

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: P949204

Luminaire Tested: **GALN-SB4A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18905 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

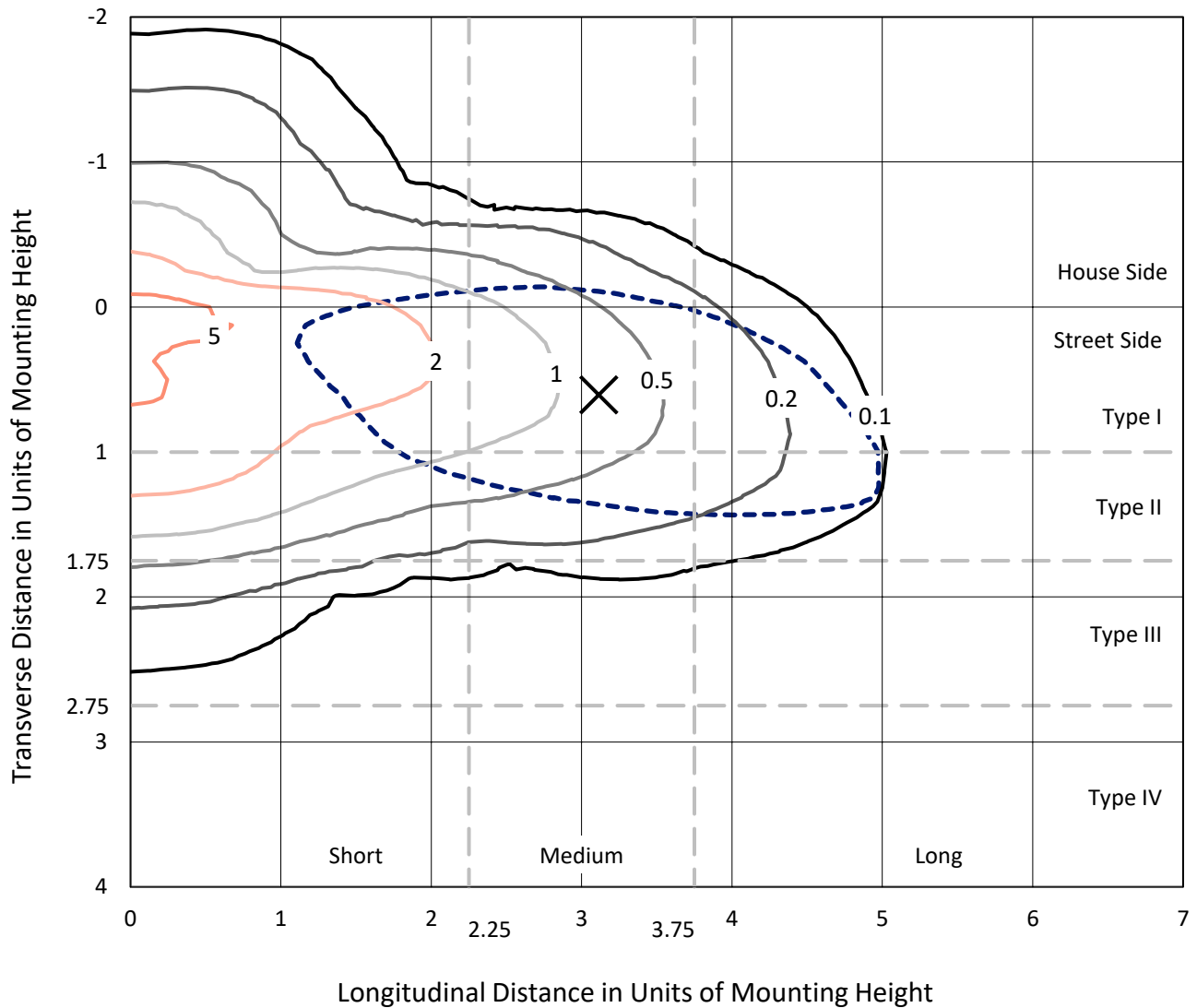
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

