

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: P595017

Luminaire Tested: **IST-PA1A-AMB-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-21)  
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-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1345.1 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 IV - Medium  
BUG Rating: B0 - U0 - G1

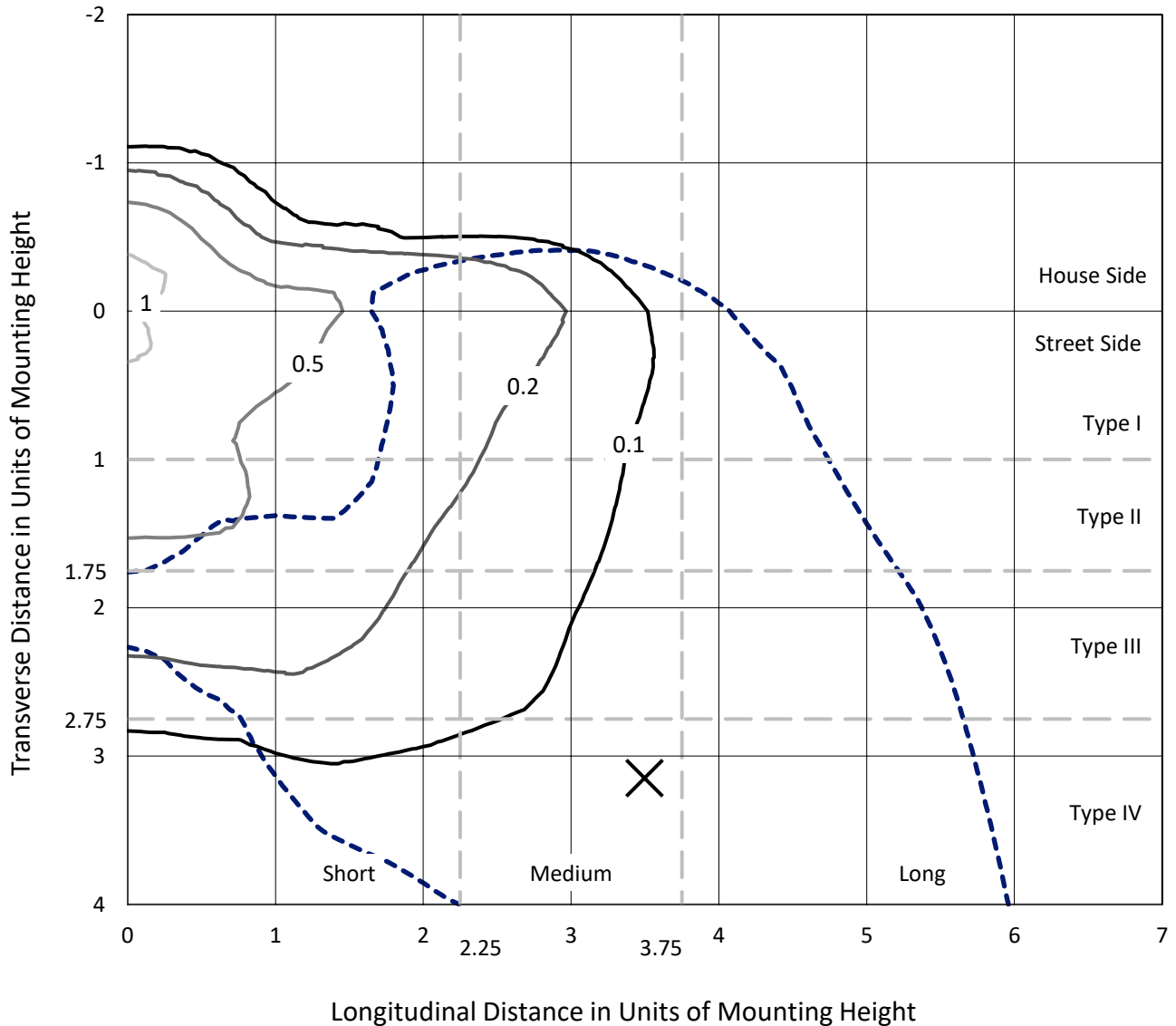
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

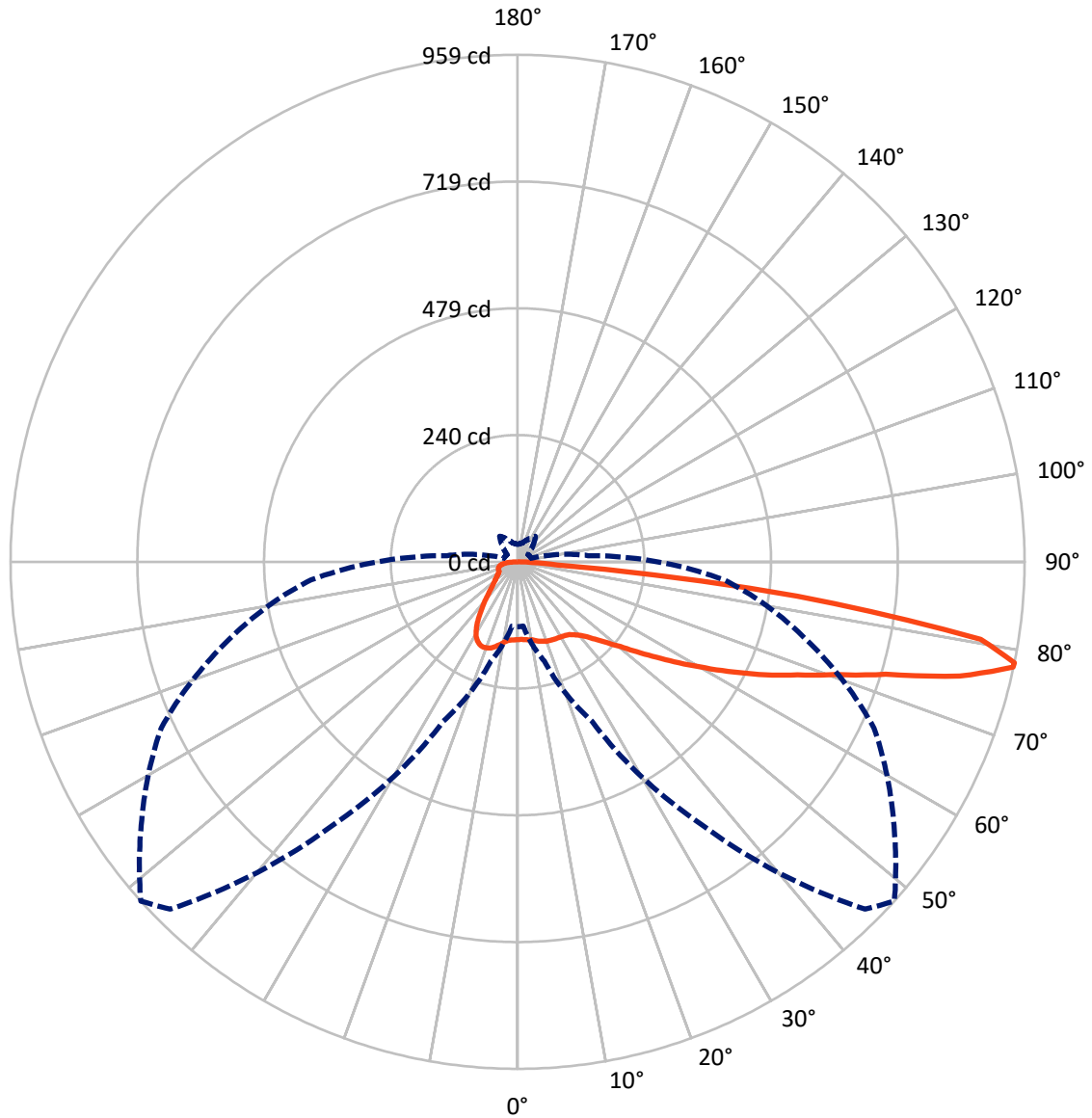
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 78-Deg Vertical

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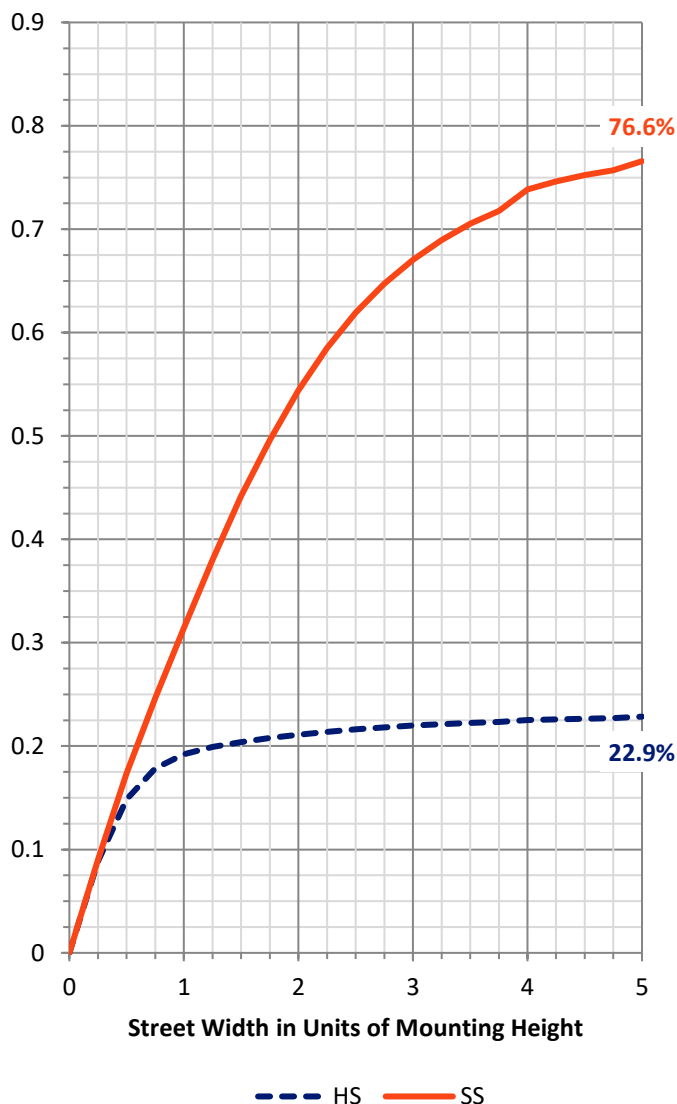
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	314.2	0.0	314.2
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1030.9	0.0	1030.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	1345.1	0.0	1345.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	1.1
10°-20°	45.5	3.4
20°-30°	76.8	5.7
30°-40°	100.8	7.5
40°-50°	132.9	9.9
