

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: P949222

Luminaire Tested: **GALN-SB4A-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-750-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19344.1 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

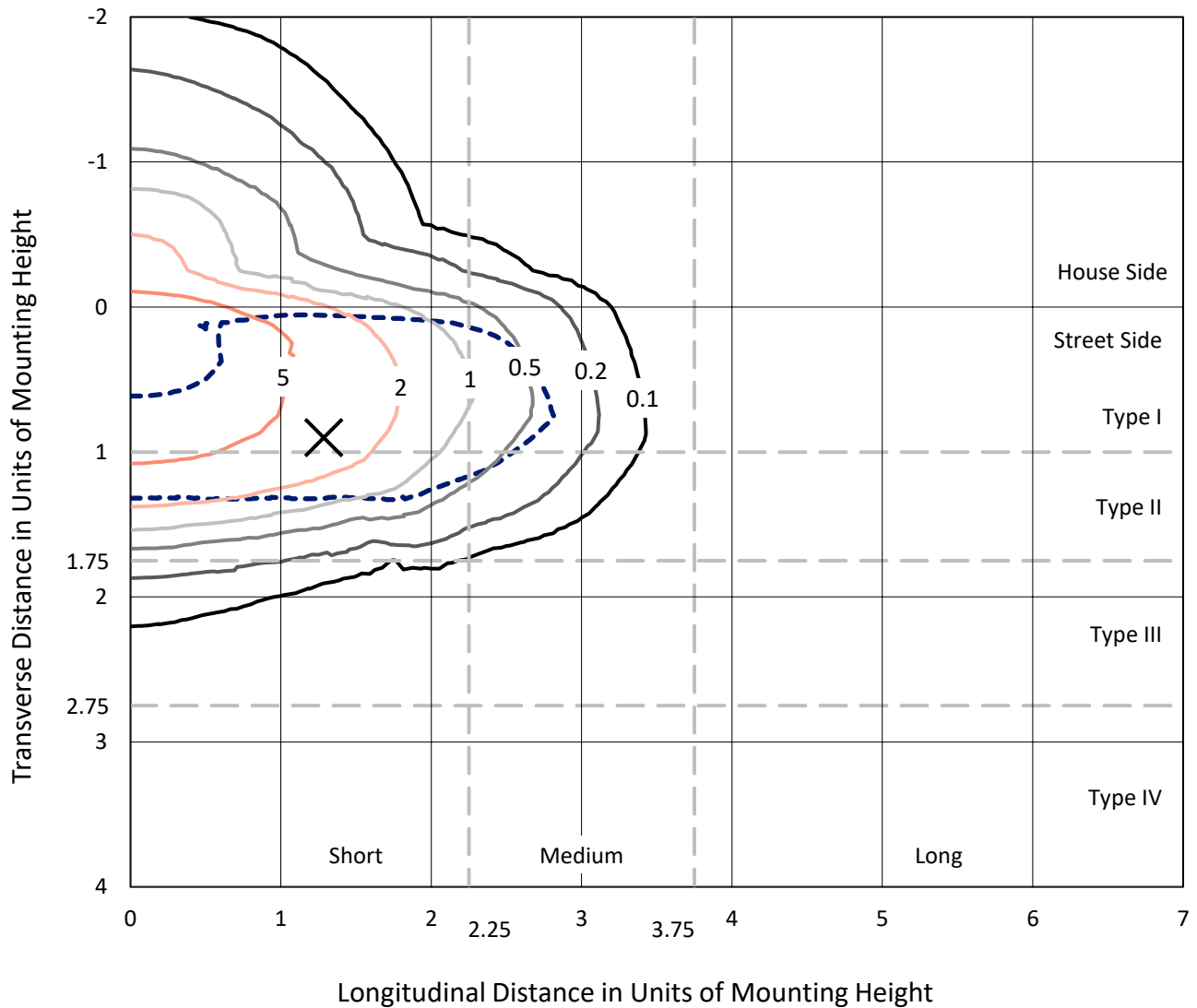
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

