

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: P949203

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
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-HSS  
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 WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

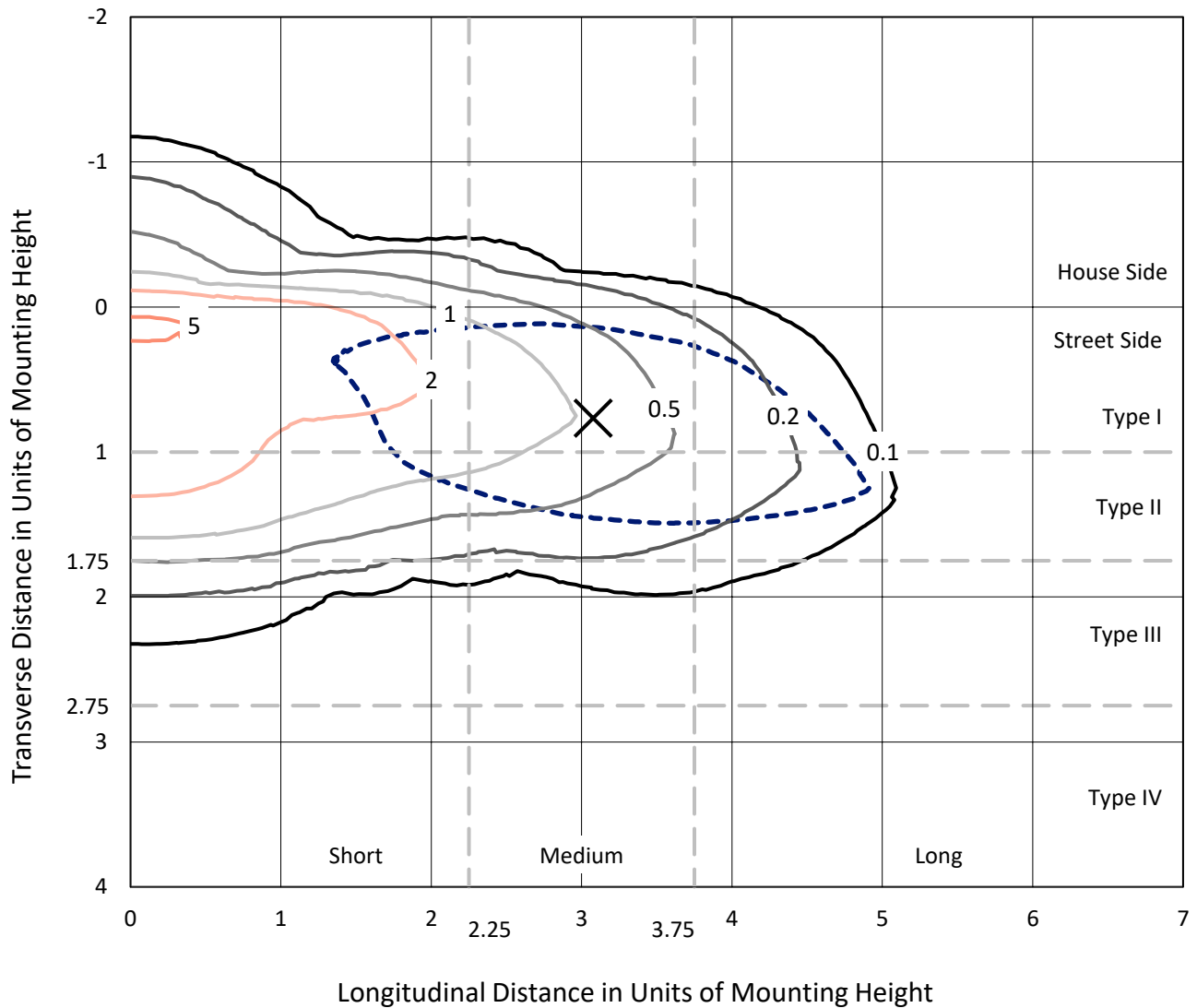
Lumens per Lamp: N/A  
Luminaire Lumens: 15415.9 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

