

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: P527069

Luminaire Tested: **GALN-SA2A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5425 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

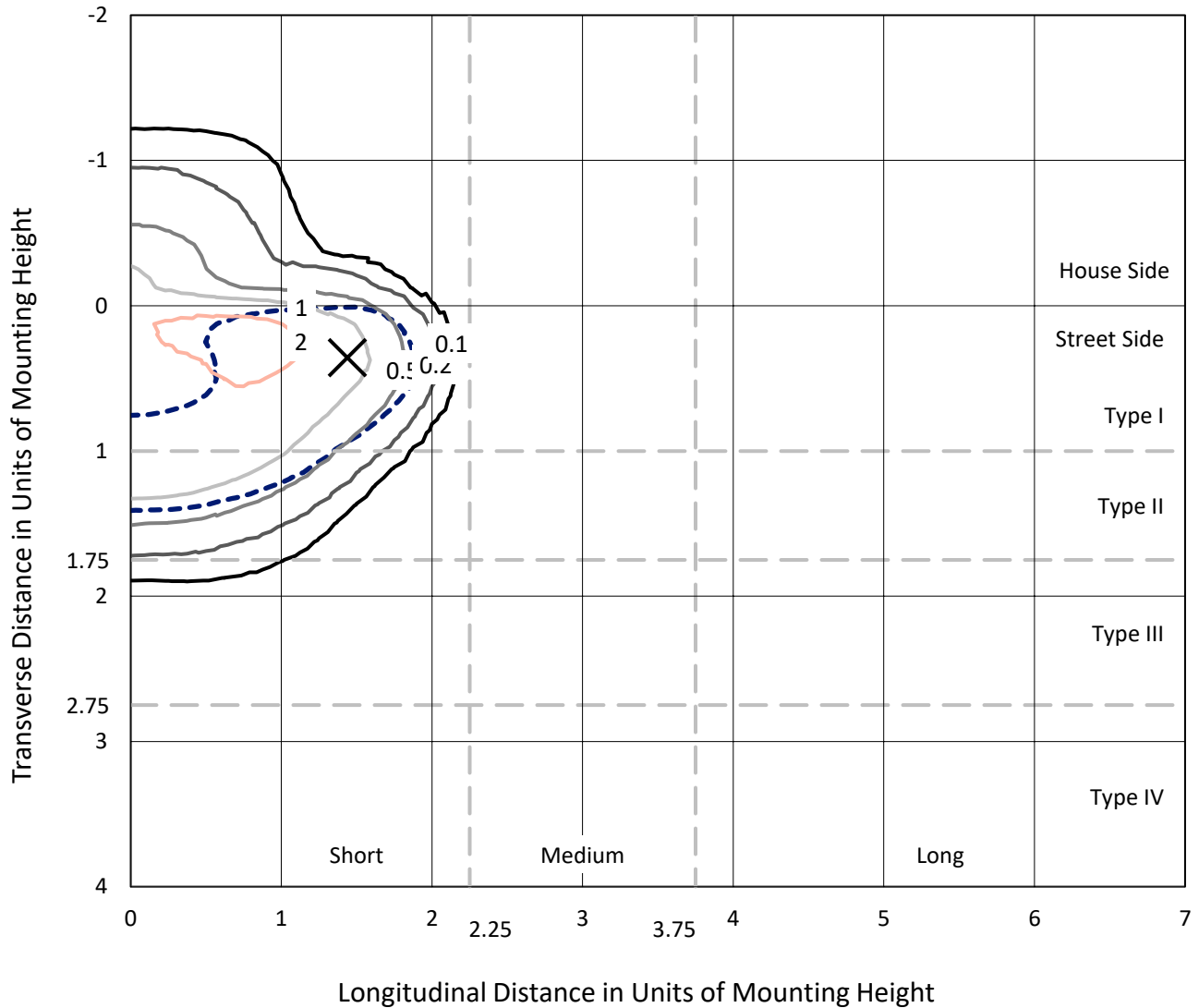
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

