

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: P453092

Luminaire Tested: **GALN-SA4A-760-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18934.1 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

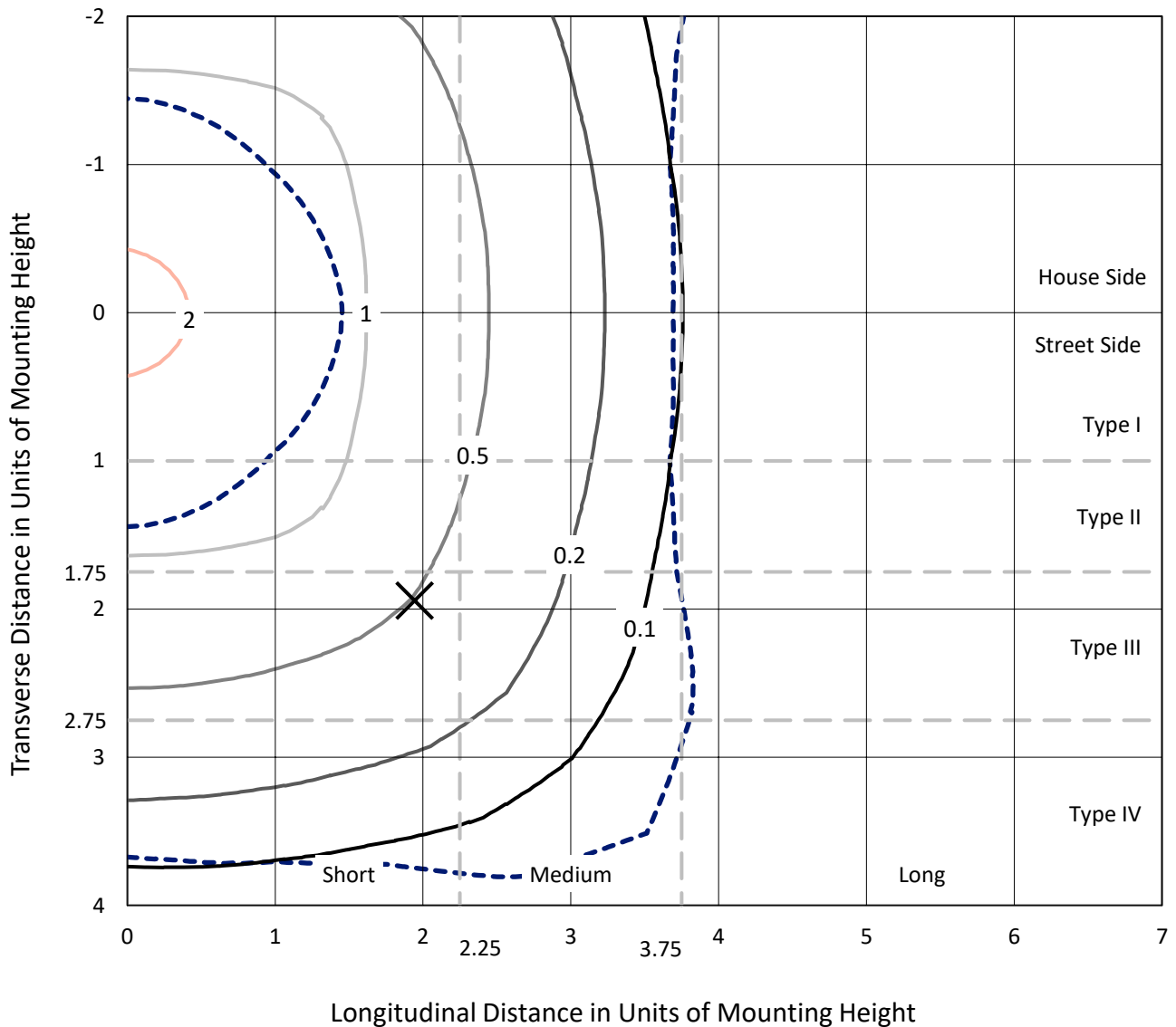
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

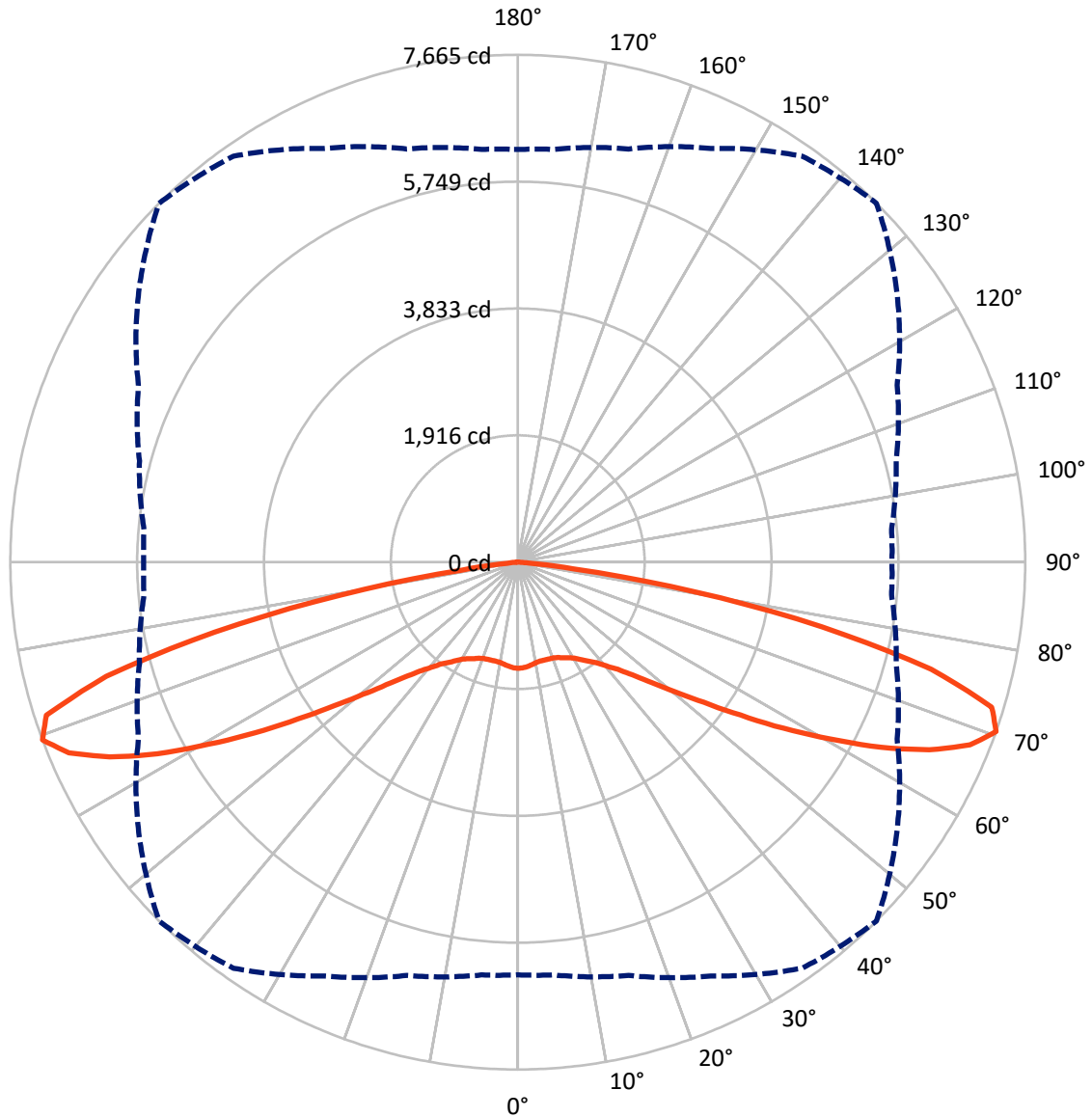
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9467.0	0.0	9467.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9467.0	0.0	9467.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18934.1	0.0	18934.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	0.8
10°-20°	438.9	2.3
20°-30°	747.7	3.9
30°-40°	1159.0	6.1
40°-50°	1950.7	10.3
50°-60°	3549.3	18.7
60°-70°	6008.8	31.7
70°-80°	4651.1	24.6
80°-90°	278.7	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°	18934.1	100.0
0°-180°	18934.1	100.0

