

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: P940797

Luminaire Tested: **GALN-SB4A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19032.9 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

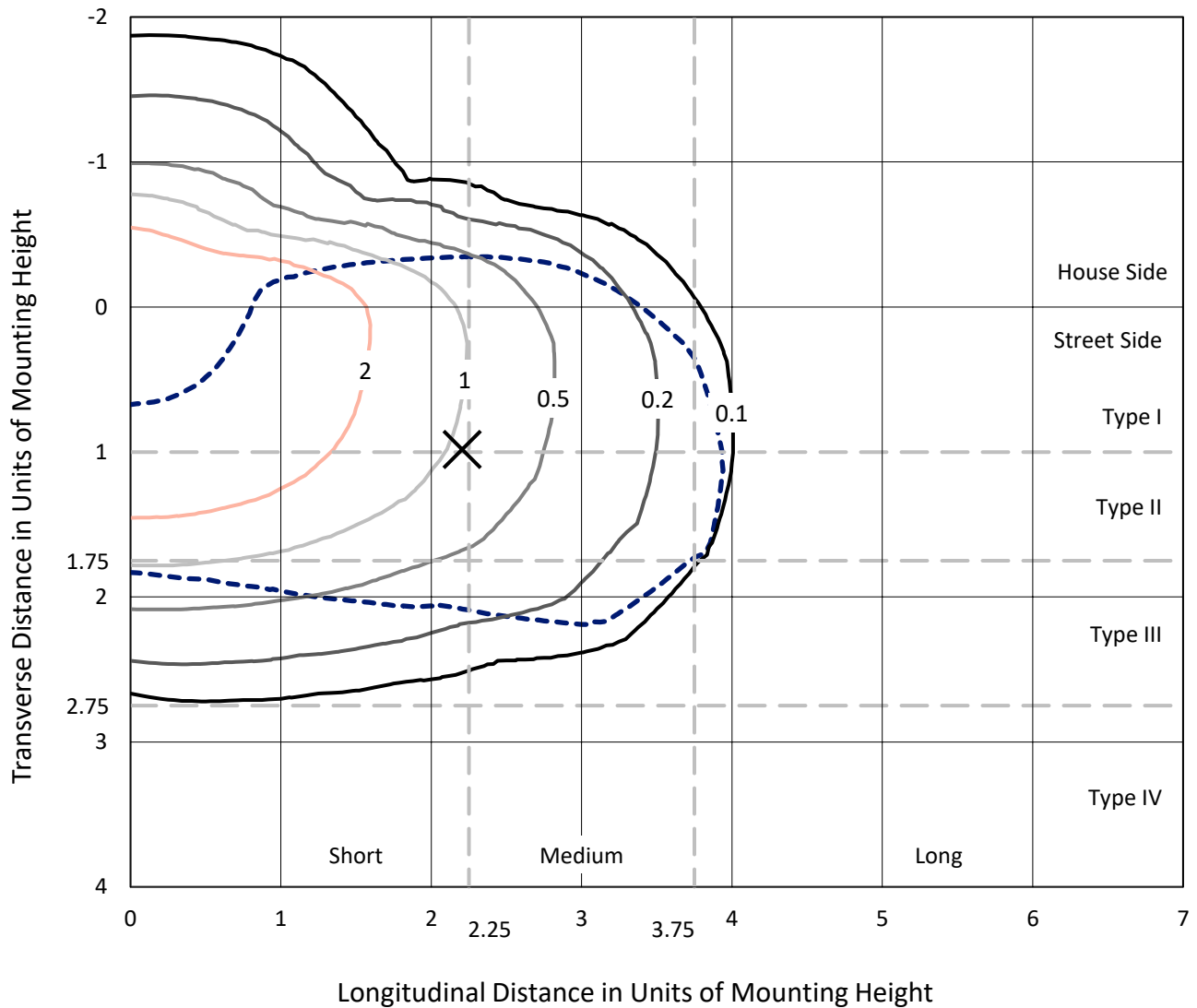
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

