

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: P453056

Luminaire Tested: **GALN-SA4A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18513 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

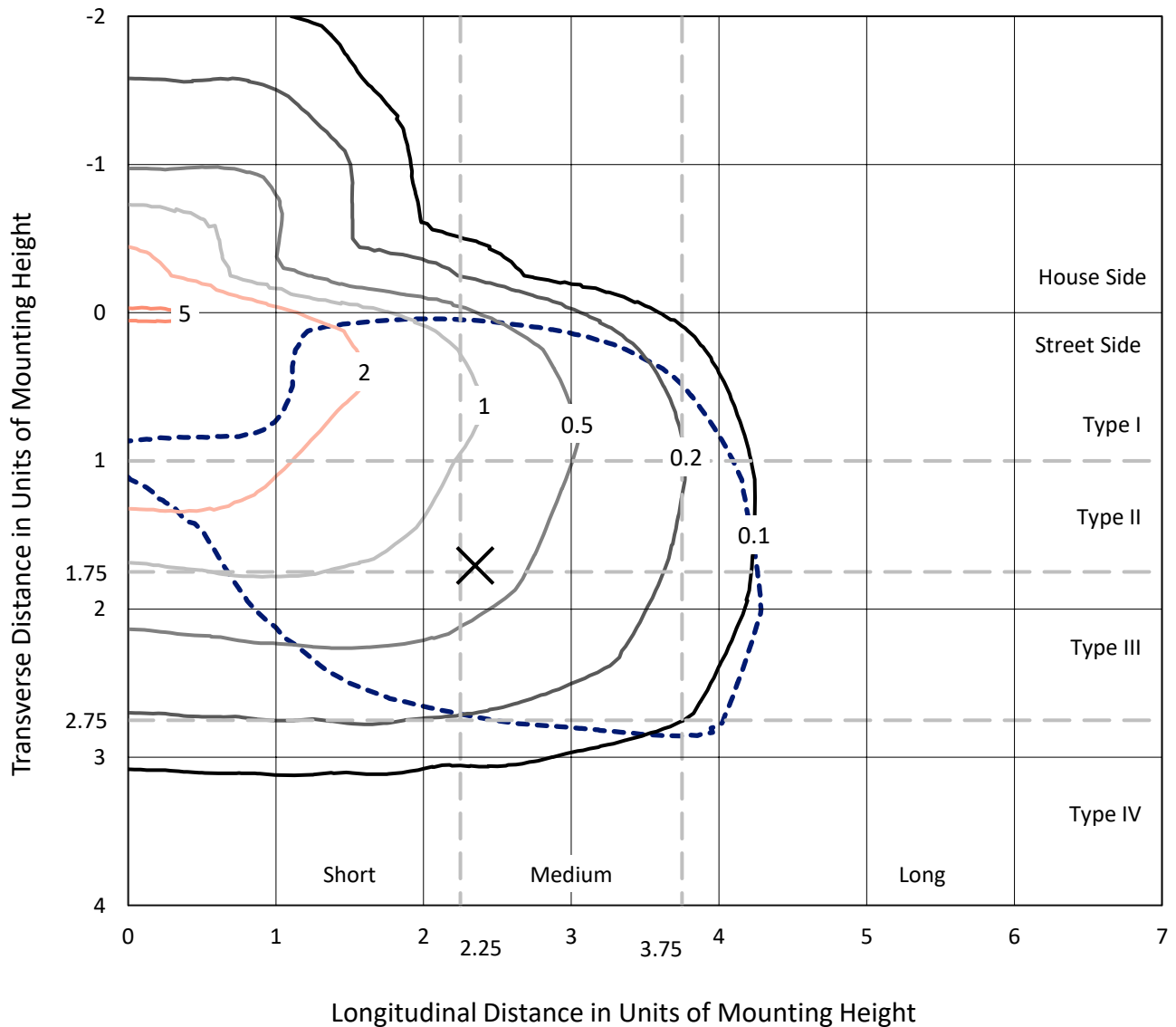
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

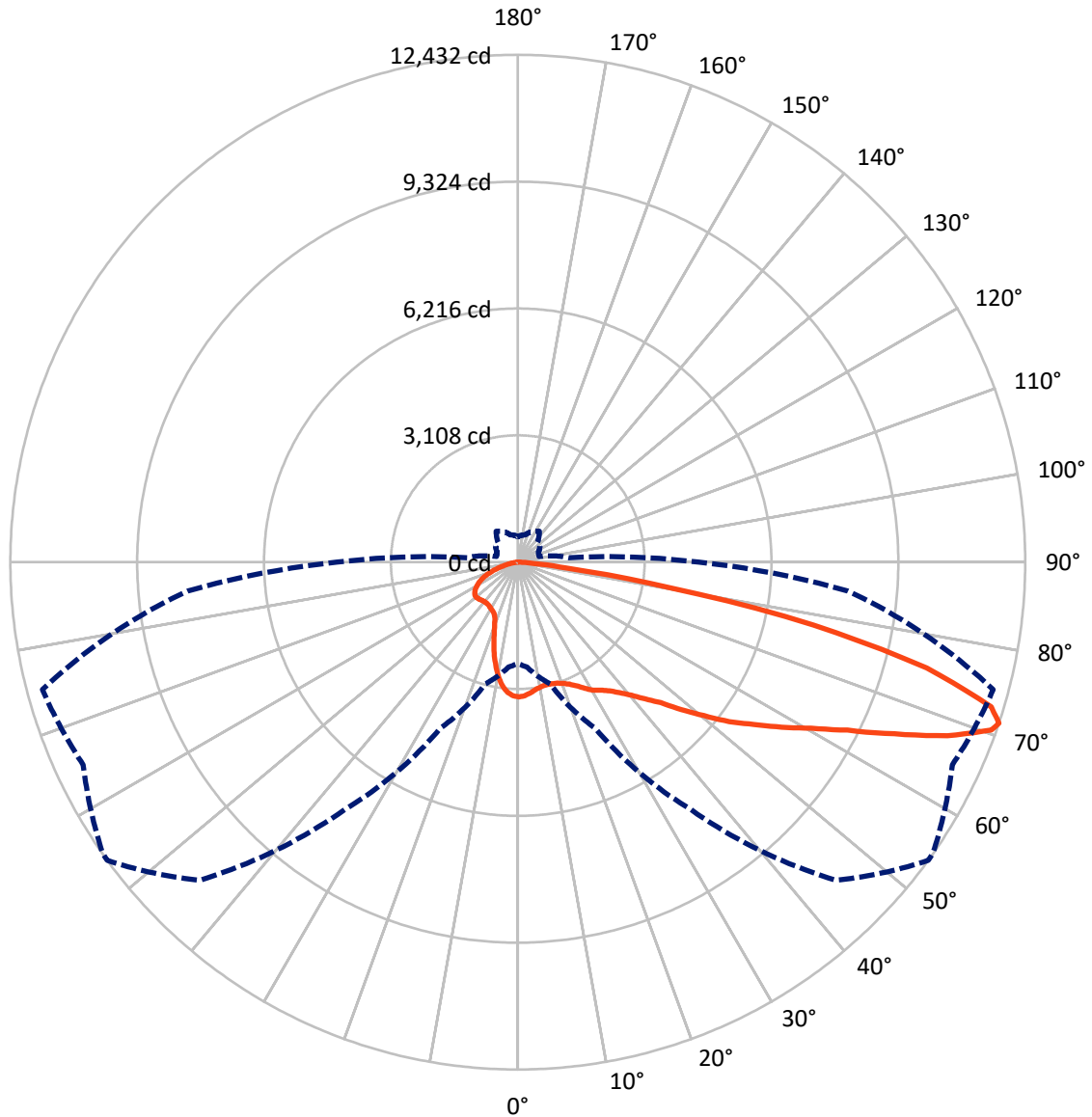
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.4	0.0	3342.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15170.6	0.0	15170.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	18513.0	0.0	18513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	1.6
10°-20°	777.2	4.2
20°-30°	1294.1	7.0
30°-40°	1913.6	10.3
40°-50°	2695.3	14.6
50°-60°	3609.2	19.5
60°-70°	4549.1	24.6
70°-80°	3107.0	16.8
80°-90°	273.2	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°	18513.0	100.0
0°-180°	18513.0	100.0

Coefficient of Utilization



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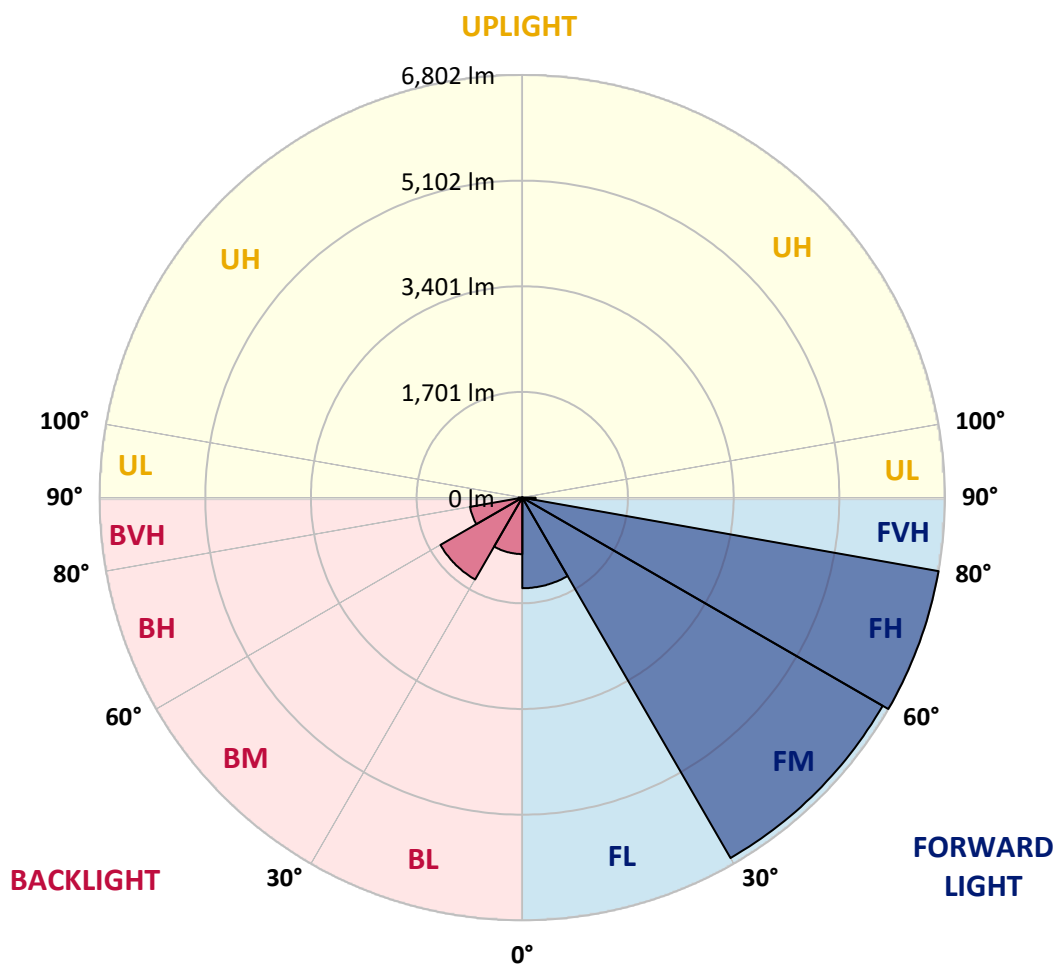
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.3	7.9			
FM	(30°-60°)	6697.4	36.2			
FH	(60°-80°)	6802.4	36.7			G3/7500
FVH	(80°-90°)	213.6	1.2			G2/225
BL	(0°-30°)	908.4	4.9	B2/1000		
BM	(30°-60°)	1520.7	8.2	B2/2500		
BH	(60°-80°)	853.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	59.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3303	3303	3303	3303	3303	3303	3303	3303	3303	3303	3303