Coefficient of Utilization



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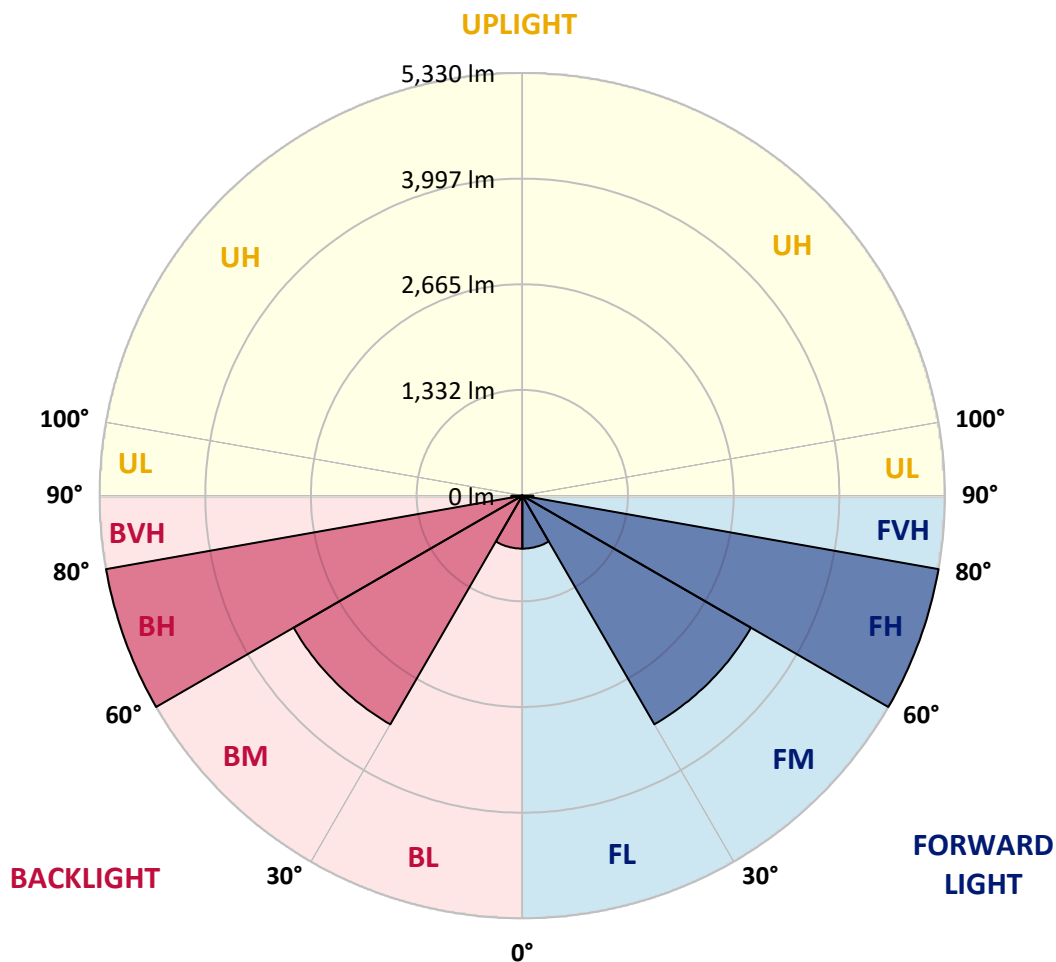
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.3	3.5			
FM (30°-60°)	3329.5	17.6			
FH (60°-80°)	5329.9	28.1			G3/7500
FVH (80°-90°)	139.3	0.7			G2/225
BL (0°-30°)	668.3	3.5	B2/1000		
BM (30°-60°)	3329.5	17.6	B3/5000		
BH (60°-80°)	5329.9	28.1	B5		G3/7500
BVH (80°-90°)	139.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1603	1603	1603	1603	1603	1603	1603	1603	1603	1603	1603
2.5°	1599	1600	1600	1598	1597	1597	1596	1596	1599	1600	1601
5°	1585	1585	1585	1584	1582	1582	1580	1580	1581	1584	1582
7.5°	1566	1568	1568	1564	1561	1561	1560	1561	1562	1565	1564
10°	1560	1561	1556	1549	1544	1541	1542	1544	1549	1551	1552
12.5°	1564	1564	1555	1545	1536	1532	1531	1538	1547	1553	1555
15°	1569	1567	1556	1543	1534	1533	1532	1537	1550	1562	1563
