

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: P453072

Luminaire Tested: **GALN-SA4A-750-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17708 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

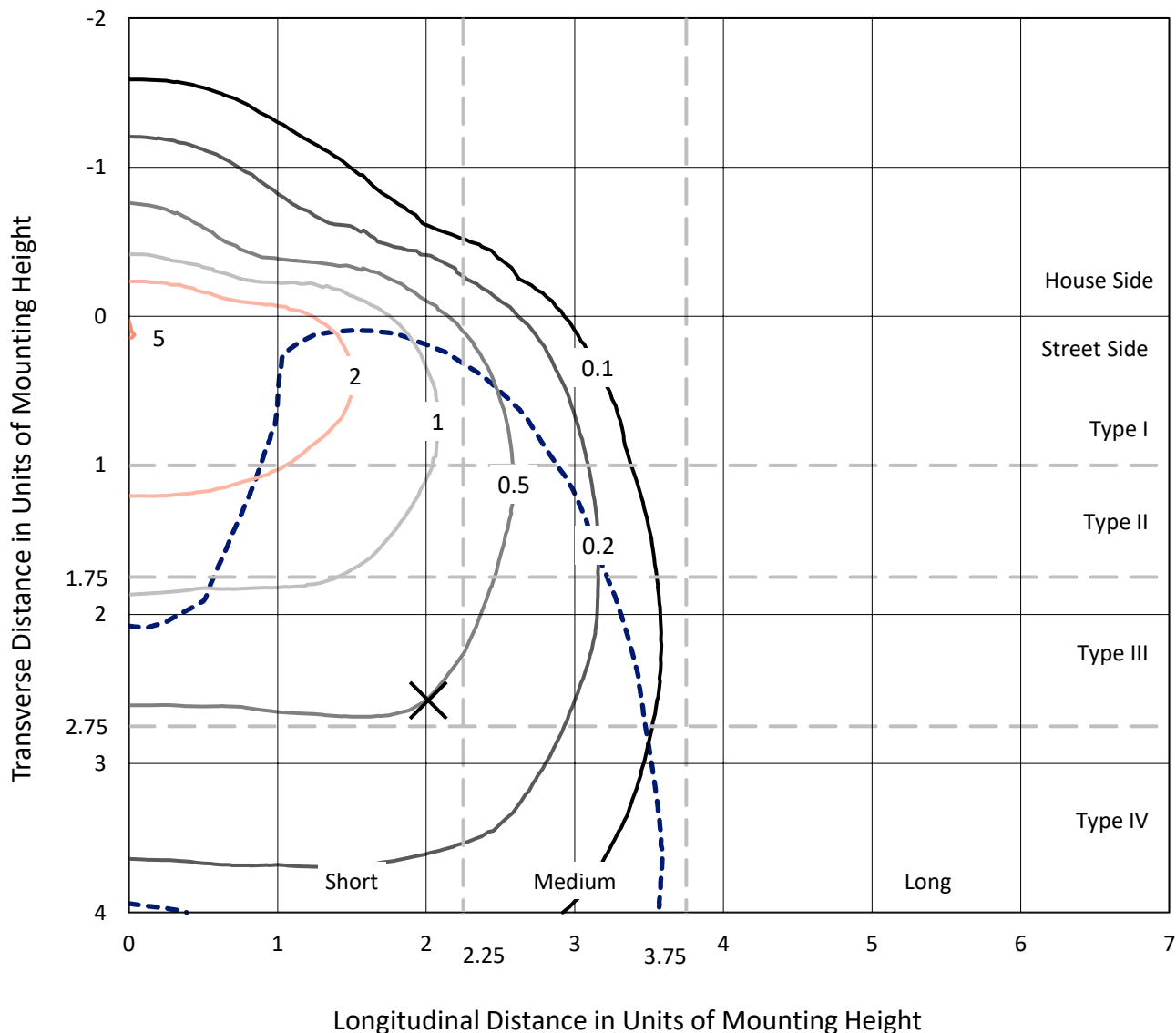
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

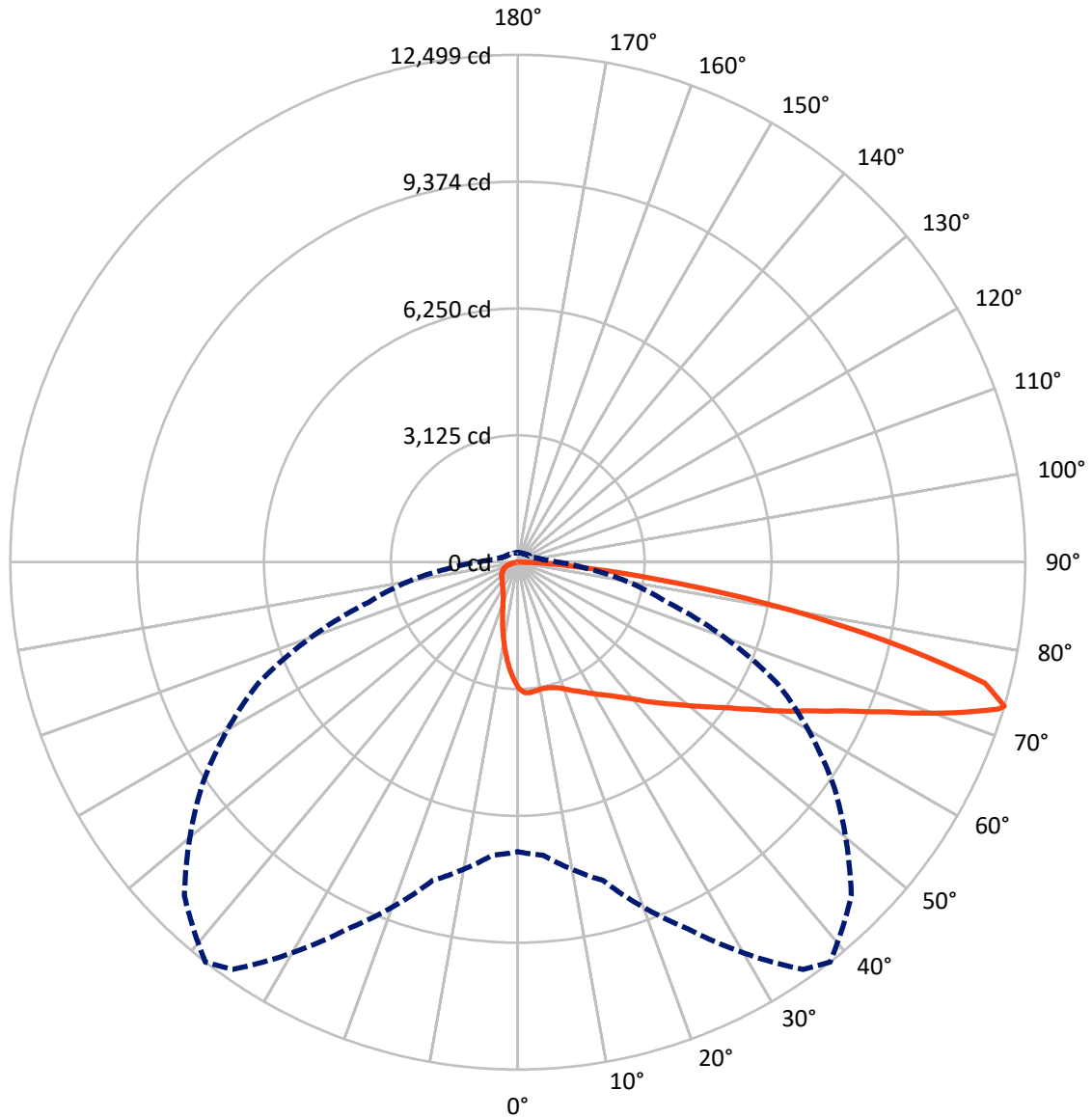
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.5	0.0	2380.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15327.5	0.0	15327.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	17708.0	0.0	17708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.5
10°-20°	696.4	3.9
20°-30°	1084.4	6.1
30°-40°	1590.5	9.0
40°-50°	2359.3	13.3
50°-60°	3342.7	18.9
60°-70°	4240.3	23.9
70°-80°	3529.8	19.9
80°-90°	593.1	3.3
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°	17708.0	100.0
0°-180°	17708.0	100.0

Coefficient of Utilization



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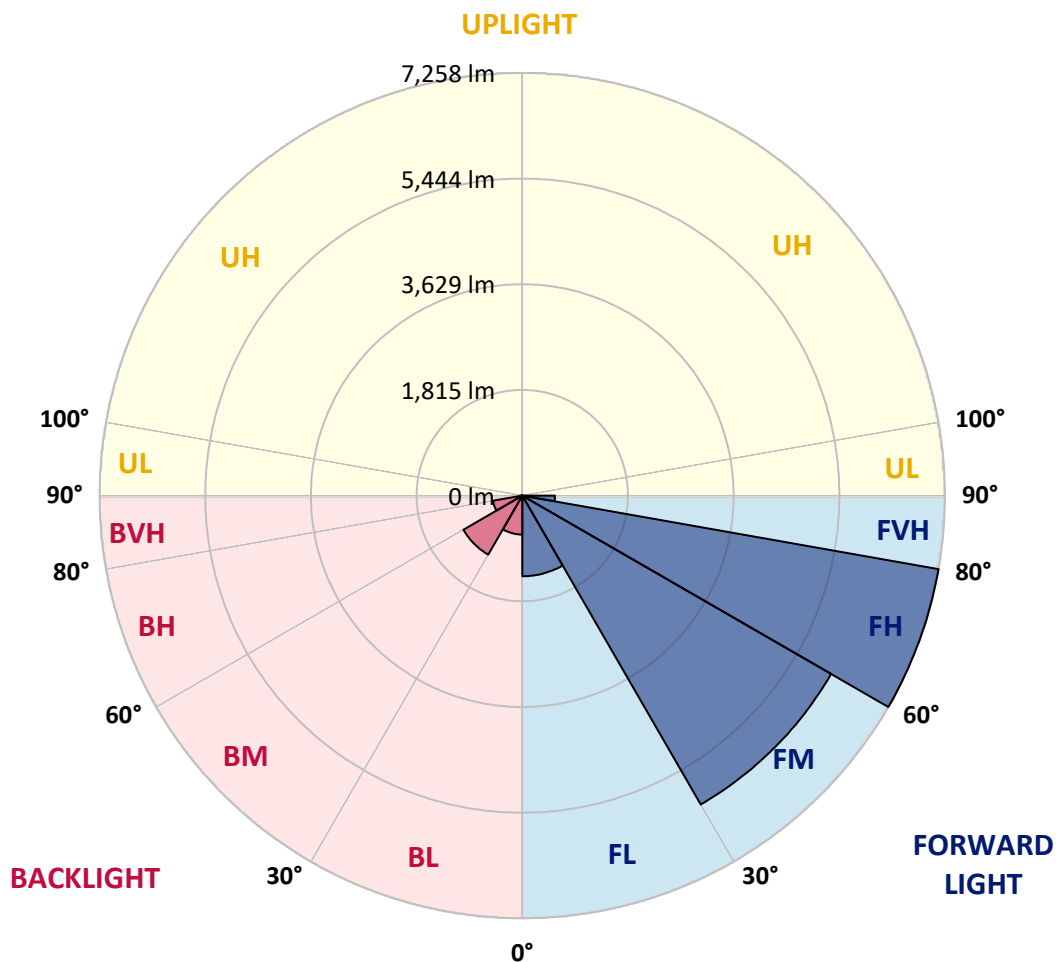
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1384.3	7.8			
FM	(30°-60°)	6123.9	34.6			
FH	(60°-80°)	7258.4	41.0			G3/7500
FVH	(80°-90°)	560.9	3.2			G4/750
BL	(0°-30°)	668.0	3.8	B2/1000		
BM	(30°-60°)	1168.7	6.6	B2/2500		
BH	(60°-80°)	511.7	2.9	B2/1000		G2/1000
BVH	(80°-90°)	32.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3111	3111	3111	3111	3111	3111	3111	3111	3111	3111	3111