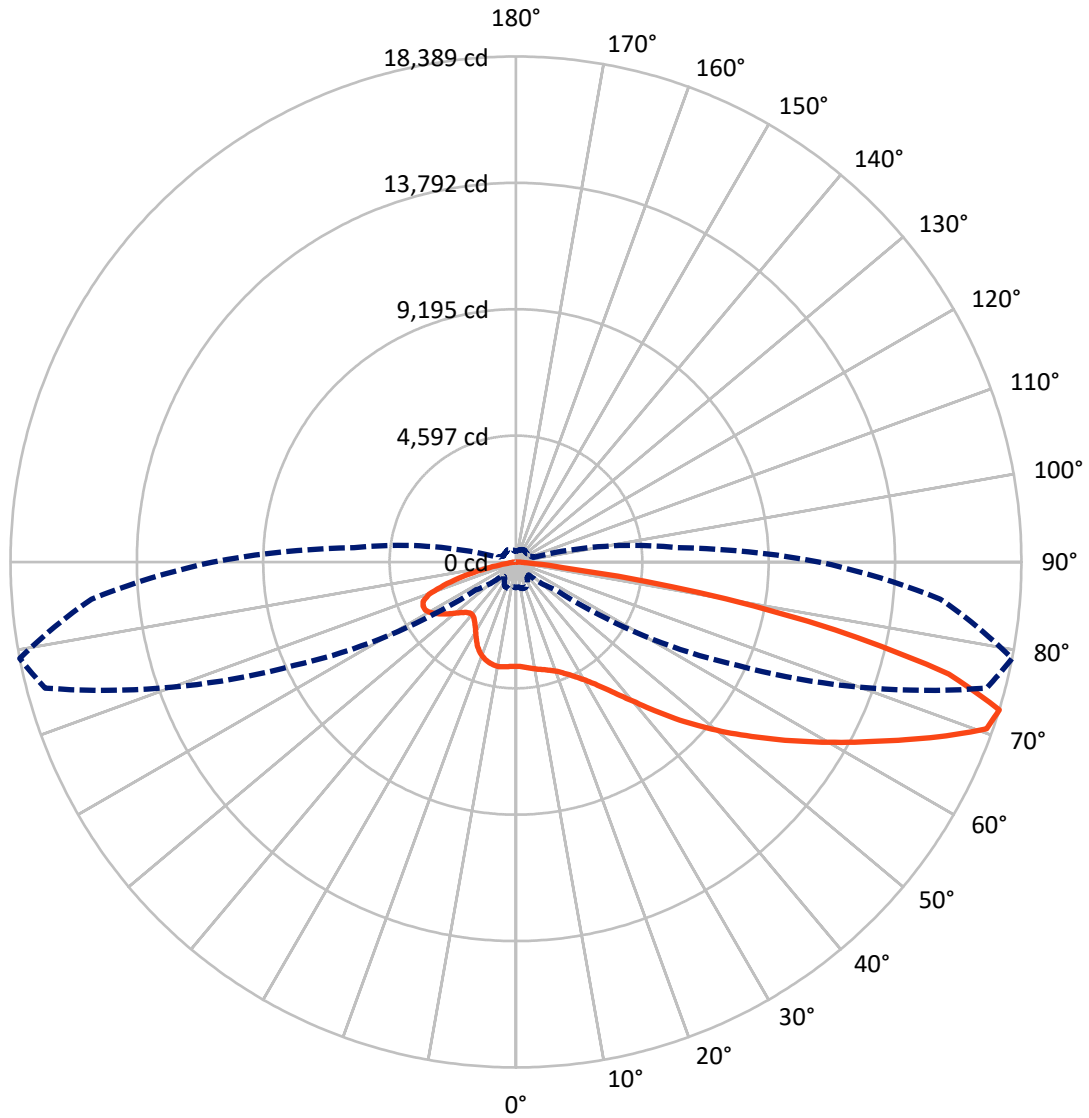
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4160.1	0.0	4160.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14744.9	0.0	14744.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	18905.0	0.0	18905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.8
10°-20°	900.6	4.8
20°-30°	1453.3	7.7
30°-40°	2181.1	11.5
40°-50°	3094.1	16.4
50°-60°	3907.4	20.7
60°-70°	3968.5	21.0
70°-80°	2704.7	14.3
80°-90°	350.9	1.9
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°	18905.0	100.0
0°-180°	18905.0	100.0

