

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: P459801

Luminaire Tested: **GWC-SA2A-AMB-U-5WQ**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-AMB-U-5WQ  
Description: GALLEON WALL LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2309 lumens  
Efficiency: N/A  
Efficacy: 55.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 41.7  
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: 28.75 FT

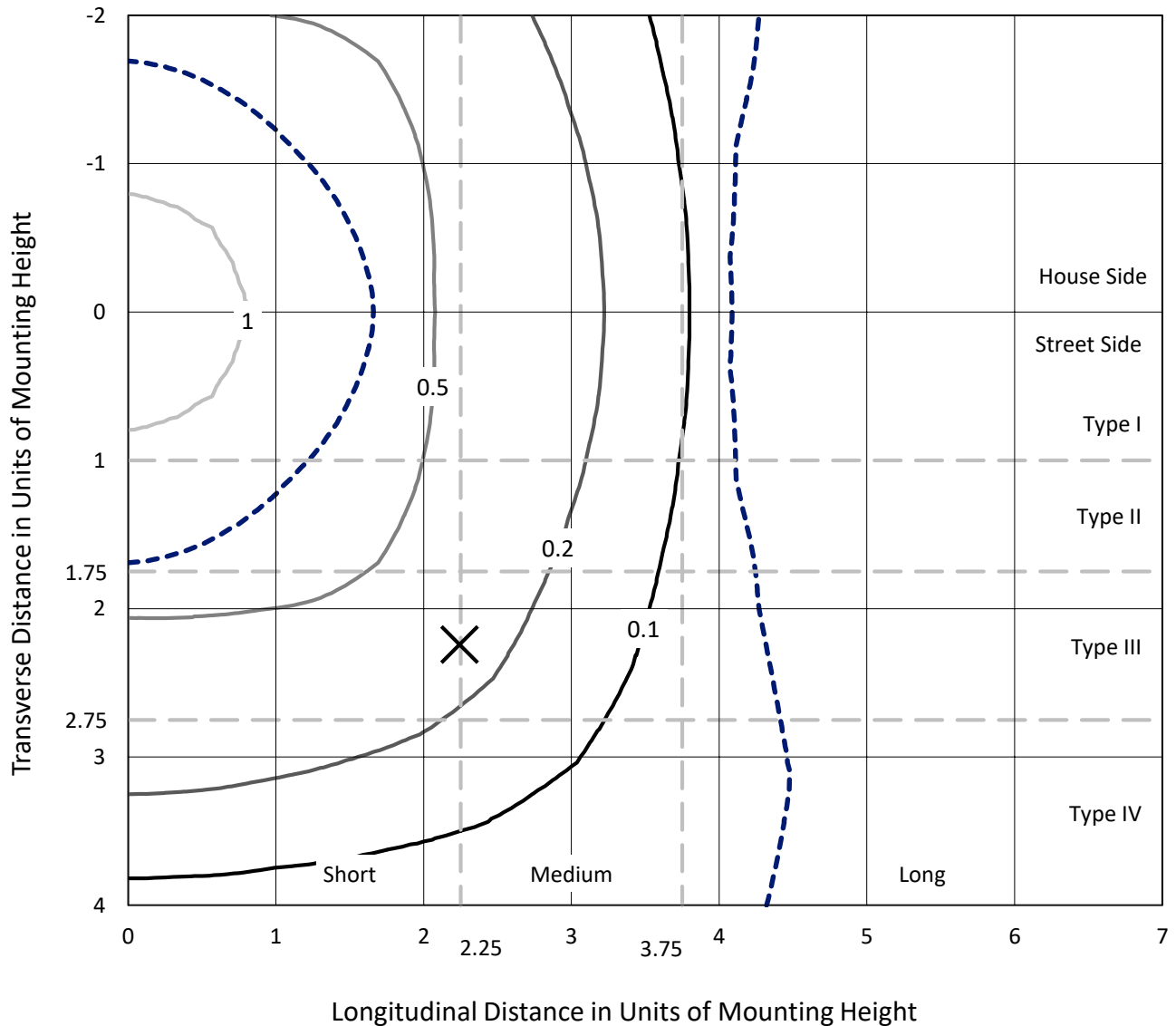


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

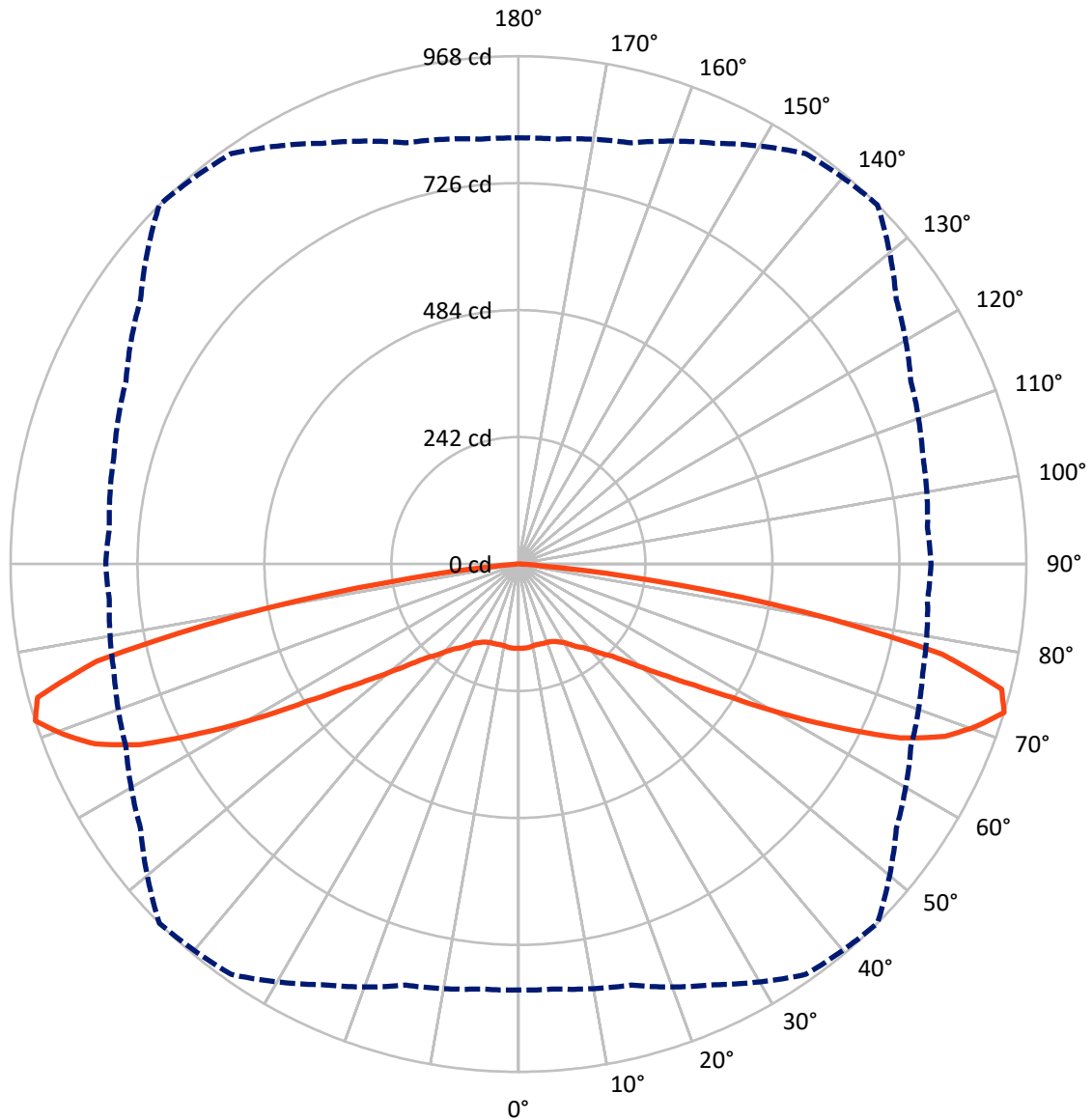