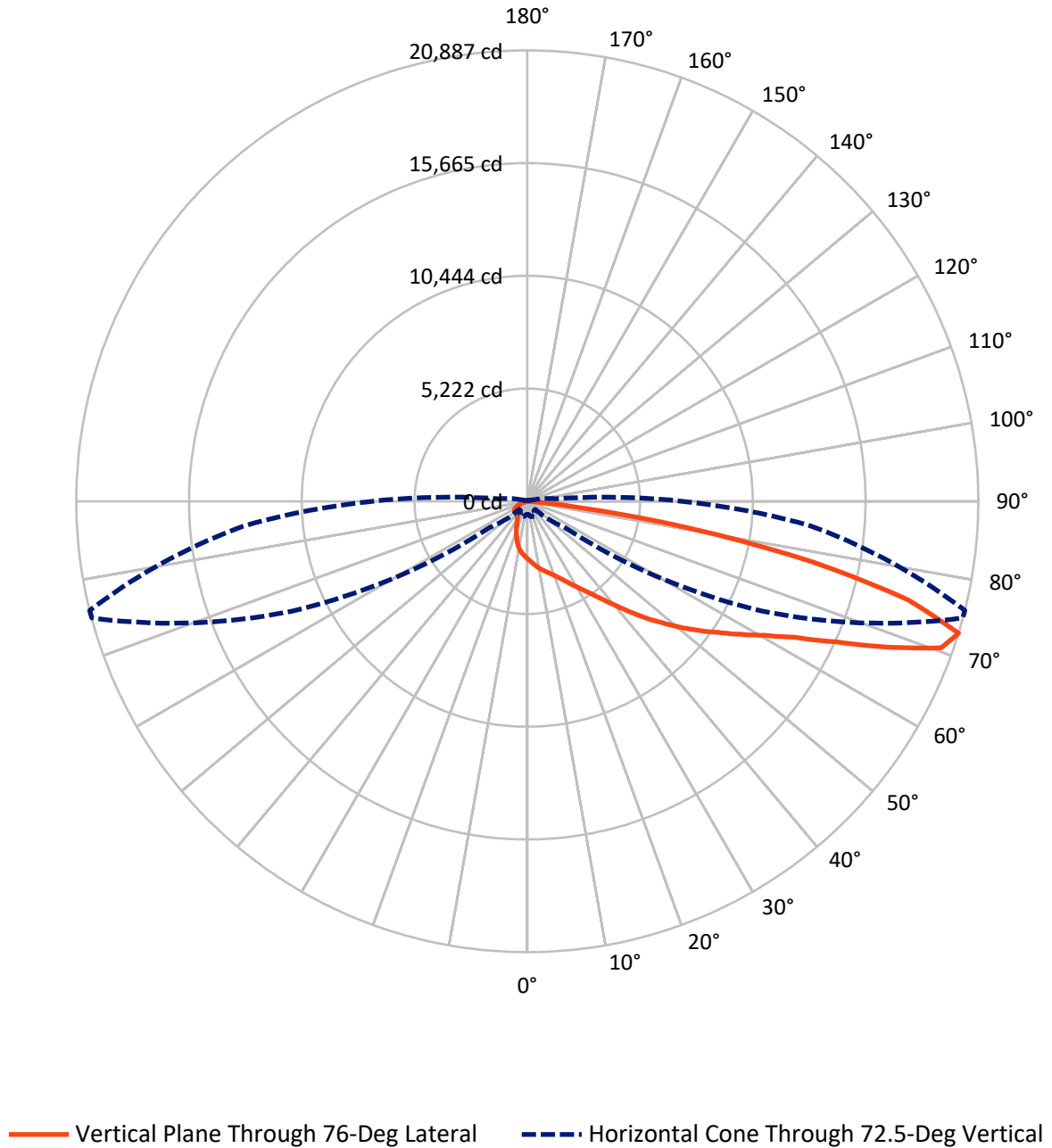
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1577.8	0.0	1577.8
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	13838.1	0.0	13838.1
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	15415.9	0.0	15415.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.3	1.6
10°-20°	649.7	4.2
20°-30°	1028.2	6.7
30°-40°	1590.8	10.3
40°-50°	2416.2	15.7
50°-60°	3331.0	21.6
60°-70°	3519.0	22.8
70°-80°	2414.1	15.7
80°-90°	224.7	1.5
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°	15415.9	100.0
0°-180°	15415.9	100.0