Coefficient of Utilization



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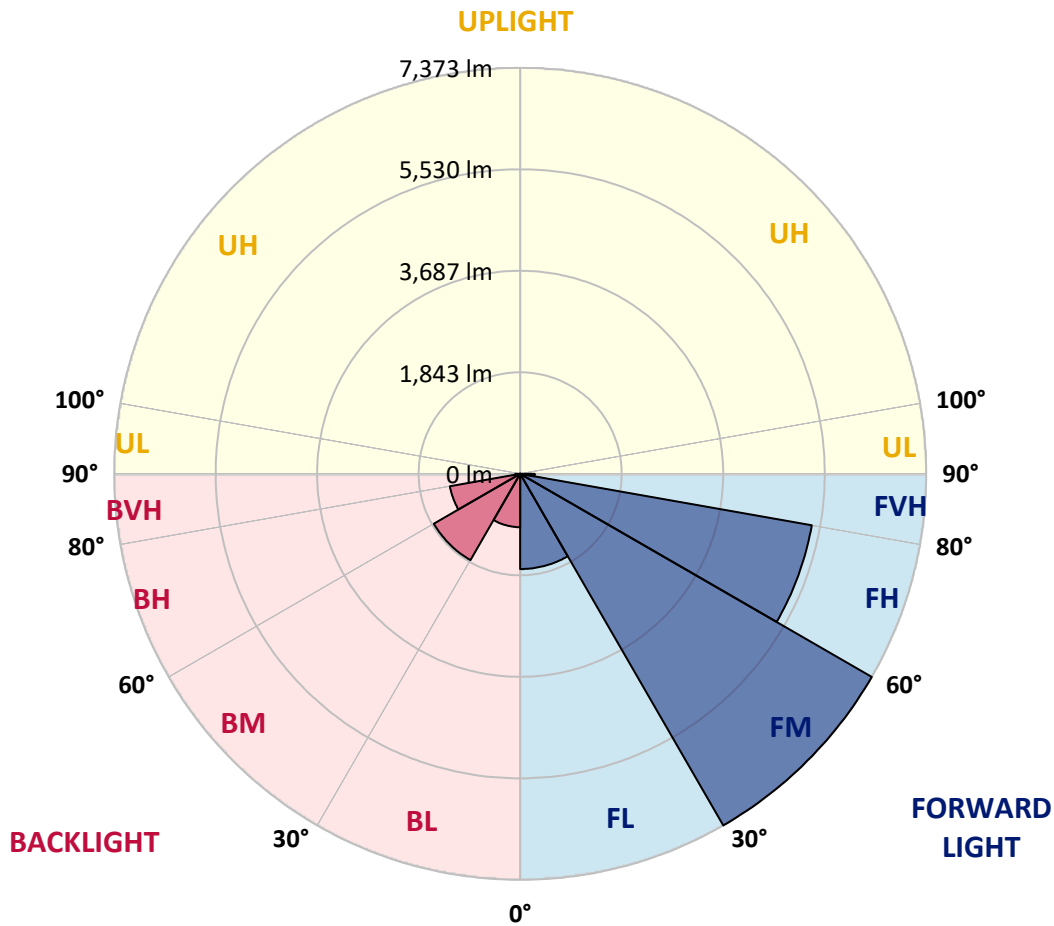
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.3	9.1			
FM (30°-60°)	7373.3	39.0			
FH (60°-80°)	5377.8	28.4			G3/7500
FVH (80°-90°)	264.3	1.4			G3/500
BL (0°-30°)	969.0	5.1	B2/1000		
BM (30°-60°)	1809.2	9.6	B2/2500		
BH (60°-80°)	1295.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	86.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795
2.5°	3797	3779	3790	3786	3791	3797	3799	3802	3812	3811
5°	3789	3771	3786	3781	3794	3808	3820	3831	3847	3854
7.5°	3772	3760	3775	3790	3814	3835	3852	3877	3900	3904
10°	3673	3664	3699	3738	3804	3861	3898	3927	3952	3956
12.5°	3570	3559	3598	3651	3758	3861	3939	3977	3999	4012
15°	3553	3544	3566	3612	3701	3834	3967	4037	4056	4071
17.5°	3635	3618	3627	3643	3695	3809	3989	4105	4134	4150
20°	3825	3801	3787	3755	3746	3813	3987	4187	4225	4245
22.5°	4078	4062	4032	3951	3863	3862	4025	4292	4363	4382
25°	4384	4360	4322	4212	4043	3959	4089	4426	4545	4550
27.5°	4736	4700	4648	4503	4275	4111	4187	4580	4754	4752
30°	5107	5071	5016	4840	4553	4316	4323	4746	5002	4991
32.5°	5378	5351	5340	5204	4873	4558	4479	4930	5308	5298
35°	5586	5551	5564	5495	5222	4829	4670	5149	5680	5679
37.5°	5792	5761	5772	5726	5545	5173	4903	5417	6141	6163
40°	5980	5947	5991	5948	5796	5539	5168	5720	6675	6717
42.5°	6093	6067	6140	6141	6014	5848	5459	6054	7293	7387
45°	6132	6123	6233	6256	6207	6027	5721	6418	7959	8127
47.5°	6090	6073	6225	6310	6349	6111	5938	6812	8639	8885
50°	5878	5845	6071	6250	6389	6166	6157	7267	9412	9681
52.5°	5497	5472	5729	6040	6301	6193	6403	7764	10146	10494
55°	5010	4977	5260	5666	6082	6184	6649	8320	11012	11365
57.5°	4238	4172	4530	5010	5725	6173	6905	8873	11892	12315
60°	3112	3014	3453	4022	5027	6066	7222	9493	12948	13329
62.5°	1812	1755	2042	2573	3789	5436	7400	10214	13986	14386
65°	1407	1391	1416	1457	2109	4070	6851	10917	15306	15586
67.5°	1287	1275	1286	1209	1070	2267	5420	11095	16720	16890
70°	1144	1130	1166	1100	842	1031	3502	10449	17845	18164
72.5°	932	916	1000	970	709	662	1759	8914	17727	18389
75°	716	707	807	832	578	521	844	6626	15600	16267
77.5°	556	549	600	691	466	404	519	4203	11756	11873
80°	417	397	444	535	363	295	352	2451	7431	6736
82.5°	261	251	290	357	256	203	229	1354	2978	1754