50°-60°	215.7	16.0
60°-70°	336.9	25.0
70°-80°	355.7	26.4
80°-90°	66.4	4.9
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°	1345.1	100.0
0°-180°	1345.1	100.0

**Coefficient of Utilization**

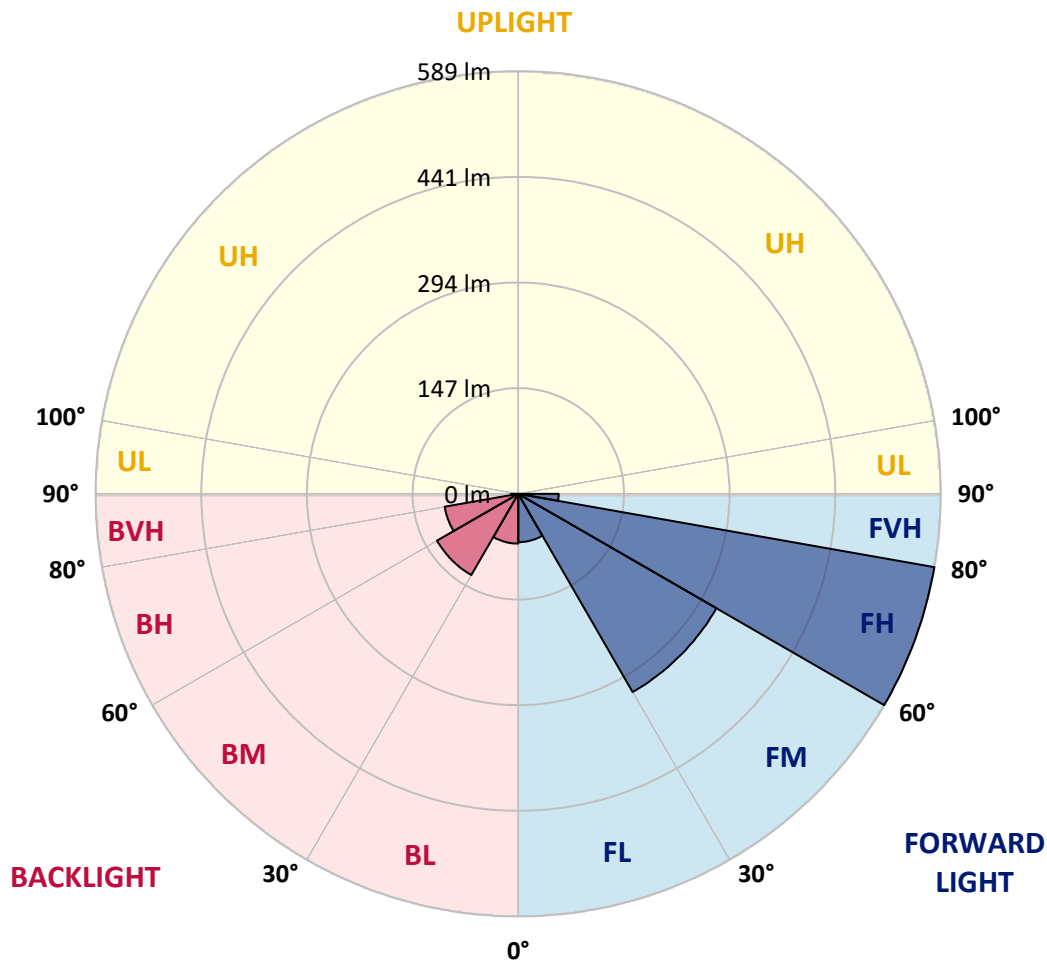


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	67.3	5.0			
FM (30°-60°)	318.8	23.7			
FH (60°-80°)	588.6	43.8			G0/660
FVH (80°-90°)	56.3	4.2			G1/100
BL (0°-30°)	69.4	5.2	B0/110		
BM (30°-60°)	130.6	9.7	B0/220		
BH (60°-80°)	104.0	7.7	B0/110		G0/110
BVH (80°-90°)	10.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	147	147	147	147	147	147	147	147	147	147	147
2.5°	149	149	149	148	148	148	147	147	147	146	146
5°	154	154	153	152	150	149	148	146	145	144	144
7.5°	159	159	158	155	153	150	149	147	144	143	143
10°	164	164	162	159	156	152	150	149	146	144	143
12.5°	168	168	167	163	159	155	153	152	149	146	144
15°	171	171	170	165	160	157	156	154	151	148	145
17.5°	172	172	172	166	161	160	158	158	154	151	147
20°	171	171	172	166	162	161	160	160	157	153	149