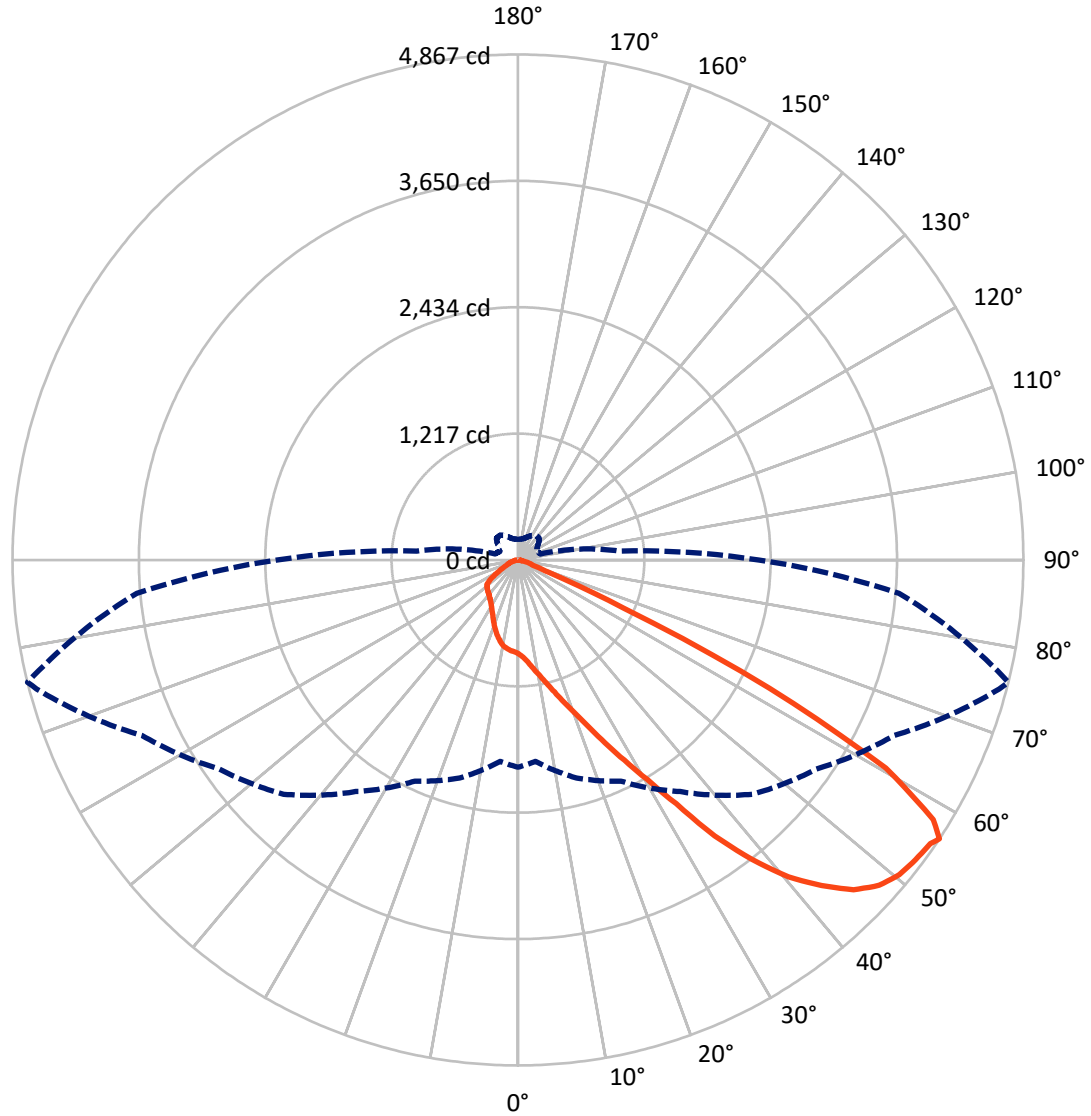
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.2	0.0	852.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4572.8	0.0	4572.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	5425.0	0.0	5425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.7
10°-20°	292.2	5.4
20°-30°	529.9	9.8
30°-40°	913.8	16.8
40°-50°	1484.6	27.4
50°-60°	1564.8	28.8
60°-70°	478.1	8.8
70°-80°	61.3	1.1
80°-90°	9.3	0.2
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°	5425.0	100.0
0°-180°	5425.0	100.0