2.5°	3191	3206	3210	3220	3241	3258	3275	3273	3297	3307	3316
5°	3049	3053	3068	3088	3125	3172	3218	3219	3278	3325	3348
7.5°	2945	2958	2968	2989	3028	3079	3152	3158	3263	3356	3405
10°	2877	2892	2903	2929	2968	3025	3104	3115	3252	3405	3491
12.5°	2815	2830	2840	2874	2925	2995	3084	3097	3256	3462	3585
15°	2853	2865	2861	2871	2905	2985	3092	3105	3271	3517	3678
17.5°	3022	3032	2999	2961	2945	3004	3117	3131	3301	3574	3773
20°	3271	3298	3226	3141	3064	3072	3169	3184	3343	3631	3870
22.5°	3595	3615	3527	3387	3245	3172	3247	3256	3406	3705	3976
25°	3976	3988	3866	3686	3481	3343	3354	3370	3510	3789	4070
27.5°	4346	4384	4243	4023	3753	3523	3501	3511	3623	3836	4135
30°	4785	4782	4633	4378	4032	3719	3640	3638	3684	3859	4182
32.5°	5135	5176	5030	4752	4351	3922	3736	3732	3731	3899	4252
35°	5533	5539	5405	5125	4696	4177	3870	3850	3827	3985	4347
37.5°	5889	5917	5794	5480	5035	4442	4054	4041	3971	4134	4499
40°	6167	6188	6114	5815	5369	4728	4288	4264	4179	4378	4702
42.5°	6258	6301	6330	6183	5753	5067	4576	4546	4481	4748	4936
45°	6265	6333	6486	6493	6139	5473	4912	4891	4886	5222	5265
47.5°	6212	6281	6538	6677	6483	5883	5397	5364	5367	5808	5634
50°	6084	6166	6478	6795	6752	6309	5909	5898	5960	6477	6017
52.5°	5843	5942	6416	6869	6952	6676	6491	6460	6617	7203	6436
55°	5176	5325	6189	6910	7142	7027	7015	7071	7279	7995	6897
57.5°	4828	4940	5696	6917	7382	7435	7627	7641	8005	8836	7418
60°	4638	4737	5426	6871	7717	7940	8253	8303	8714	9747	7958