**Coefficient of Utilization**



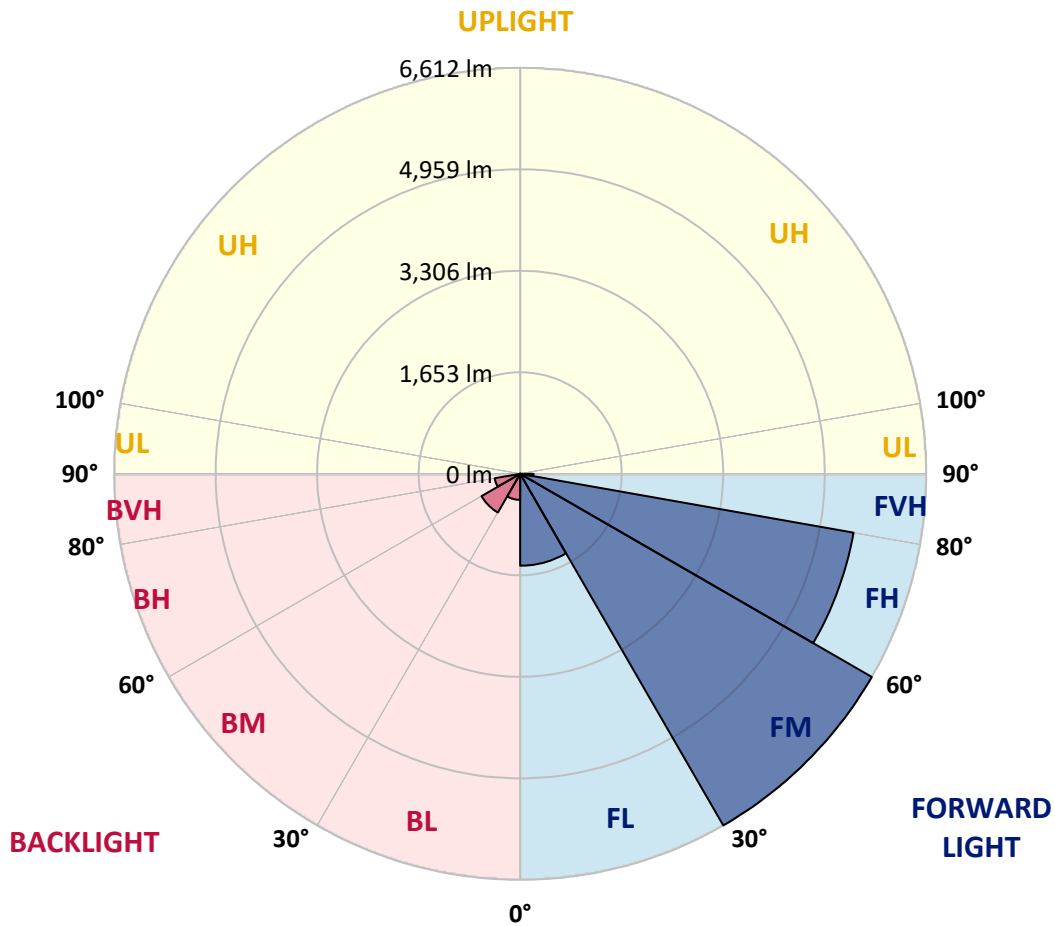
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.1	9.7			
FM (30°-60°)	6611.6	42.9			
FH (60°-80°)	5511.9	35.8			G3/7500
FVH (80°-90°)	218.6	1.4			G2/225
BL (0°-30°)	424.1	2.8	B1/500		
BM (30°-60°)	726.4	4.7	B1/1000		
BH (60°-80°)	421.2	2.7	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	2664	2664	2664	2664	2664	2664	2664	2664	2664	2664
2.5°	3097	3056	3064	3023	3004	2958	2910	2847	2777	2777
5°	3423	3397	3397	3349	3312	3240	3154	3043	2911	2898
7.5°	3623	3607	3617	3589	3559	3484	3382	3237	3050	3034
10°	3662	3661	3689	3697	3717	3679	3588	3421	3187	3164
12.5°	3511	3492	3561	3642	3756	3807	3760	3589	3312	3280
15°	3263	3267	3333	3458	3648	3830	3891	3753	3439	3401
17.5°	3121	3106	3163	3275	3485	3742	3952	3906	3574	3531
20°	3104	3103	3116	3167	3327	3616	3945	4055	3733	3683
22.5°	3222	3220	3209	3199	3243	3493	3915	4197	3923	3869
25°	3403	3400	3383	3322	3279	3427	3887	4329	4148	4088
27.5°	3624	3622	3591	3499	3388	3433	3873	4465	4408	4349
30°	3895	3891	3827	3697	3552	3528	3892	4618	4679	4634
32.5°	4235	4224	4140	3944	3741	3655	3928	4775	5000	4958
35°	4498	4481	4432	4259	3960	3811	4012	4961	5386	5349
37.5°	4724	4707	4667	4525	4274	4010	4147	5209	5842	5824
40°	4968	4940	4921	4769	4542	4297	4340	5499	6367	6369
42.5°	5156	5145	5147	5030	4801	4637	4596	5826	6996	7015
45°	5317	5308	5345	5263	5062	4860	4896	6196	7684	7723
47.5°	5441	5451	5504	5451	5333	5017	5162	6595	8407	8412
50°	5565	5569	5657	5631	5583	5216	5407	7041	9169	9178
52.5°	5604	5598	5738	5802	5804	5462	5724	7527	9916	9945
55°	5404	5421	5647	5907	6010	5802	6152	8142	10712	10724
57.5°	4426	4520	5020	5623	6143	6289	6767	8861	11631	11620
60°	2686	2798	3396	4716	5709	6778	7673	9975	12635	12604
62.5°	1502	1536	1727	2823	4342	6467	8558	11406	13983	13878
65°	1107	1118	1163	1383	2134	4974	8364	13117	15877	15690
67.5°	962	973	1017	1047	953	2613	6891	14066	18282	18037
70°	810	816	887	907	682	994	4427	13773	20508	20333
72.5°	604	628	731	779	547	528	2084	12042	20885	20887
75°	410	432	550	641	422	370	841	8992	18186	18186
77.5°	280	298	383	503	320	254	436	5707	13047	13506