Coefficient of Utilization

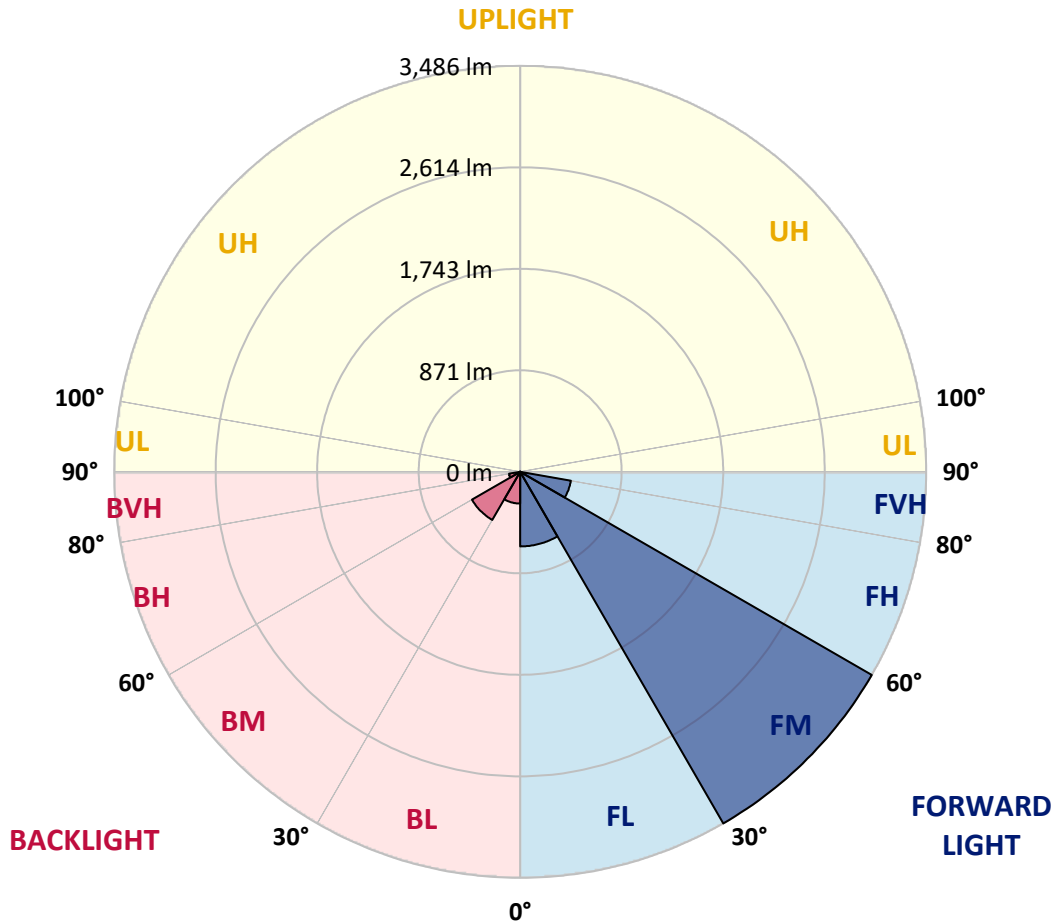


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.5	11.8			
FM (30°-60°)	3485.6	64.2			
FH (60°-80°)	442.2	8.2			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	272.6	5.0	B1/500		
BM (30°-60°)	477.6	8.8	B1/1000		
BH (60°-80°)	97.2	1.8	B0/110		G0/110
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	903	903	903	903	903	903	903	903	903	903	903
2.5°	1040	1016	1017	1015	1012	1001	968	963	941	935	915
5°	1165	1144	1156	1138	1121	1111	1057	1032	997	984	956
7.5°	1243	1233	1229	1230	1214	1189	1165	1110	1063	1053	994
10°	1281	1275	1281	1278	1285	1288	1246	1213	1144	1127	1035
12.5°	1290	1302	1307	1320	1337	1366	1363	1318	1226	1215	1098
15°	1312	1322	1317	1338	1370	1419	1445	1438	1339	1319	1171
17.5°	1332	1314	1331	1373	1405	1480	1543	1572	1462	1439	1238
20°	1359	1354	1351	1372	1429	1529	1654	1707	1600	1576	1334
22.5°	1441	1442	1440	1409	1450	1563	1751	1882	1765	1745	1443
25°	1549	1536	1526	1501	1496	1594	1849	2096	1963	1949	1561
27.5°	1663	1663	1633	1610	1578	1671	1939	2304	2202	2183	1664
30°	1787	1794	1790	1741	1721	1755	2031	2570	2476	2452	1834
32.5°	1970	1955	1972	1931	1872	1902	2176	2808	2832	2798	2057
35°	2212	2203	2192	2125	2055	2079	2381	3101	3279	3262	2282
37.5°	2429	2424	2415	2369	2288	2317	2614	3406	3715	3659	2600
40°	2657	2684	2655	2614	2540	2604	2888	3587	4082	4014	2843
42.5°	2966	2945	2958	2883	2843	2913	3163	3768	4367	4286	3101
45°	3295	3296	3261	3237	3133	3209	3332	3868	4594	4531	3296
47.5°	3506	3505	3543	3581	3474	3399	3447	3963	4711	4682	3367
50°	3473	3483	3532	3674	3730	3629	3555	3935	4764	4761	3428
52.5°	3021	3054	3136	3341	3623	3748	3668	3987	4790	4795	3519
55°	2300	2318	2474	2723	3035	3463	3623	4028	4810	4819	3629
56°	1995	1947	2172	2349	2722	3190	3509	3996	4798	4867	3684
57.5°	1506	1474	1656	1877	2236	2730	3155	3845	4717	4716	3605
60°	916	884	1024	1154	1355	1681	2132	3062	3988	4072	2919
62.5°	545	565	703	782	847	881	1103	1820	2661	2721	1811
65°	363	370	474	604	633	504	449	737	1154	1117	747
67.5°	224	240	318	454	503	368	213	275	318	318	216
70°	136	144	212	309	345	237	155	155	153	150	129