62.5°	4472	4557	5264	6712	8095	8689	9064	9088	9519	10753	8491
65°	4081	4178	4938	6553	8421	9625	10140	10112	10376	11621	8825
67.5°	3554	3677	4329	6004	8582	10648	11352	11317	11222	12190	8921
70°	2881	2947	3550	5055	7939	11185	12309	12272	11746	12265	8467
71°	2479	2582	3091	4490	7404	11021	12432	12422	11747	12058	8125
72.5°	1935	1998	2448	3479	6293	10089	12128	12166	11492	11483	7420
75°	1224	1252	1536	2048	3453	7145	10353	10456	10204	9399	5518
77.5°	711	747	920	1207	1492	3878	7408	7520	7090	5175	2259
80°	414	454	606	701	685	1439	3772	3963	3070	1307	634
82.5°	230	257	426	427	365	470	1187	1242	876	527	259
85°	167	189	275	249	175	202	413	433	354	222	84
87.5°	59	84	151	120	48	42	119	97	90	62	19
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°	3303	3303	3303	3303	3303	3303	3303	3303	3303	3303	3303
2.5°	3321	3323	3313	3295	3277	3254	3228	3208	3199	3198	3197
5°	3357	3362	3324	3268	3206	3130	3065	2991	2972	2942	2951
7.5°	3415	3412	3337	3218	3073	2912	2776	2697	2615	2592	2593
10°	3498	3479	3337	3116	2874	2635	2445	2325	2260	2206	2186
12.5°	3586	3538	3305	2973	2618	2325	2121	1959	1917	1873	1874
15°	3670	3590	3242	2772	2342	1994	1796	1699	1686	1691	1690
17.5°	3746	3627	3146	2548	2020	1710	1605	1612	1647	1672	1675
20°	3823	3649	3003	2248	1716	1538	1542	1597	1650	1684	1689
22.5°	3896	3659	2835	1958	1496	1465	1524	1583	1635	1668	1673
25°	3944	3636	2597	1655	1388	1439	1501	1551	1595	1629	1637