17.5°	1572	1571	1557	1541	1536	1536	1535	1539	1553	1568	1569
20°	1582	1579	1563	1546	1542	1544	1541	1546	1561	1579	1583
22.5°	1602	1599	1583	1566	1564	1564	1563	1568	1584	1603	1606
25°	1626	1623	1608	1596	1598	1602	1600	1601	1614	1630	1635
27.5°	1658	1653	1640	1630	1636	1636	1636	1635	1643	1658	1663
30°	1697	1695	1681	1680	1685	1680	1680	1681	1682	1696	1701
32.5°	1748	1744	1737	1735	1749	1753	1739	1726	1733	1747	1750
35°	1832	1826	1816	1805	1816	1835	1805	1795	1813	1832	1834
37.5°	1946	1943	1927	1907	1906	1926	1895	1894	1928	1951	1954
40°	2089	2092	2072	2053	2043	2059	2035	2044	2077	2103	2101
42.5°	2290	2279	2248	2230	2219	2213	2207	2221	2258	2286	2308
45°	2525	2521	2482	2460	2436	2427	2425	2450	2495	2529	2532
47.5°	2791	2782	2757	2734	2725	2714	2704	2723	2768	2792	2799
50°	3065	3067	3067	3063	3072	3074	3047	3054	3079	3077	3075
52.5°	3378	3389	3441	3446	3489	3518	3469	3440	3431	3377	3381
55°	3746	3756	3834	3912	4028	4077	3974	3884	3820	3738	3742
57.5°	4205	4210	4284	4434	4618	4733	4552	4374	4244	4166	4135
60°	4699	4704	4812	4995	5281	5421	5197	4906	4742	4623	4631
62.5°	5292	5312	5409	5661	6008	6165	5868	5479	5257	5109	5115
65°	5927	5961	6067	6344	6664	6833	6469	6020	5744	5563	5582
67.5°	6339	6369	6522	6828	7227	7367	6897	6374	6029	5813	5773
70°	6234	6259	6463	6897	7488	7665	6999	6322	5916	5667	5651
72.5°	5503	5451	5749	6372	7190	7487	6678	5774	5263	5007	4977
75°	3647	3760	4200	4934	6083	6451	5700	4636	3993	3780	3747
77.5°	1219	1306	1697	2797	4147	4700	4153	3032	2145	1728	1736
80°	323	319	413	769	1792	2722	2086	1027	562	407	386
82.5°	116	130	167	213	475	846	597	288	211	156	151
85°	51	50	72	85	119	158	140	122	107	71	66
87.5°	11	11	17	13	21	21	26	31	32	21	17
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)