

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: P940796

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14917 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

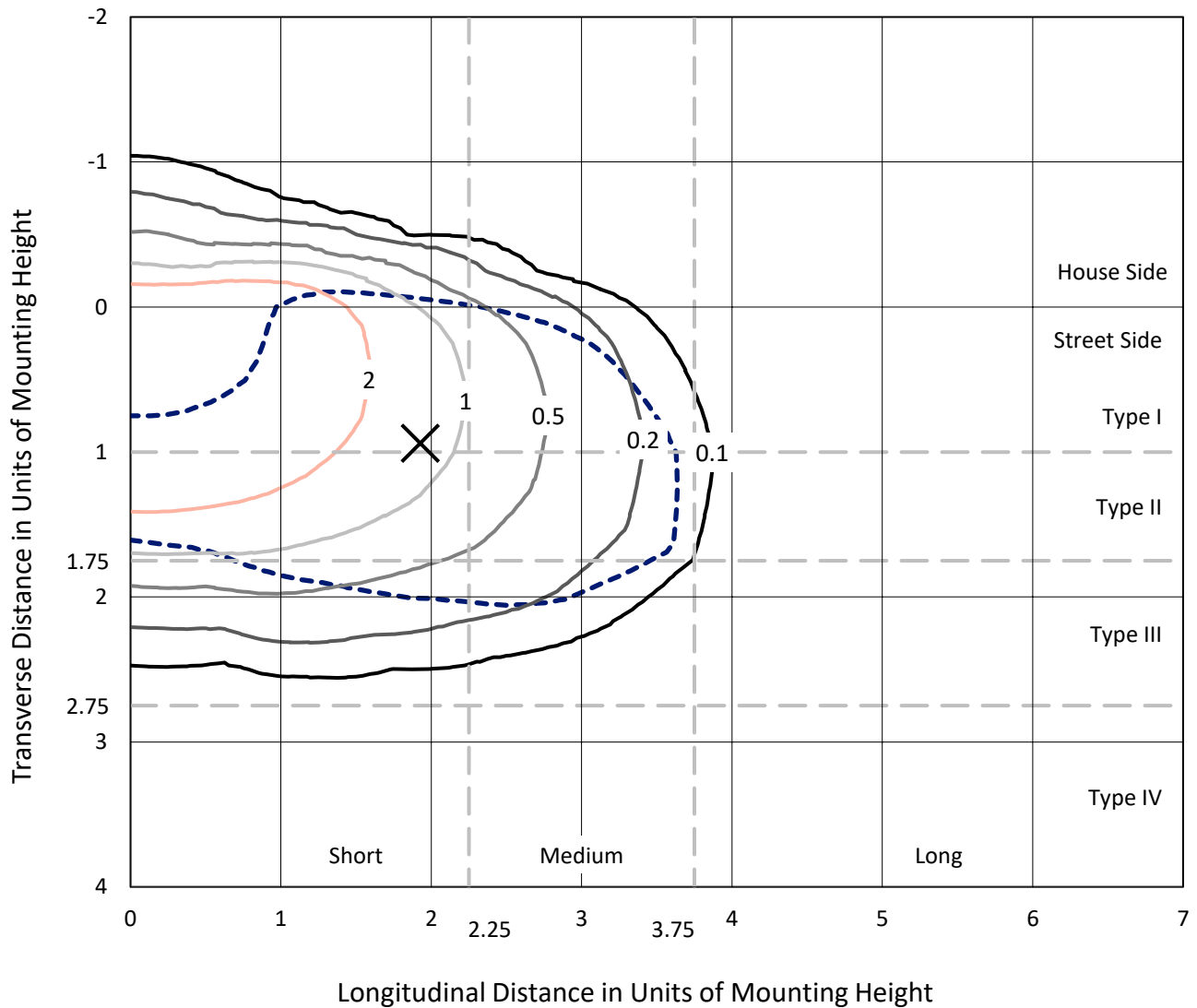
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