80°	124	135	247	365	243	164	247	3125	7890	7793
82.5°	61	70	158	228	157	101	130	1486	2557	2430
85°	12	16	85	97	73	45	49	457	308	352
87.5°	0	0	26	18	8	10	10	41	24	28
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°
2664	0°	2664	2664	2664	2664	2664	2664	2664	2664	2664	2664
2709	2.5°	2673	2636	2555	2475	2393	2318	2266	2214	2182	2168
2769	5°	2694	2619	2449	2271	2095	1923	1794	1673	1635	1572
2840	7.5°	2727	2605	2337	2037	1751	1499	1317	1172	1114	1058
2901	10°	2749	2579	2189	1788	1401	1118	944	839	801	767
2958	12.5°	2758	2531	2019	1509	1090	852	748	699	686	674
3012	15°	2766	2484	1829	1240	861	713	672	656	647	639
3067	17.5°	2773	2424	1612	1008	727	657	637	620	613	604
3146	20°	2797	2366	1418	832	654	617	595	577	571	565
3258	22.5°	2842	2319	1230	713	610	576	548	528	524	520
3394	25°	2896	2261	1053	636	567	529	498	481	477	478
3551	27.5°	2965	2197	901	587	529	485	450	437	439	443
3732	30°	3041	2138	782	553	495	446	411	402	409	415
3974	32.5°	3154	2086	699	526	465	414	386	375	383	391
4283	35°	3308	2060	652	503	439	389	361	353	361	363
4660	37.5°	3497	2058	632	484	415	368	337	334	340	341
5113	40°	3741	2071	617	470	390	344	315	312	314	321
5658	42.5°	4050	2125	596	452	363	320	297	290	289	297
6268	45°	4438	2244	568	423	339	300	277	269	266	268
6898	47.5°	4861	2390	540	396	322	284	261	251	246	246
7487	50°	5271	2555	521	368	310	269	244	234	226	224
8093	52.5°	5677	2717	506	340	296	250	228	217	208	204
8693	55°	6047	2871	480	313	278	230	212	201	190	183
9301	57.5°	6402	2999	432	285	250	211	195	183	170	161
9916	60°	6725	3065	372	255	222	191	176	165	148	133
10521	62.5°	6971	3039	307	221	193	173	154	143	123	105
11246	65°	7223	2897	245	185	169	149	129	118	95	76
12227	67.5°	7550	2594	193	154	146	118	101	94	78	60
13280	70°	7760	2015	150	125	120	86	78	77	62	46
13209	72.5°	7184	1321	115	95	86	56	60	60	45	31
11579	75°	5997	773	83	68	49	36	41	41	28	15
8253	77.5°	4283	412	55	42	25	16	22	21	9	1
3235	80°	1638	142	26	17	7	3	2	1	1	0
505	82.5°	250	37	5	4	0	0	0	0	0	0
107	85°	45	5	0	0	0	0	0	0	0	0
28	87.5°	10	0	0	0	0	0	0	0	0	0
0	90°	0	0	0	0	0	0	0	0	0	0

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<u>180°</u>
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