

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: P453112

Luminaire Tested: **GALN-SA4A-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17940 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

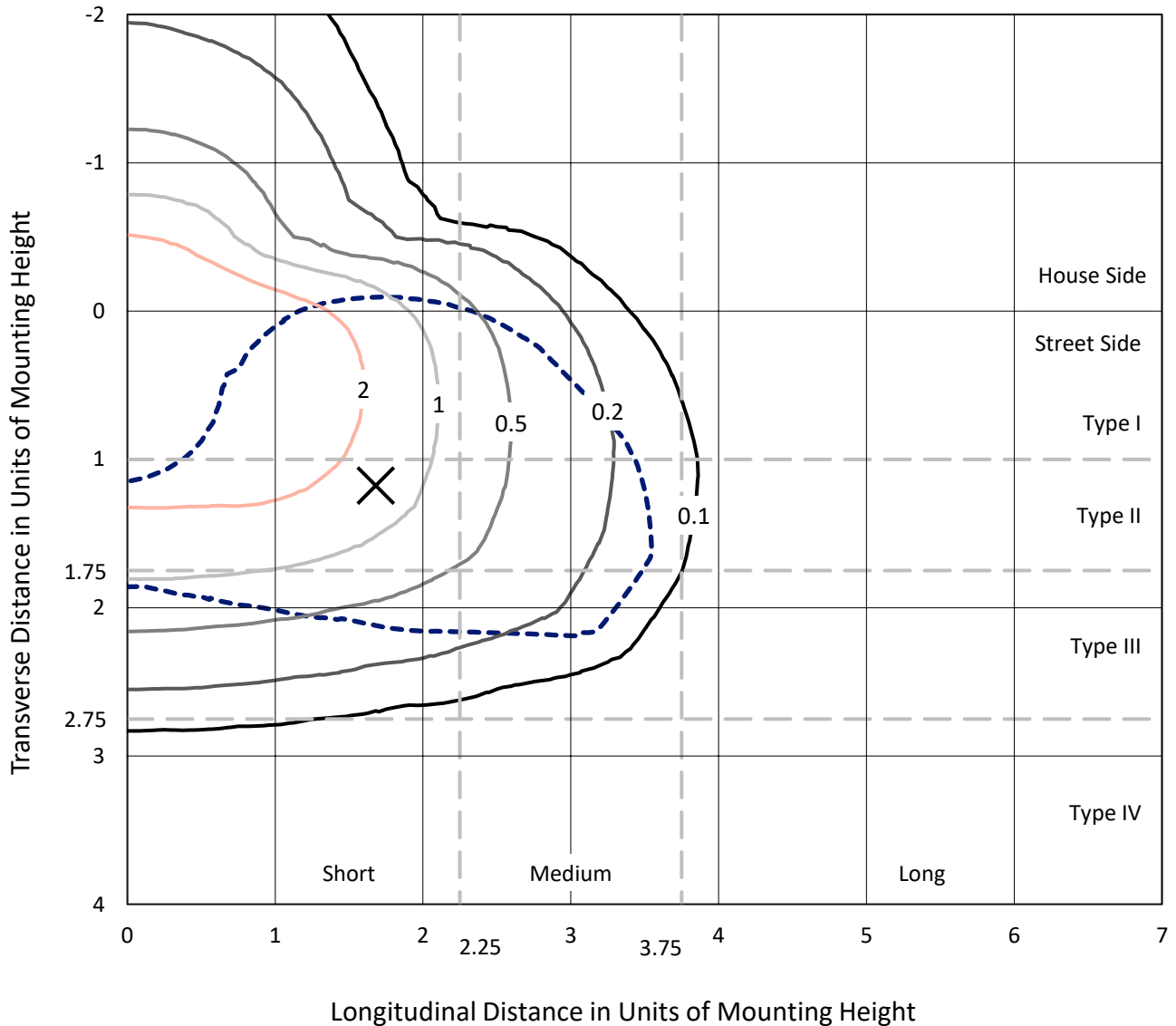
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