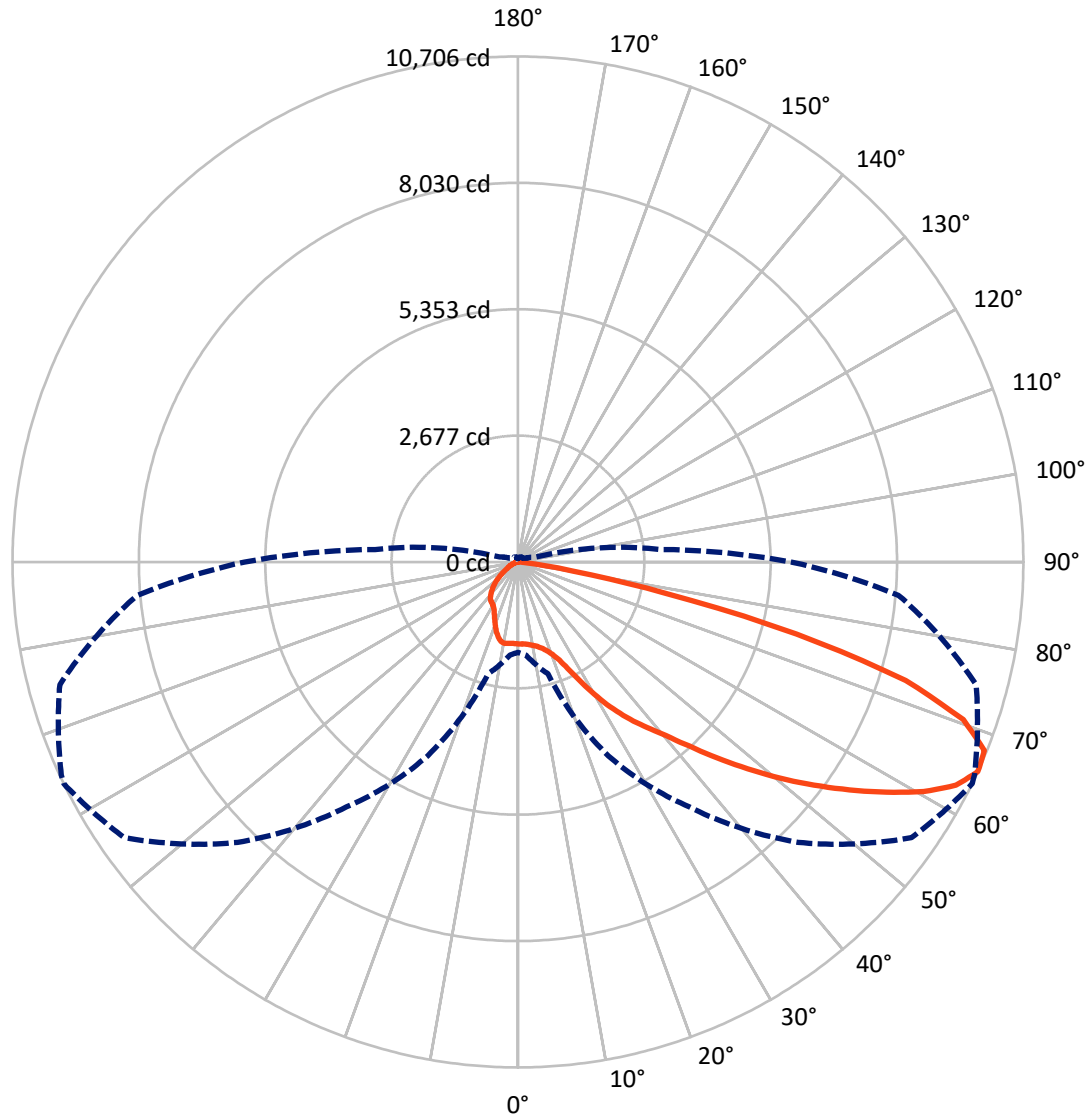
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1994.9	0.0	1994.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12922.1	0.0	12922.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	14917.0	0.0	14917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.1
10°-20°	434.2	2.9
20°-30°	822.7	5.5
30°-40°	1664.7	11.2
40°-50°	2835.9	19.0
50°-60°	3856.6	25.9
60°-70°	3621.6	24.3
70°-80°	1450.9	9.7
80°-90°	70.3	0.5
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°	14917.0	100.0
0°-180°	14917.0	100.0