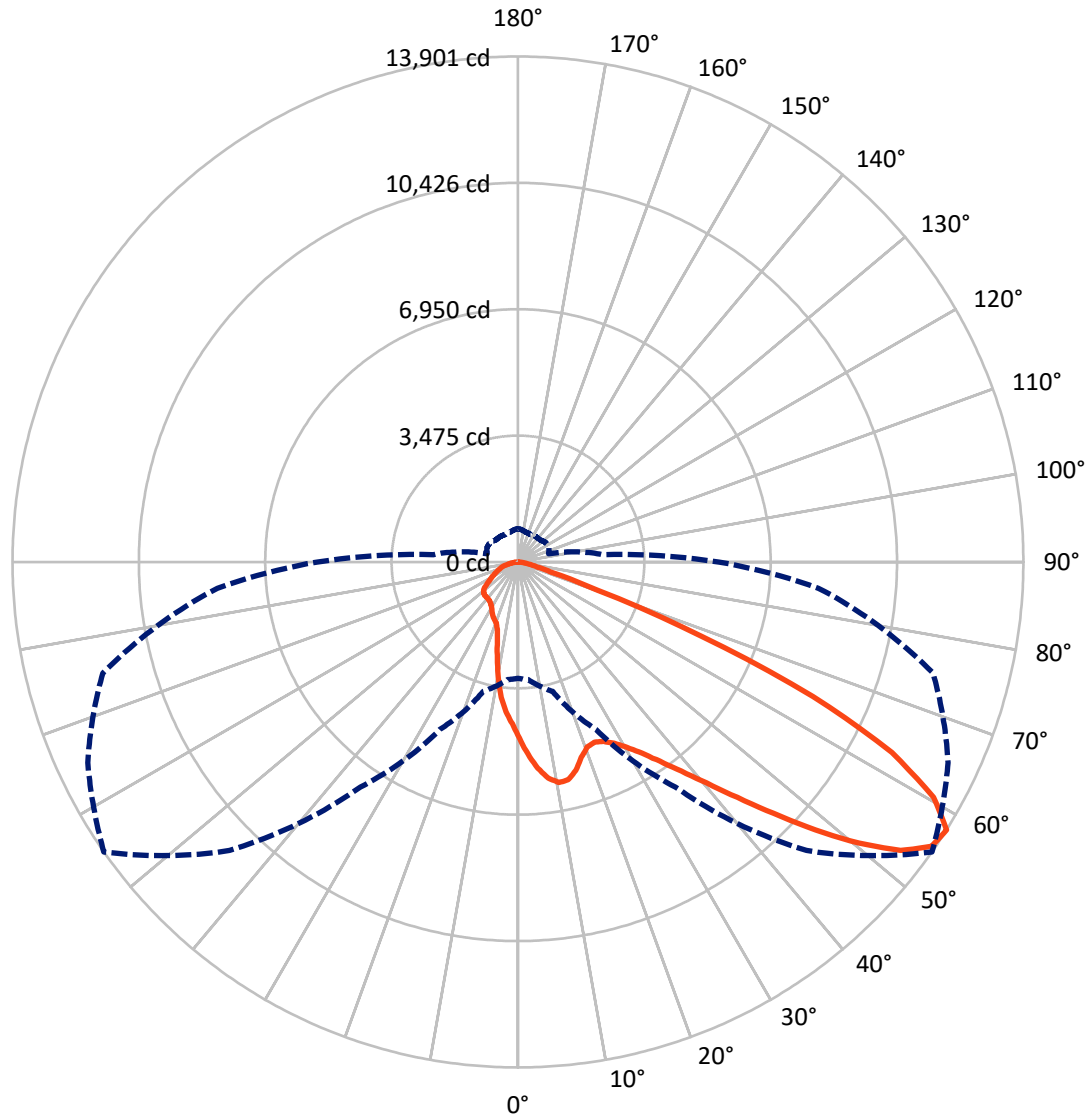
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3500.2	0.0	3500.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15843.8	0.0	15843.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	19344.1	0.0	19344.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	2.3
10°-20°	1135.2	5.9
20°-30°	1811.5	9.4
30°-40°	2868.1	14.8
40°-50°	4389.9	22.7
50°-60°	4702.0	24.3
60°-70°	2958.1	15.3
70°-80°	874.8	4.5
80°-90°	154.7	0.8
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°	19344.1	100.0
0°-180°	19344.1	100.0