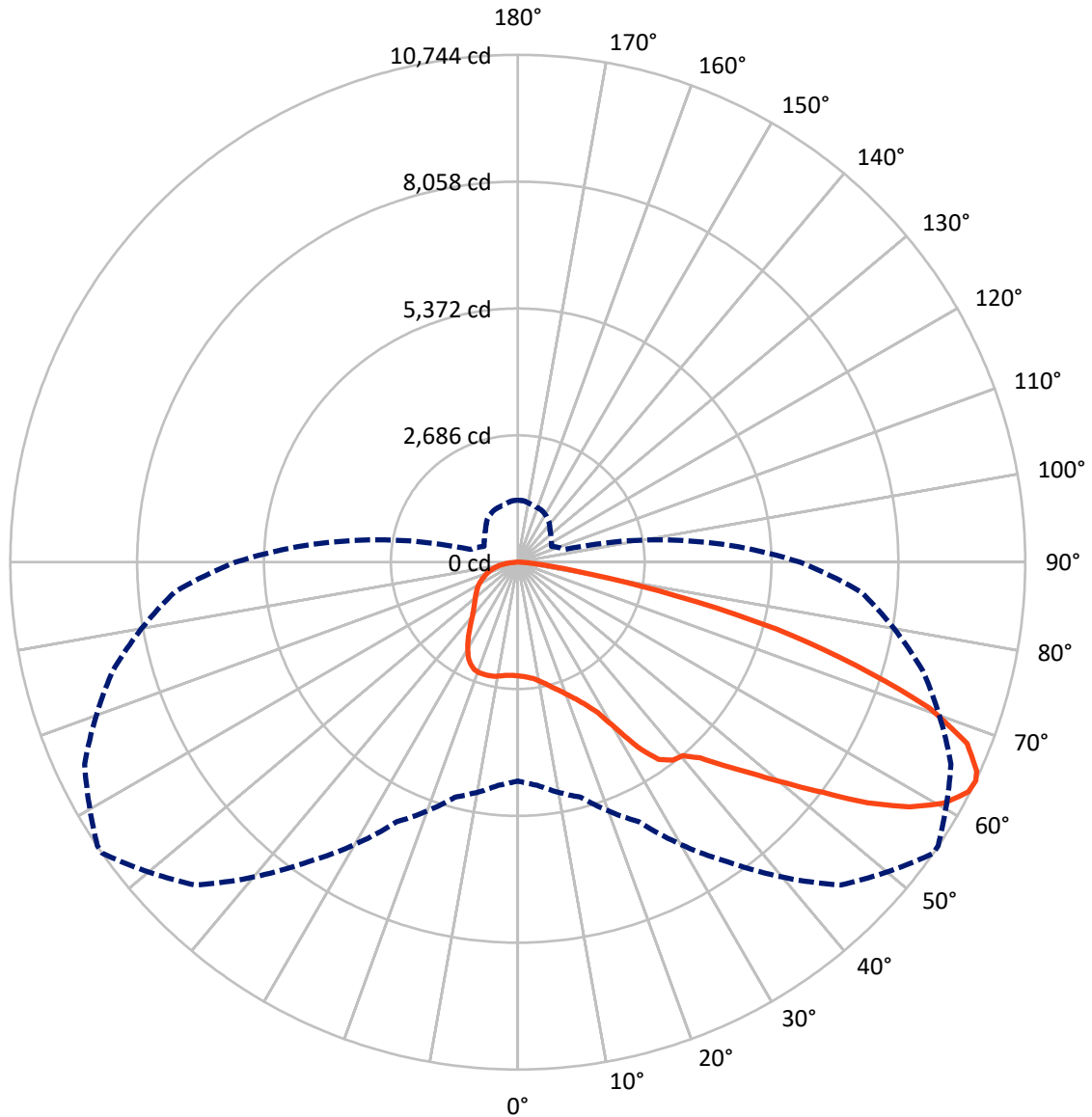
✕ Max cd
 - - - 1/2 Max cd



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 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4358.0	0.0	4358.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13582.0	0.0	13582.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	17940.0	0.0	17940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	1.3
10°-20°	738.8	4.1
20°-30°	1315.2	7.3
30°-40°	2023.6	11.3
40°-50°	2868.6	16.0
50°-60°	4152.2	23.1
60°-70°	4297.1	24.0
70°-80°	2012.4	11.2
80°-90°	297.9	1.7
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°	17940.0	100.0
0°-180°	17940.0	100.0