Coefficient of Utilization



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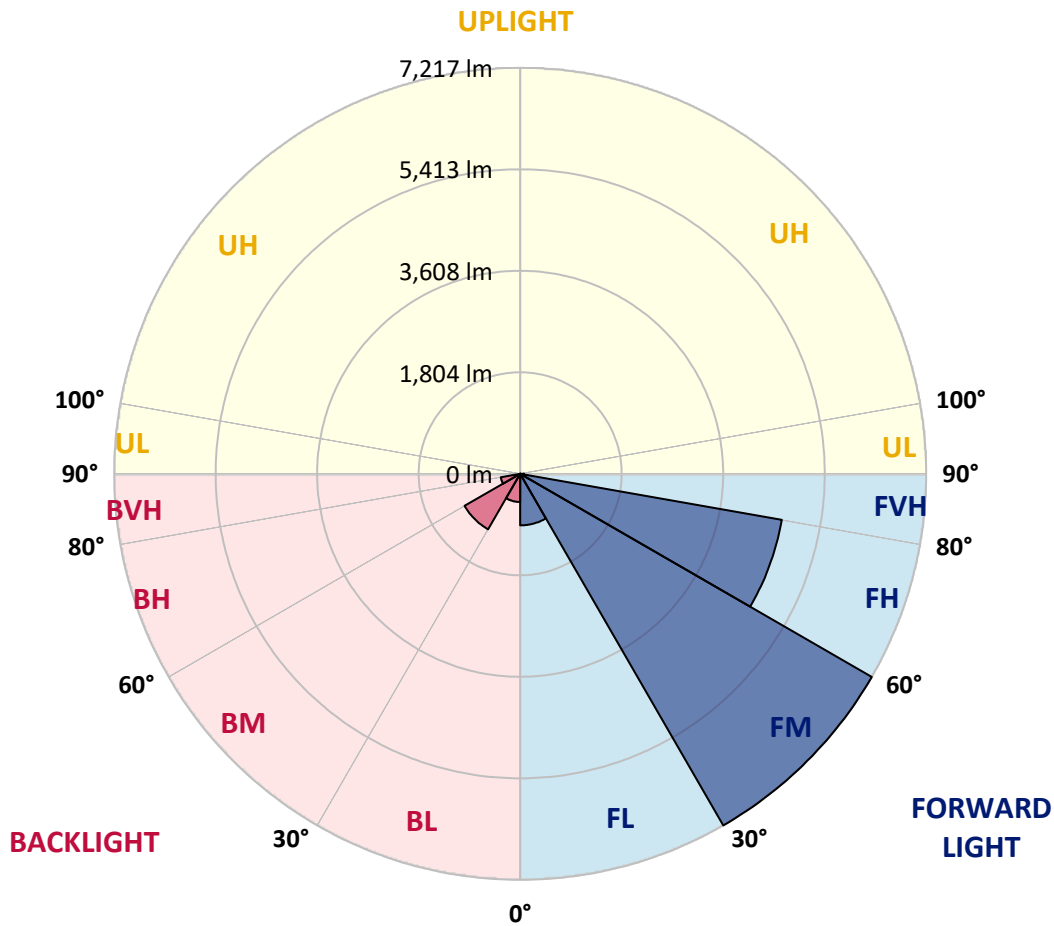
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.1	6.1			
FM (30°-60°)	7216.8	48.4			
FH (60°-80°)	4722.4	31.7			G2/5000
FVH (80°-90°)	66.9	0.4			G1/100
BL (0°-30°)	500.8	3.4	B2/1000		
BM (30°-60°)	1140.4	7.6	B2/2500		
BH (60°-80°)	350.1	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1735	1735	1735	1735	1735	1735	1735	1735	1735	1735
2.5°	1729	1741	1738	1735	1734	1736	1737	1736	1736	1736
5°	1696	1706	1706	1713	1723	1735	1744	1746	1748	1751
7.5°	1633	1641	1647	1670	1695	1727	1754	1768	1770	1781
10°	1590	1600	1610	1634	1670	1718	1764	1798	1803	1829
12.5°	1588	1598	1611	1637	1679	1730	1786	1835	1844	1882
15°	1609	1621	1633	1665	1710	1772	1832	1893	1902	1956
17.5°	1652	1668	1677	1709	1757	1826	1905	1975	1983	2046
20°	1737	1756	1759	1785	1832	1906	2000	2087	2097	2169
22.5°	1913	1940	1916	1929	1971	2045	2147	2257	2271	2353
25°	2223	2261	2199	2177	2195	2272	2400	2539	2555	2621
27.5°	2832	2783	2689	2597	2543	2587	2731	2903	2923	2987
30°	3501	3458	3331	3127	2999	2992	3125	3317	3340	3401
32.5°	4171	4130	3992	3741	3519	3409	3501	3714	3726	3765
35°	4830	4788	4650	4393	4120	3870	3852	4092	4096	4137
37.5°	5493	5458	5311	5059	4790	4445	4278	4450	4455	4495
40°	5966	5981	5880	5685	5454	5077	4756	4831	4801	4868
42.5°	6372	6402	6314	6216	6082	5750	5348	5335	5287	5323
45°	6723	6748	6669	6646	6643	6410	5995	5917	5850	5843
47.5°	6852	6900	6934	7011	7161	7063	6664	6543	6468	6413
50°	6901	6952	7068	7292	7647	7689	7330	7194	7102	7002
52.5°	6835	6926	7082	7459	7974	8191	7969	7850	7745	7582
55°	6446	6537	6856	7457	8137	8543	8573	8520	8402	8145
57.5°	5626	5761	6266	7203	8134	8846	9165	9203	9071	8703
60°	4490	4673	5289	6640	7883	9010	9684	9874	9734	9253
62.5°	3133	3345	3928	5758	7309	8892	10063	10414	10308	9745
65°	1911	1979	2449	4531	6333	8398	10180	10706	10671	10046
67.5°	1273	1330	1465	3107	4916	7411	9900	10655	10665	9997
70°	767	816	904	1807	3186	5866	9033	10005	10063	9342
72.5°	316	349	429	819	1650	3723	7193	8590	8725	7855
75°	179	196	252	411	716	1735	4357	6098	6297	5414
77.5°	119	127	163	266	403	592	1862	3177	3557	2957
80°	80	87	112	178	262	254	593	1177	1448	1016