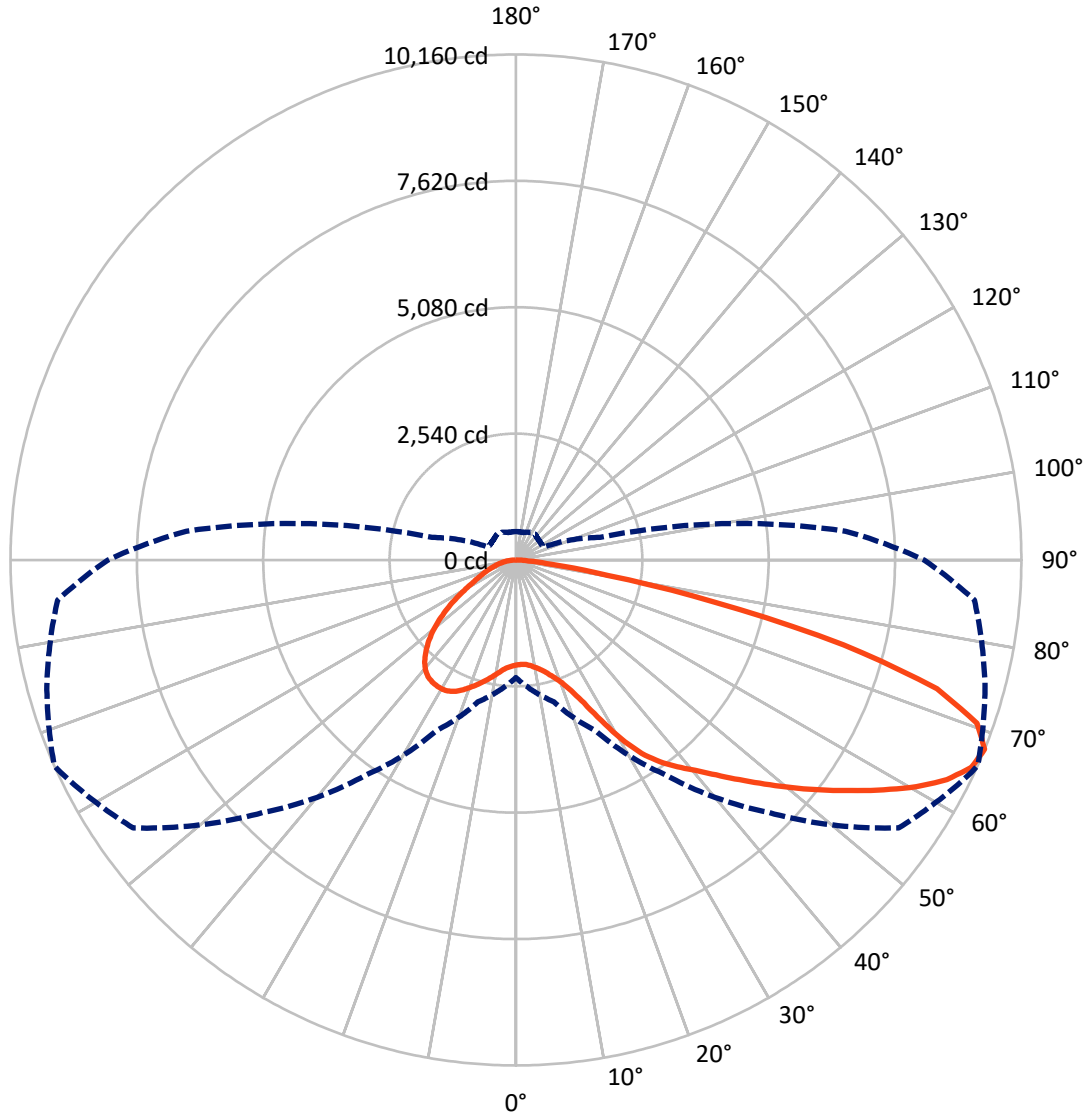
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4732.5	0.0	4732.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14300.4	0.0	14300.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	19032.9	0.0	19032.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.1
10°-20°	691.5	3.6
20°-30°	1332.8	7.0
30°-40°	2336.9	12.3
40°-50°	3474.2	18.3
50°-60°	4403.9	23.1
60°-70°	4309.1	22.6
70°-80°	2055.5	10.8
80°-90°	219.7	1.2
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°	19032.9	100.0
0°-180°	19032.9	100.0