Coefficient of Utilization



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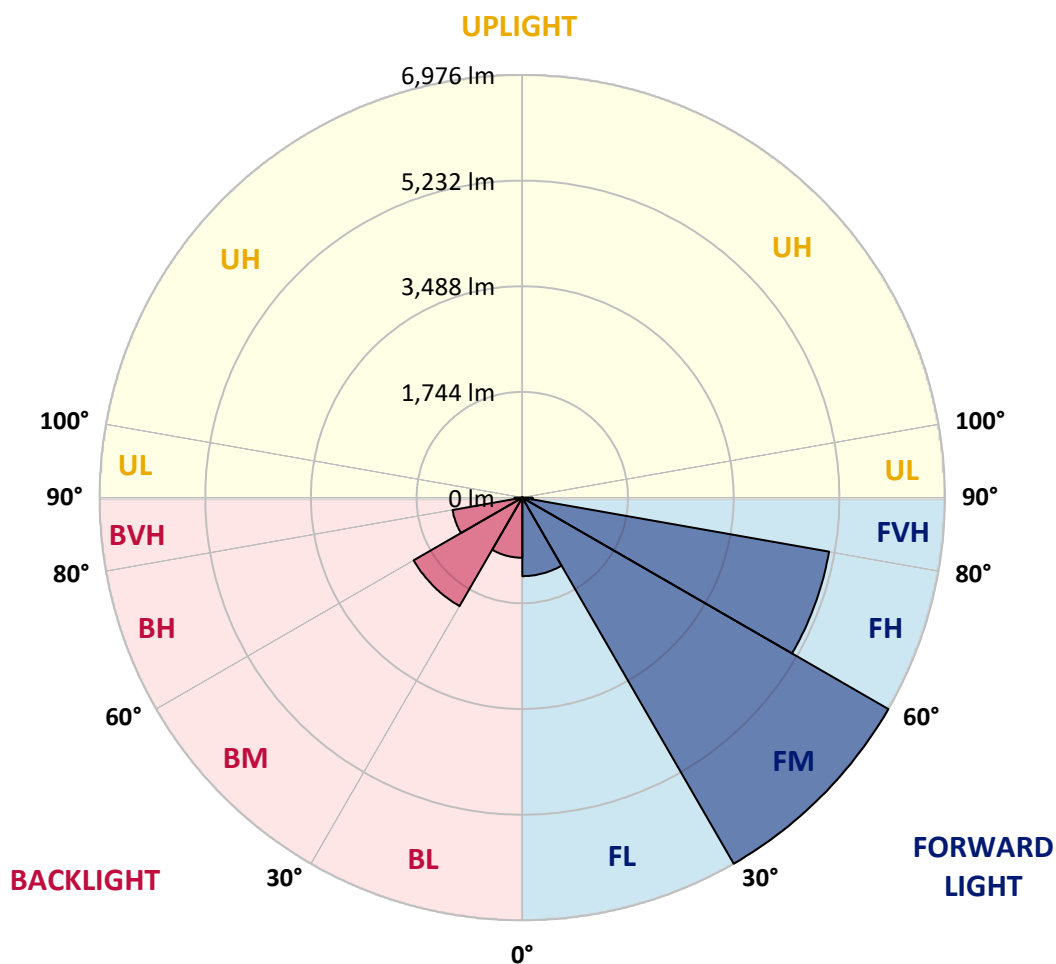
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.6	7.2			
FM	(30°-60°)	6975.5	38.9			
FH	(60°-80°)	5140.3	28.7			G3/7500
FVH	(80°-90°)	170.6	1.0			G2/225
BL	(0°-30°)	992.6	5.5	B2/1000		
BM	(30°-60°)	2068.9	11.5	B2/2500		
BH	(60°-80°)	1169.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	127.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2407	2407	2407	2407	2407	2407	2407	2407	2407	2407	2407
2.5°	2434	2433	2436	2433	2435	2428	2425	2427	2424	2419	2410
5°	2464	2463	2464	2460	2462	2458	2451	2453	2448	2437	2424
7.5°	2515	2511	2511	2510	2506	2500	2495	2493	2488	2474	2454
10°	2581	2581	2582	2574	2579	2568	2563	2562	2545	2527	2499
12.5°	2668	2673	2670	2666	2664	2660	2643	2647	2628	2597	2563
15°	2776	2784	2779	2777	2772	2757	2750	2747	2722	2677	2632
17.5°	2919	2909	2905	2900	2879	2868	2856	2854	2832	2779	2709
20°	3044	3058	3050	3045	3024	3003	2994	2991	2972	2914	2802
22.5°	3193	3196	3199	3187	3177	3161	3145	3140	3133	3073	2936
25°	3352	3364	3354	3342	3330	3329	3344	3342	3339	3281	3114
27.5°	3611	3622	3625	3612	3566	3570	3604	3615	3661	3565	3343
30°	3757	3768	3793	3842	3915	3979	4061	4086	4130	3949	3615
32.5°	3847	3851	3896	3987	4206	4445	4668	4677	4705	4451	3864
35°	3989	3992	4028	4128	4385	4783	5128	5139	5116	4607	3980
37.5°	4164	4172	4195	4278	4585	5066	5319	5311	5107	4731	4185
40°	4419	4419	4392	4504	4796	5228	5386	5372	5318	5090	4497
42.5°	4644	4640	4704	4780	5060	5478	5667	5690	5779	5541	4852
45°	4937	4955	4991	5129	5509	5905	6149	6171	6297	6072	5267
47.5°	5233	5239	5352	5536	6065	6484	6684	6720	6835	6693	5714
50°	5443	5500	5681	5971	6638	7190	7346	7389	7592	7369	6235
52.5°	5665	5721	5942	6384	7296	7912	8104	8133	8344	8053	6768
55°	5855	5907	6158	6750	7820	8649	8997	8963	9064	8580	7179
57.5°	5886	5928	6244	6984	8214	9281	9780	9800	9683	8974	7518
60°	5646	5732	6095	6959	8391	9721	10364	10378	10046	9176	7653
62.5°	5221	5212	5651	6557	8143	9821	10708	10693	10188	9079	7522
64°	4634	4742	5152	6063	7743	9667	10744	10736	10120	8877	7299
65°	4276	4270	4675	5659	7345	9435	10680	10669	9978	8696	7126
67.5°	3087	3101	3501	4367	5971	8528	10263	10222	9418	8096	6468
70°	1870	1878	2192	2897	4286	6894	9251	9253	8561	7200	5505
72.5°	985	1006	1132	1645	2603	4837	7505	7683	7350	6145	4349
75°	548	551	640	811	1328	2707	5641	5692	5819	4946	3216
77.5°	418	424	452	524	723	1255	3414	3670	4101	3487	1835