2.5°	3236	3252	3244	3233	3226	3219	3209	3180	3157	3132	3093
5°	3260	3270	3263	3249	3233	3226	3207	3169	3132	3090	3032
7.5°	3246	3250	3242	3225	3211	3198	3176	3134	3089	3038	2962
10°	3196	3211	3211	3197	3183	3176	3154	3114	3073	3015	2925
12.5°	3155	3171	3184	3180	3179	3179	3162	3132	3084	3029	2922
15°	3127	3146	3174	3190	3200	3203	3196	3170	3121	3057	2934
17.5°	3121	3144	3195	3230	3256	3255	3253	3217	3163	3097	2949
20°	3148	3178	3249	3304	3342	3335	3324	3277	3214	3140	2963
22.5°	3229	3260	3338	3398	3435	3435	3402	3340	3273	3190	2982
25°	3345	3379	3462	3523	3540	3527	3494	3419	3342	3262	3022
27.5°	3487	3528	3605	3656	3651	3641	3607	3511	3434	3361	3090
30°	3664	3694	3774	3786	3768	3766	3718	3622	3550	3494	3187
32.5°	3831	3858	3922	3927	3895	3899	3854	3766	3725	3705	3350
35°	4008	4022	4077	4071	4050	4047	4029	3945	3958	3994	3581
37.5°	4156	4184	4215	4220	4219	4229	4241	4201	4276	4389	3884
40°	4292	4316	4362	4378	4417	4437	4478	4479	4652	4838	4257
42.5°	4384	4425	4511	4540	4635	4695	4756	4821	5072	5311	4697
45°	4464	4518	4661	4751	4880	4953	5082	5218	5579	5892	5144
47.5°	4585	4633	4797	4956	5151	5235	5428	5631	6103	6446	5572
50°	4753	4782	4949	5208	5457	5565	5820	6113	6663	6993	5948
52.5°	4968	4980	5113	5458	5786	5920	6258	6600	7153	7468	6246
55°	5222	5202	5306	5723	6162	6337	6700	7093	7704	7852	6463
57.5°	5473	5442	5525	6045	6626	6837	7260	7601	8196	8211	6615