82.5°	54	55	80	117	166	123	175	366	460	294
85°	31	30	59	68	74	51	53	110	144	124
87.5°	4	6	23	18	10	11	11	19	28	30
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°
1735	0°	1735	1735	1735	1735	1735	1735	1735	1735	1735	1735
1737	2.5°	1737	1736	1733	1730	1723	1719	1721	1719	1718	1719
1750	5°	1750	1747	1739	1729	1715	1698	1687	1671	1656	1647
1785	7.5°	1785	1782	1771	1743	1698	1627	1562	1505	1462	1437
1841	10°	1841	1836	1819	1757	1639	1484	1355	1248	1178	1145
1907	12.5°	1907	1901	1871	1744	1527	1285	1107	988	923	894
1983	15°	1985	1977	1918	1682	1364	1065	902	813	771	745
2080	17.5°	2082	2068	1953	1589	1187	897	776	709	672	647
2207	20°	2208	2185	1981	1478	1024	791	691	635	607	585
2387	22.5°	2384	2351	2015	1358	909	718	628	587	564	539
2638	25°	2602	2563	2057	1247	830	655	582	548	521	492
2967	27.5°	2907	2837	2107	1156	762	601	540	502	471	447
3340	30°	3247	3132	2151	1101	700	551	485	447	418	401
3675	32.5°	3569	3413	2180	1077	644	494	425	384	362	357
4003	35°	3873	3667	2177	1054	594	437	366	324	307	310
4356	37.5°	4223	3938	2156	1018	553	385	315	278	263	264
4785	40°	4630	4251	2143	950	508	337	273	243	232	228
5237	42.5°	5064	4554	2145	873	452	294	244	219	209	206
5740	45°	5500	4843	2148	793	393	261	223	202	196	192
6250	47.5°	5910	5089	2092	707	335	236	206	192	187	182
6762	50°	6292	5253	1957	607	289	216	193	183	178	173
7226	52.5°	6589	5279	1734	504	257	201	185	176	170	165
7601	55°	6721	5116	1417	408	232	188	177	168	161	156
7896	57.5°	6687	4773	1105	328	208	175	167	161	153	145
8135	60°	6520	4314	833	273	186	161	156	151	140	128
8227	62.5°	6231	3737	594	226	162	145	143	139	123	101
8091	65°	5789	3036	400	188	139	127	128	121	100	75
7593	67.5°	5143	2220	256	154	116	106	107	103	85	64
6649	70°	4320	1470	167	117	93	82	88	89	72	52
5103	72.5°	3167	868	117	87	68	57	72	74	58	39
3070	75°	1805	412	88	63	42	40	56	56	40	26
1329	77.5°	758	172	62	41	24	23	38	35	20	12
324	80°	219	77	33	20	10	9	15	11	5	2
123	82.5°	86	34	13	8	4	4	2	0	0	0
70	85°	51	14	6	3	1	0	0	0	0	0
15	87.5°	13	3	2	0	0	0	0	0	0	0
0	90°	0	0	0	0	0	0	0	0	0	0

(END O

<u>180°</u>
1735
1723
1649
1438
1142
891
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581
535
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442
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