80°	339	345	369	412	481	595	1586	1724	2195	1548	716
82.5°	264	260	291	319	350	352	651	720	894	666	310
85°	196	196	221	215	226	206	287	317	358	283	144
87.5°	78	86	145	130	101	81	106	112	124	111	60
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°	2407	2407	2407	2407	2407	2407	2407	2407	2407	2407	2407
2.5°	2411	2414	2407	2402	2400	2397	2394	2395	2399	2403	2402
5°	2423	2424	2412	2406	2402	2398	2398	2401	2409	2415	2415
7.5°	2453	2453	2436	2425	2419	2412	2410	2411	2417	2425	2426
10°	2500	2496	2474	2457	2446	2429	2414	2406	2409	2414	2414
12.5°	2557	2546	2518	2495	2468	2436	2405	2389	2388	2393	2391
15°	2618	2606	2567	2525	2478	2431	2394	2371	2353	2348	2359
17.5°	2689	2664	2610	2552	2482	2421	2363	2316	2284	2275	2278
20°	2775	2742	2669	2578	2479	2385	2295	2232	2180	2164	2166
22.5°	2894	2837	2730	2591	2454	2317	2192	2110	2047	2022	2037
25°	3029	2967	2788	2588	2389	2208	2070	1963	1906	1869	1877
27.5°	3215	3105	2850	2561	2296	2075	1915	1814	1762	1743	1752
30°	3453	3284	2917	2488	2149	1907	1759	1693	1662	1638	1646
32.5°	3625	3410	2932	2365	1990	1754	1653	1604	1570	1547	1552
35°	3748	3517	2925	2214	1824	1628	1569	1529	1474	1424	1415
37.5°	3913	3651	2874	2049	1660	1543	1501	1427	1348	1281	1278
40°	4166	3808	2765	1855	1520	1480	1429	1333	1248	1194	1190
42.5°	4427	3953	2617	1651	1405	1414	1352	1257	1205	1170	1166
45°	4746	4110	2457	1474	1320	1352	1285	1230	1199	1176	1170
47.5°	5091	4271	2277	1315	1248	1295	1257	1232	1215	1199	1192
50°	5463	4451	2108	1187	1183	1236	1254	1245	1235	1230	1224
52.5°	5871	4635	1966	1097	1126	1194	1255	1262	1262	1259	1255
55°	6147	4763	1822	1024	1068	1160	1253	1280	1290	1286	1282
57.5°	6351	4833	1641	961	1019	1127	1242	1282	1292	1297	1295
60°	6393	4768	1404	895	966	1079	1202	1252	1265	1296	1299
62.5°	6204	4568	1168	830	901	1006	1148	1218	1244	1292	1297
64°	5972	4344	1037	789	859	965	1121	1209	1243	1307	1311
65°	5802	4181	955	763	832	938	1106	1212	1252	1330	1336
67.5°	5176	3620	790	702	768	892	1109	1237	1250	1339	1338
70°	4283	2882	662	646	706	855	1097	1197	1198	1257	1243
72.5°	3207	2130	574	588	637	767	1036	1143	1126	1134	1120
75°	2203	1409	494	526	565	678	950	1038	1011	1001	991
77.5°	1176	779	411	465	491	586	829	914	886	847	834
80°	476	367	331	385	400	472	690	743	722	654	632
82.5°	239	220	260	303	304	337	513	563	516	433	414
85°	125	129	179	213	188	182	308	341	313	272	245
87.5°	45	52	94	93	66	35	68	33	18	11	14
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)