27.5°	3957	3562	2302	1410	1338	1414	1471	1508	1542	1574	1580
30°	3950	3453	1978	1266	1309	1385	1429	1456	1497	1522	1527
32.5°	3939	3326	1640	1189	1285	1358	1384	1408	1407	1397	1404
35°	3943	3174	1366	1143	1264	1338	1360	1330	1244	1240	1236
37.5°	3964	3024	1167	1111	1253	1335	1347	1209	1133	1098	1089
40°	4018	2849	1036	1087	1252	1358	1288	1148	1002	934	929
42.5°	4090	2677	956	1072	1264	1393	1264	1062	903	863	857
45°	4197	2480	912	1065	1282	1406	1256	999	863	831	831
47.5°	4318	2292	888	1060	1305	1397	1185	979	844	848	867
50°	4438	2129	870	1049	1325	1392	1156	978	849	900	934
52.5°	4577	2014	848	1031	1325	1360	1147	998	863	878	893
55°	4745	1978	820	992	1301	1280	1142	1027	873	838	844
57.5°	4967	2036	793	943	1246	1197	1140	1035	850	821	815
60°	5225	2151	785	893	1171	1126	1128	1012	818	788	793
62.5°	5406	2220	780	855	1089	1048	1099	984	804	778	783
65°	5406	2136	734	797	983	954	1064	949	786	756	751
67.5°	5201	1891	664	710	866	847	1015	907	759	736	724
70°	4667	1434	576	608	718	735	952	850	714	686	668
71°	4432	1249	539	556	661	686	922	826	694	654	622
72.5°	3979	1052	483	490	565	610	859	780	656	599	563
75°	3023	768	389	385	418	484	727	695	575	498	477
77.5°	1306	418	291	294	284	367	572	597	493	405	386
80°	396	241	199	203	190	246	403	468	396	315	289
82.5°	203	144	136	134	121	139	244	320	283	197	174
85°	88	77	67	65	57	50	87	160	150	110	105
87.5°	22	20	13	12	7	1	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)