Coefficient of Utilization



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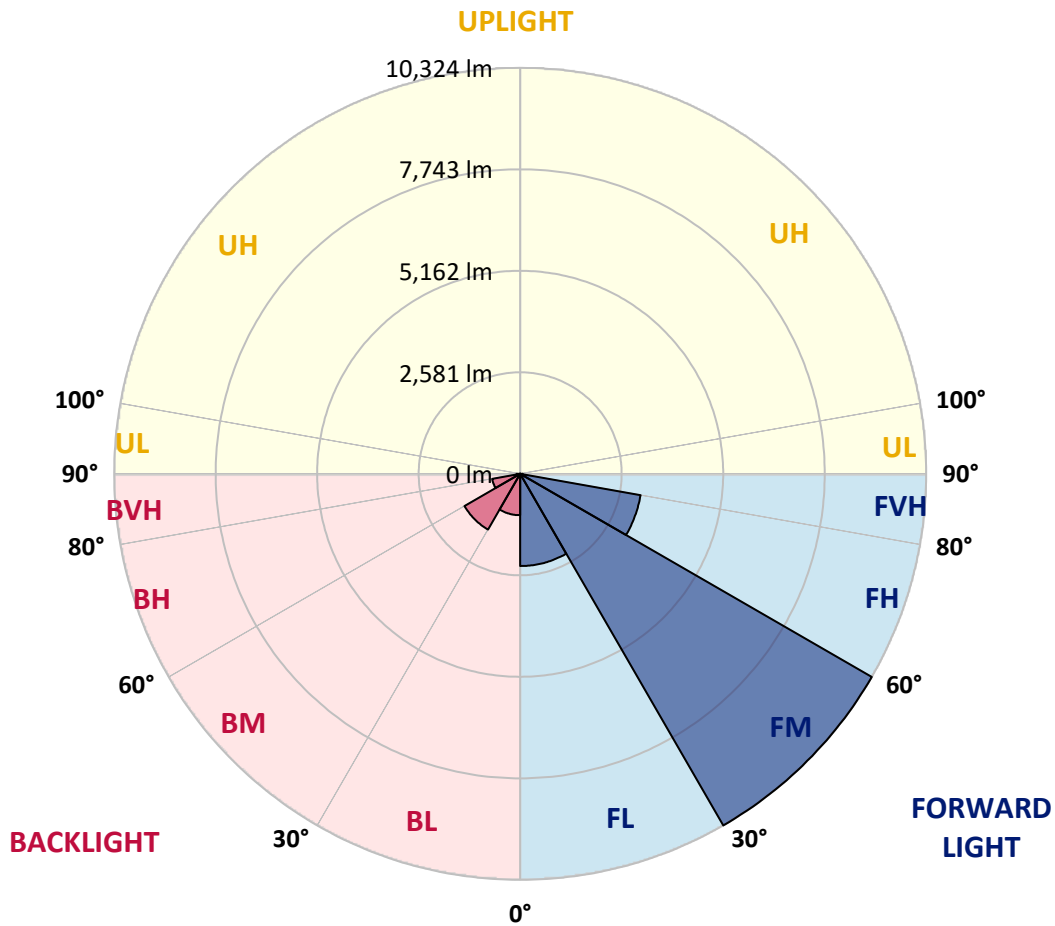
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.5	12.1			
FM (30°-60°)	10324.1	53.4			
FH (60°-80°)	3109.9	16.1			G2/5000
FVH (80°-90°)	65.3	0.3			G1/100
BL (0°-30°)	1052.0	5.4	B3/2500		
BM (30°-60°)	1636.0	8.5	B2/2500		
BH (60°-80°)	722.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	89.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4847	4847	4847	4847	4847	4847	4847	4847	4847	4847
2.5°	5561	5557	5579	5504	5453	5384	5293	5177	5052	4920
5°	6062	6027	6050	5994	5938	5834	5699	5510	5279	5016
7.5°	5983	5959	6018	6068	6110	6097	5998	5800	5502	5120
10°	5346	5319	5402	5575	5829	6050	6170	6047	5730	5234
12.5°	4784	4771	4826	4966	5248	5672	6148	6263	5967	5369
15°	4544	4528	4563	4634	4814	5209	5948	6411	6200	5525
17.5°	4491	4473	4488	4525	4641	4942	5646	6484	6443	5699
20°	4589	4574	4576	4574	4655	4894	5436	6456	6655	5859
22.5°	4826	4801	4802	4749	4793	4978	5381	6381	6844	5999
25°	5212	5167	5176	5041	5029	5166	5467	6323	7032	6111
27.5°	5740	5689	5662	5461	5365	5433	5642	6343	7210	6208
30°	6400	6338	6283	5998	5824	5799	5914	6475	7420	6310
32.5°	7209	7137	7037	6659	6414	6283	6266	6710	7666	6440
35°	8172	8078	7936	7447	7137	6869	6730	7049	8003	6636
37.5°	9164	9058	8928	8346	7965	7570	7296	7509	8452	6902
40°	10079	9960	9839	9321	8912	8436	7989	8091	9001	7220
42.5°	10619	10531	10485	10205	9889	9406	8851	8781	9618	7586
45°	10595	10559	10701	10817	10742	10474	9861	9544	10237	7903
47.5°	10029	10053	10370	11022	11309	11449	11011	10293	10775	8140
50°	8489	8509	9243	10649	11455	12244	12152	11024	11192	8285
52.5°	7270	7283	7598	9543	10973	12644	13180	11713	11497	8325
55°	5476	5521	5874	7487	9719	12327	13806	12423	11690	8329
57.5°	3199	3248	3684	5082	7554	11222	13901	13053	11821	8297
60°	1567	1588	1778	2671	4658	9093	13137	13358	11894	8280
62.5°	1056	1053	1061	1318	2295	5842	11545	12824	11855	8215
65°	908	897	867	925	1189	2672	8920	11230	11558	8052
67.5°	785	786	787	769	849	1233	5451	8846	10492	7280
70°	650	659	663	663	692	809	2327	6063	8276	5708
72.5°	592	573	575	565	565	616	937	3437	5214	3211
75°	483	495	497	490	467	470	556	1442	2231	1332
77.5°	417	417	421	416	398	352	371	559	759	546
