	350	335	332	354	359	343	344	333	277
32.5°	447	444	425	390	362	370	383	361	369	360	301
35°	552	548	522	465	412	393	406	382	398	393	326
37.5°	631	629	602	550	479	434	433	407	428	429	354
40°	679	676	658	619	554	484	466	437	461	470	384
42.5°	687	685	679	660	616	548	504	468	496	513	415
45°	673	673	673	670	654	609	550	501	535	559	448
47.5°	635	639	650	664	665	651	603	535	572	605	482
50°	559	567	595	632	658	671	652	572	611	654	522
52.5°	427	432	489	562	629	669	695	620	657	713	564
55°	350	351	380	458	566	653	722	665	696	766	607
57.5°	330	330	338	373	463	615	734	713	733	819	654
60°	302	301	312	335	390	545	728	753	770	873	704
62.5°	240	245	262	300	342	459	706	783	812	935	763
65°	158	164	185	233	301	394	659	808	860	1009	826
67.5°	81	84	105	152	225	338	583	820	923	1101	892
70°	46	47	55	80	142	260	491	813	993	1200	953
72.5°	38	39	40	47	75	168	389	750	1070	1279	969
73°	37	38	40	44	66	152	364	733	1081	1287	958
75°	34	34	36	38	43	92	261	653	1089	1244	873
77.5°	30	30	32	33	35	51	146	508	987	1031	655
80°	25	25	26	28	31	36	62	340	704	650	328
82.5°	18	18	22	23	26	26	28	144	265	208	70
85°	10	11	16	18	21	13	15	51	67	49	10
87.5°	1	2	6	7	8	3	5	9	12	11	3
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°	127	127	127	127	127	127	127	127	127	127	127
2.5°	127	124	120	117	114	112	111	110	110	109	109
5°	129	123	116	112	110	109	109	109	109	109	109
7.5°	131	123	114	111	111	111	112	113	113	114	114
10°	134	124	115	113	114	115	117	118	119	119	119
12.5°	140	128	117	116	118	119	121	122	122	123	123
15°	148	132	122	121	122	122	122	122	121	121	121
17.5°	157	139	126	124	123	122	119	117	116	116	115
20°	169	146	130	126	123	117	113	109	106	106	106
22.5°	182	154	133	125	117	110	104	99	96	95	93
25°	197	162	133	121	110	101	93	88	83	82	81
27.5°	210	167	130	114	102	91	82	76	73	71	71
30°	225	172	126	107	92	80	71	66	64	62	62
32.5°	239	174	120	98	82	70	62	60	58	55	55
35°	254	174	112	88	72	62	59	56	53	50	49
37.5°	269	171	102	78	63	58	59	52	49	48	47
40°	284	166	92	67	56	57	57	49	47	47	46
42.5°	299	157	81	59	52	56	54	49	46	45	45
45°	314	147	71	52	50	53	53	49	45	45	45
47.5°	329	136	62	48	47	47	49	47	45	44	44
50°	344	123	55	45	46	45	47	45	44	43	43
52.5°	355	111	50	43	45	43	44	43	43	42	41
55°	366	99	47	43	44	42	42	42	42	40	40
57.5°	371	88	45	43	42	41	41	41	40	40	40
60°	376	78	44	43	42	41	40	40	39	40	39
62.5°	381	71	44	44	41	40	39	38	38	39	39
65°	384	67	45	45	41	40	39	37	36	38	38
67.5°	376	64	45	46	42	39	37	35	34	37	36
70°	348	61	43	47	43	39	35	33	32	36	35
72.5°	288	56	38	45	45	38	34	31	29	33	31
73°	272	55	36	44	46	38	34	30	29	32	30
75°	206	47	31	38	45	39	33	29	26	27	26
77.5°	121	35	24	28	40	41	31	26	22	22	22
80°	60	24	19	20	31	41	29	22	17	17	16
82.5°	22	14	13	13	20	36	26	17	13	13	11
85°	8	8	8	8	9	21	22	11	8	7	6
87.5°	2	3	3	2	3	2	9	4	2	1	1
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)