Coefficient of Utilization



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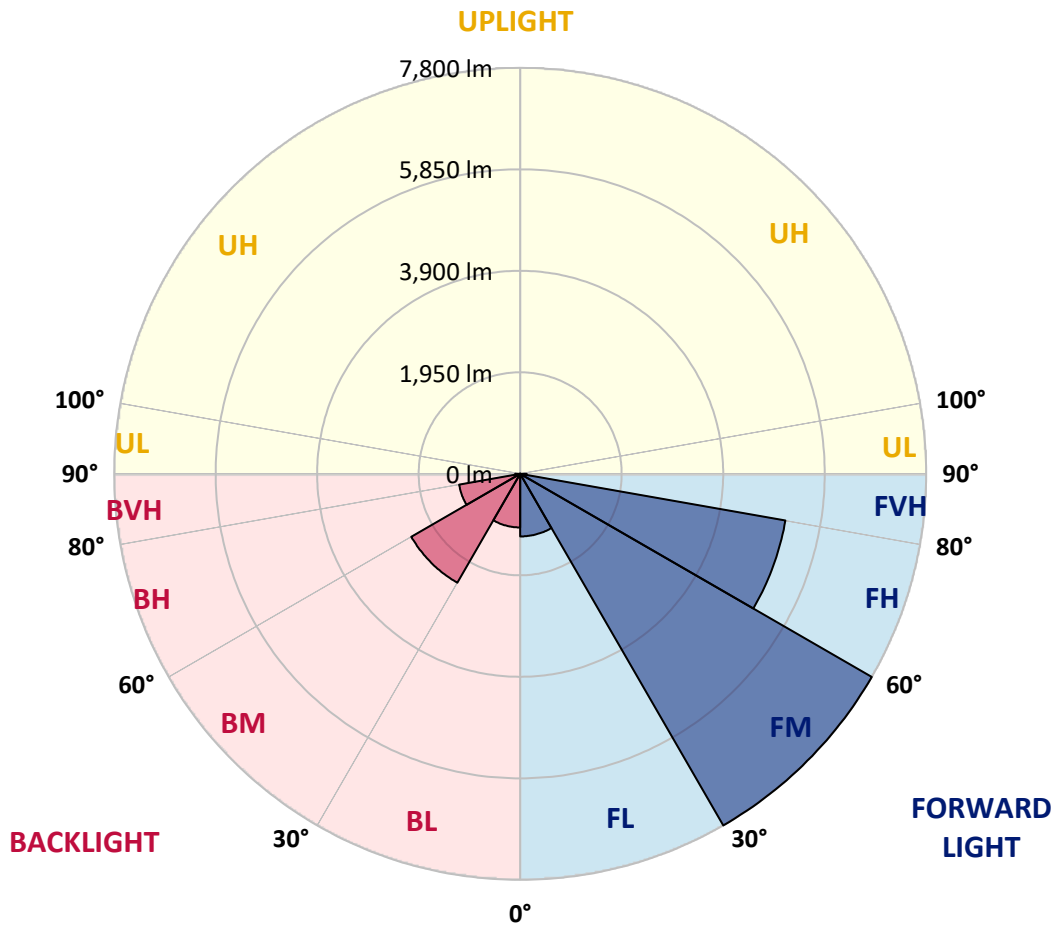
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.7	6.3			
FM (30°-60°)	7799.5	41.0			
FH (60°-80°)	5173.7	27.2			G3/7500
FVH (80°-90°)	124.5	0.7			G2/225
BL (0°-30°)	1030.9	5.4	B3/2500		
BM (30°-60°)	2415.5	12.7	B2/2500		
BH (60°-80°)	1190.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
2.5°	2089	2101	2098	2093	2092	2094	2097	2100	2099	2104
5°	2083	2095	2094	2094	2098	2106	2111	2116	2111	2117
7.5°	2087	2096	2100	2104	2114	2129	2141	2152	2146	2153
10°	2138	2145	2149	2149	2156	2173	2185	2205	2200	2211
12.5°	2231	2238	2238	2234	2239	2250	2254	2276	2267	2285
15°	2345	2359	2348	2341	2343	2354	2353	2370	2361	2376
17.5°	2471	2489	2471	2470	2466	2478	2479	2494	2478	2489
20°	2620	2645	2630	2635	2626	2631	2636	2658	2633	2641
22.5°	2830	2860	2844	2863	2857	2853	2852	2891	2852	2855
25°	3136	3172	3144	3170	3170	3183	3198	3248	3183	3164
27.5°	3588	3624	3569	3585	3580	3612	3596	3720	3650	3619
30°	4132	4196	4092	4088	4083	4134	4157	4239	4168	4137
32.5°	4720	4787	4663	4627	4608	4639	4620	4686	4637	4589
35°	5342	5408	5290	5220	5144	5079	5011	5028	4982	4909
37.5°	5930	6051	5926	5851	5711	5584	5394	5315	5272	5205
40°	6529	6598	6503	6439	6287	6088	5784	5617	5559	5494
42.5°	6970	7036	6985	6941	6822	6591	6198	5989	5905	5832
45°	7320	7369	7337	7353	7302	7078	6627	6388	6301	6212
47.5°	7461	7513	7564	7659	7746	7581	7088	6820	6728	6637
50°	7445	7498	7646	7848	8118	8063	7574	7280	7195	7091
52.5°	7317	7377	7567	7903	8333	8424	8069	7755	7675	7551
55°	6981	7017	7302	7778	8384	8676	8554	8261	8181	8008
57.5°	6358	6410	6825	7441	8256	8847	8980	8793	8716	8467
60°	5545	5628	6103	6875	7930	8846	9367	9316	9252	8919
62.5°	4625	4721	5178	6075	7360	8595	9609	9754	9721	9336
65°	3552	3618	4073	5040	6473	8056	9637	10053	10059	9653
67.5°	2365	2555	2950	3782	5285	7175	9391	10102	10160	9762
70°	1154	1404	1791	2458	3782	5824	8748	9700	9829	9444
72.5°	479	560	771	1213	2171	3930	7456	8610	8849	8368
75°	323	350	441	622	989	1938	5377	6420	6805	6320
77.5°	249	266	321	435	588	733	2878	3869	4068	3766
80°	196	209	240	317	417	392	981	1753	1868	1567
82.5°	170	175	172	215	277	229	322	647	714	518
85°	123	137	143	133	147	116	132	229	252	225