22.5°	170	169	171	164	161	162	161	162	161	157	151
25°	167	167	169	162	161	162	162	164	164	160	154
27.5°	166	166	168	162	161	163	163	166	167	164	158
30°	167	167	168	162	162	164	164	167	170	168	162
32.5°	170	170	171	165	164	166	166	169	173	174	167
35°	176	175	177	170	169	170	169	173	178	180	174
37.5°	184	184	187	177	175	175	175	179	184	187	182
40°	201	200	206	189	183	184	183	187	193	196	193
42.5°	233	234	239	206	195	196	194	198	205	209	208
45°	274	276	282	234	213	211	210	213	221	227	228
47.5°	328	324	314	272	239	230	229	233	242	250	255
50°	376	374	361	324	278	253	252	257	269	280	290
52.5°	411	410	412	383	326	285	282	288	304	316	327
55°	426	426	442	441	380	324	319	322	341	354	368
57.5°	442	442	465	487	441	370	360	365	386	396	415
60°	471	473	495	533	495	414	407	409	430	444	472
62.5°	518	519	547	585	551	463	459	457	478	492	534
65°	508	520	591	637	612	522	515	505	530	543	608
67.5°	444	455	570	680	670	583	571	559	581	597	692
70°	393	403	477	692	706	648	639	617	632	646	786
72.5°	370	377	433	659	728	736	728	687	691	693	820