72.5°	65	70	108	159	162	125	120	131	128	127	107
75°	28	30	38	50	57	53	73	94	97	94	77
77.5°	9	10	14	18	19	23	31	39	45	42	38
80°	1	2	4	9	14	18	23	26	29	29	27
82.5°	1	1	4	8	13	17	22	25	29	30	28
85°	0	1	3	7	11	11	10	10	7	7	7
87.5°	0	0	1	1	1	2	2	2	2	2	2
90°	0	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°
0°	903	903	903	903	903	903	903	903	903	903	903
2.5°	911	909	882	865	856	838	827	819	813	806	807
5°	923	916	871	840	803	783	766	752	743	741	737
7.5°	957	920	852	796	749	729	714	705	709	700	707
10°	983	928	829	748	701	686	678	685	695	691	686
12.5°	1015	936	792	702	658	647	661	674	694	702	692
15°	1051	945	745	649	621	630	654	677	697	707	713
17.5°	1095	942	699	607	586	612	641	662	692	707	703
20°	1136	932	648	565	566	590	614	648	664	684	677
22.5°	1175	914	595	536	536	573	585	607	621	631	630
25°	1230	880	551	508	520	544	554	561	555	563	564
27.5°	1269	845	515	483	505	523	520	516	502	491	498
30°	1311	804	484	466	478	494	482	470	448	430	431
32.5°	1371	785	457	446	462	464	451	433	411	394	393
35°	1483	773	434	433	436	437	424	402	393	379	384
37.5°	1595	767	418	414	413	414	399	378	395	394	396
40°	1738	794	395	390	391	391	372	366	396	399	400
42.5°	1883	828	380	364	368	368	358	351	372	352	349
45°	2009	878	364	338	348	353	350	338	325	291	291
47.5°	2050	922	345	313	321	343	334	309	286	258	256
50°	2122	970	330	284	301	328	319	294	268	248	249
52.5°	2196	1025	302	250	271	316	316	288	248	234	232
55°	2307	1023	252	205	242	298	303	258	222	211	211
56°	2323	977	227	192	229	293	294	250	212	200	200
57.5°	2203	882	199	176	213	284	285	243	204	187	185
60°	1695	597	166	157	193	256	261	221	179	166	165
62.5°	957	331	146	142	166	218	233	193	152	145	147
65°	437	182	123	115	134	168	188	159	125	117	117
67.5°	160	124	105	91	94	109	122	103	83	71	74
70°	114	104	92	79	73	71	70	58	41	32	34
72.5°	92	86	77	67	57	48	41	30	19	13	12
75°	66	63	56	48	40	34	28	19	10	5	5
77.5°	34	34	33	30	25	20	16	11	6	2	2
80°	26	28	29	26	23	18	13	8	4	1	1
82.5°	25	29	31	27	23	17	13	8	4	1	1
85°	6	6	9	10	13	14	11	7	3	1	1
87.5°	2	2	2	2	2	2	1	1	1	1	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)