80°	335	334	351	361	333	260	237	309	337	240
82.5°	163	173	241	275	253	188	145	192	180	106
85°	95	90	108	153	145	104	70	100	94	54
87.5°	30	28	22	52	42	29	19	29	26	12
90°	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°
4847	0°	4847	4847	4847	4847	4847	4847	4847	4847	4847	4847
4863	2.5°	4792	4674	4557	4450	4385	4343	4301	4254	4236	4209
4876	5°	4744	4516	4313	4138	3979	3854	3728	3626	3580	3611
4917	7.5°	4716	4386	4073	3752	3443	3196	2981	2830	2762	2779
4957	10°	4691	4239	3762	3255	2811	2505	2285	2170	2127	2136
5011	12.5°	4668	4074	3387	2720	2248	2046	1983	1984	1992	1998
5097	15°	4664	3875	2968	2252	1944	1931	1999	2042	2065	2072
5169	17.5°	4658	3637	2541	1933	1870	1958	2021	2049	2067	2068
5239	20°	4634	3335	2147	1781	1854	1930	1969	1991	2006	2011
5292	22.5°	4560	2999	1840	1713	1790	1851	1897	1922	1931	1937
5302	25°	4427	2623	1628	1648	1701	1778	1815	1820	1817	1826
5277	27.5°	4253	2220	1496	1560	1628	1694	1714	1711	1705	1715
5234	30°	4043	1858	1412	1461	1554	1614	1632	1625	1613	1624
5212	32.5°	3821	1562	1343	1392	1493	1552	1570	1563	1554	1563
5237	35°	3614	1355	1279	1346	1445	1503	1526	1527	1527	1538
5303	37.5°	3424	1234	1226	1317	1412	1464	1497	1499	1456	1459
5415	40°	3248	1183	1202	1298	1380	1430	1432	1320	1241	1239
5543	42.5°	3104	1173	1209	1296	1357	1359	1218	1131	1109	1110
5661	45°	2969	1170	1225	1296	1323	1174	1079	1056	1058	1066
5714	47.5°	2818	1158	1228	1278	1225	1044	1016	1006	1002	1004
5702	50°	2653	1115	1190	1242	1057	988	953	950	955	958
5635	52.5°	2479	1045	1125	1177	980	939	900	907	929	936
5565	55°	2365	963	1039	1047	926	893	860	876	917	930
5523	57.5°	2335	876	941	932	857	853	833	847	899	918
5521	60°	2326	798	845	838	790	809	804	811	829	835
5501	62.5°	2256	736	759	749	730	763	775	760	774	781
5364	65°	2078	686	675	668	676	706	730	700	713	733
4836	67.5°	1784	618	588	596	621	637	668	634	645	679
3895	70°	1443	532	505	528	552	585	590	567	593	631
2377	72.5°	1021	445	426	473	481	524	513	502	538	551
1175	75°	708	359	348	384	413	450	442	455	531	537
587	77.5°	448	279	272	295	335	376	389	537	907	943
305	80°	260	208	200	218	253	291	375	659	598	591
137	82.5°	145	143	133	138	169	210	530	464	377	389
55	85°	68	84	72	69	95	246	354	265	176	172
12	87.5°	18	16	16	18	40	212	141	113	67	65
0	90°	0	0	0	0	0	0	0	0	0	0

(END OF RI