75°	319	319	374	565	736	865	864	800	757	695	714
77.5°	156	167	224	386	644	933	958	869	761	600	462
78°	123	122	194	333	606	929	959	869	744	564	392
80°	31	32	56	133	414	827	888	775	589	375	188
82.5°	15	16	27	49	116	438	533	441	255	113	28
85°	8	8	16	30	66	59	75	92	66	28	10
87.5°	3	3	8	13	25	15	15	21	17	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°	147	147	147	147	147	147	147	147	147	147	147
2.5°	146	147	147	147	147	148	148	148	149	148	149
5°	144	144	145	146	147	149	150	151	152	153	152
7.5°	143	143	144	146	149	150	152	155	157	158	157
10°	143	144	146	149	152	155	158	160	162	163	163
12.5°	144	145	148	153	158	161	163	164	166	168	168
15°	146	147	152	158	163	166	168	168	170	172	172
17.5°	147	149	156	164	169	171	171	172	172	175	175
20°	149	151	160	169	172	173	173	173	174	177	177
22.5°	151	153	164	172	174	174	174	173	174	177	177
25°	154	156	167	173	173	172	172	172	173	176	176
27.5°	157	160	170	172	169	167	168	169	170	173	173
30°	161	164	172	168	161	159	160	162	165	167	167
32.5°	166	169	173	161	149	146	148	154	157	159	159