60°	5739	5716	5815	6423	7195	7445	7836	8128	8672	8461	6639
62.5°	6012	5975	6116	6848	7836	8063	8442	8688	9139	8554	6408
65°	6277	6260	6478	7353	8566	8824	9192	9359	9513	8414	5835
67.5°	6559	6593	6941	8027	9518	9842	10239	10082	9620	7751	4914
70°	6989	7011	7549	8910	10745	11136	11328	10339	9104	6492	3694
72.5°	7174	7271	8092	9837	12139	12378	11694	9766	7584	4410	1941
73°	7133	7249	8117	9978	12248	12499	11616	9471	7050	3798	1664
75°	6622	6765	7792	9860	12036	11886	10362	8072	4764	1727	758
77.5°	5225	5266	6174	7962	9478	9200	7755	5045	1946	642	430
80°	2621	2772	3480	4561	6338	6247	4895	2386	811	377	285
82.5°	1261	1368	1695	2224	3502	3419	2424	1304	515	220	168
85°	812	892	1079	1061	1440	1375	1089	987	305	115	117
87.5°	536	587	704	563	524	474	481	556	60	44	16
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°	3111	3111	3111	3111	3111	3111	3111	3111	3111	3111	3111
2.5°	3077	3064	3021	2979	2939	2901	2876	2843	2821	2827	2836
5°	3000	2971	2895	2821	2751	2668	2601	2547	2506	2491	2488
7.5°	2919	2870	2761	2634	2515	2412	2293	2234	2165	2141	2133
10°	2870	2804	2651	2474	2295	2124	1995	1890	1795	1777	1768
12.5°	2856	2769	2563	2335	2097	1887	1696	1558	1466	1445	1414
15°	2848	2740	2481	2195	1893	1637	1436	1275	1191	1135	1136
17.5°	2841	2707	2389	2042	1717	1422	1200	1055	978	948	945
20°	2831	2668	2283	1881	1516	1226	1025	917	865	840	839
22.5°	2827	2630	2179	1717	1338	1075	909	833	800	783	783