85°	149	145	158	204	139	117	131	598	544	374
87.5°	60	58	72	91	51	43	46	144	120	111
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°
3795	0°	3795	3795	3795	3795	3795	3795	3795	3795	3795	3795
3810	2.5°	3806	3806	3792	3770	3745	3729	3703	3696	3669	3661
3844	5°	3852	3844	3801	3739	3654	3576	3490	3436	3360	3333
3911	7.5°	3910	3888	3814	3678	3500	3325	3143	3005	2873	2826
3966	10°	3963	3932	3806	3568	3260	2957	2667	2464	2310	2247
4027	12.5°	4016	3959	3753	3385	2919	2508	2199	2041	1946	1870
4077	15°	4066	3986	3671	3140	2545	2128	1900	1774	1698	1648
4150	17.5°	4124	4009	3548	2829	2189	1865	1679	1603	1588	1582
4250	20°	4205	4030	3386	2481	1927	1655	1559	1552	1551	1548
4370	22.5°	4292	4055	3172	2165	1704	1524	1507	1493	1484	1483
4515	25°	4395	4063	2904	1906	1514	1462	1442	1421	1415	1415
4680	27.5°	4495	4036	2592	1681	1407	1405	1379	1372	1371	1374
4868	30°	4595	3985	2282	1473	1345	1345	1336	1341	1345	1355
5126	32.5°	4730	3931	2023	1319	1291	1281	1290	1300	1304	1317
5465	35°	4928	3893	1817	1235	1235	1222	1227	1225	1216	1210
5875	37.5°	5190	3891	1647	1196	1188	1186	1187	1174	1139	1097
6371	40°	5505	3945	1516	1169	1163	1175	1169	1134	1038	965
6981	42.5°	5928	4099	1432	1136	1154	1169	1145	1024	959	910
7676	45°	6426	4349	1389	1101	1137	1155	1039	986	934	875
8434	47.5°	6990	4664	1379	1068	1099	1110	994	970	911	847
9196	50°	7604	5037	1406	1029	1044	1006	979	957	896	833
9977	52.5°	8239	5448	1460	976	989	947	973	954	887	802
10784	55°	8863	5862	1512	914	933	894	956	942	846	750
11645	57.5°	9497	6274	1563	859	879	843	929	910	800	702
12585	60°	10156	6674	1587	806	820	796	888	855	748	653
13509	62.5°	10773	7007	1548	753	762	752	834	790	696	598
14472	65°	11392	7205	1428	701	703	698	758	720	635	550
15315	67.5°	11953	7316	1237	645	640	638	687	644	576	502
15956	70°	12072	7034	945	579	579	574	609	565	511	451
15497	72.5°	11026	5917	671	504	512	502	531	494	445	405
13356	75°	8891	4339	488	427	441	424	451	425	383	382
9204	77.5°	6109	2683	354	352	362	340	371	357	319	302
4006	80°	2607	1070	258	272	272	252	288	292	259	251
773	82.5°	519	304	181	187	176	170	204	226	312	347
233	85°	156	112	109	102	90	91	120	227	280	160
77	87.5°	43	28	29	23	19	25	41	172	94	40
0	90°	0	0	0	0	0	0	0	0	0	0

(END O

<u>180°</u>
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