87.5°	50	74	91	86	54	33	41	67	77	84
90°	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2111	0°	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111
2112	2.5°	2113	2120	2125	2131	2135	2141	2153	2160	2161	2166
2128	5°	2132	2142	2153	2169	2187	2202	2225	2241	2247	2252
2167	7.5°	2173	2187	2207	2235	2261	2281	2309	2328	2347	2354
2229	10°	2234	2254	2283	2321	2349	2375	2404	2420	2439	2447
2303	12.5°	2310	2331	2369	2422	2448	2466	2476	2472	2476	2483
2392	15°	2397	2420	2463	2520	2538	2522	2500	2480	2477	2479
2500	17.5°	2500	2517	2567	2615	2602	2536	2488	2456	2440	2435
2638	20°	2644	2644	2685	2715	2628	2516	2441	2389	2356	2342
2826	22.5°	2819	2803	2829	2808	2623	2460	2356	2266	2216	2196
3089	25°	3041	3022	3015	2885	2587	2371	2202	2093	2049	2038
3468	27.5°	3376	3328	3237	2927	2521	2231	2022	1921	1896	1897
3955	30°	3822	3726	3503	2934	2413	2033	1838	1766	1754	1759
4364	32.5°	4235	4144	3775	2902	2247	1839	1673	1625	1607	1613
4676	35°	4559	4534	4027	2857	2043	1657	1525	1484	1449	1441
4970	37.5°	4865	4855	4216	2794	1841	1528	1406	1352	1301	1273
5295	40°	5201	5191	4340	2697	1662	1416	1299	1228	1165	1114
5663	42.5°	5579	5520	4399	2558	1510	1321	1212	1116	1033	986
6079	45°	5992	5859	4398	2381	1382	1234	1119	983	906	862
6506	47.5°	6430	6183	4344	2185	1258	1138	975	871	820	793
6970	50°	6882	6486	4252	1960	1131	1029	885	814	775	750
7430	52.5°	7307	6761	4141	1705	1002	923	845	790	749	721
7876	55°	7702	6998	3984	1444	897	852	826	780	733	700
8329	57.5°	8053	7152	3713	1199	822	803	806	763	709	681
8775	60°	8345	7265	3312	972	761	755	775	731	668	636
9152	62.5°	8520	7263	2820	796	709	711	734	691	627	597
9349	65°	8505	7085	2280	681	659	661	691	647	593	575
9250	67.5°	8204	6651	1749	606	604	613	648	617	572	570
8660	70°	7389	5750	1260	546	547	560	606	598	561	565
7281	72.5°	5925	4384	846	483	484	505	566	583	550	603
5166	75°	3946	2734	544	416	417	444	531	554	520	601
2688	77.5°	1896	1229	394	350	350	375	459	496	443	467
864	80°	655	462	310	282	276	293	387	430	382	352
282	82.5°	258	240	249	219	199	210	301	355	281	254
159	85°	148	156	176	145	115	129	221	255	212	187
52	87.5°	40	55	81	75	52	55	105	141	122	94
0	90°	0	0	0	0	0	0	0	0	0	0

(END O

<u>180°</u>
2111
2165
2251
2355
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