25°	2837	2603	2070	1561	1180	946	829	777	758	749	746
27.5°	2868	2591	1962	1405	1035	858	775	739	725	718	719
30°	2927	2590	1856	1251	927	791	732	707	696	692	691
32.5°	3022	2612	1752	1124	836	735	692	674	669	666	665
35°	3183	2674	1649	1008	766	685	654	645	638	641	642
37.5°	3400	2781	1551	917	713	648	622	614	610	613	616
40°	3691	2935	1469	844	675	617	594	587	583	588	589
42.5°	4012	3113	1401	787	644	591	569	561	558	561	562
45°	4342	3320	1366	746	618	572	549	540	533	531	534
47.5°	4667	3500	1365	721	597	555	530	520	511	506	505
50°	4932	3643	1389	710	579	536	511	501	489	479	481
52.5°	5132	3736	1400	705	569	516	491	482	468	455	455
55°	5261	3758	1373	700	561	495	468	460	446	433	433
57.5°	5305	3690	1276	688	553	477	445	438	427	414	412
60°	5203	3460	1106	652	537	458	420	417	413	402	401
62.5°	4810	2972	921	605	510	438	397	402	405	399	398
65°	4156	2413	787	540	474	410	372	385	393	393	391
67.5°	3371	1853	663	484	429	372	344	354	360	358	363
70°	2396	1255	540	420	372	329	308	308	304	302	302
72.5°	1162	717	438	351	317	281	264	257	249	248	243
73°	971	643	418	338	304	274	255	244	239	235	234
75°	591	488	349	285	259	236	219	209	204	201	200
77.5°	389	364	271	218	198	184	177	167	164	160	160
80°	290	278	194	154	142	130	128	126	118	113	111
82.5°	187	198	132	103	90	80	81	84	76	69	67
85°	133	143	80	47	38	33	37	33	34	27	22
87.5°	22	38	14	6	3	2	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)