35°	173	175	174	152	134	130	133	139	144	147	147
37.5°	181	183	174	138	117	113	116	121	126	128	130
40°	193	194	175	125	102	97	98	100	103	105	105
42.5°	207	210	175	110	88	81	80	81	80	80	80
45°	229	232	177	97	77	70	68	66	63	61	61
47.5°	259	262	179	87	68	61	59	57	53	49	48
50°	297	299	181	79	61	55	54	51	47	43	42
52.5°	342	339	183	72	54	52	50	47	42	38	38
55°	383	377	180	64	48	48	47	43	38	36	36
57.5°	441	433	175	57	44	45	44	41	38	37	37
60°	514	504	169	51	41	42	43	41	40	39	39
62.5°	622	587	144	47	38	40	44	45	43	44	44
65°	739	667	106	43	36	41	48	49	46	47	47
67.5°	858	718	66	39	34	41	54	53	47	46	44
70°	923	714	48	36	32	42	59	55	46	44	42
72.5°	849	612	40	33	30	41	62	54	44	41	39
75°	626	406	34	30	27	41	62	52	42	38	37
77.5°	319	177	28	26	24	39	60	48	38	35	34
78°	265	134	27	25	24	39	59	47	37	34	33
80°	113	53	22	21	21	36	55	43	33	30	28
82.5°	33	20	16	16	17	32	49	37	29	24	23
85°	11	9	11	11	12	25	41	30	20	15	14
87.5°	4	5	5	5	6	13	23	16	10	6	7
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)