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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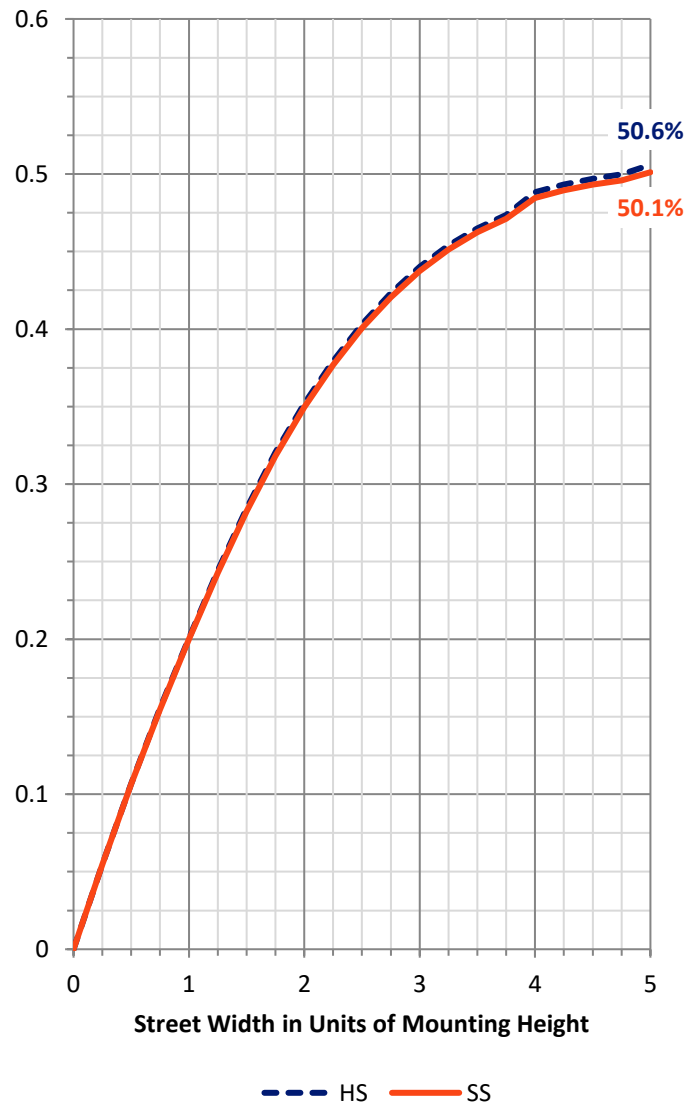
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1154.5	0.0	1154.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1154.5	0.0	1154.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2309.0	0.0	2309.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.3	0.7
10°-20°	45.4	2.0
20°-30°	77.7	3.4
30°-40°	121.8	5.3
40°-50°	201.6	8.7
50°-60°	371.7	16.1
60°-70°	690.5	29.9
70°-80°	719.0	31.1
80°-90°	66.1	2.9
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°	2309.0	100.0
0°-180°	2309.0	100.0



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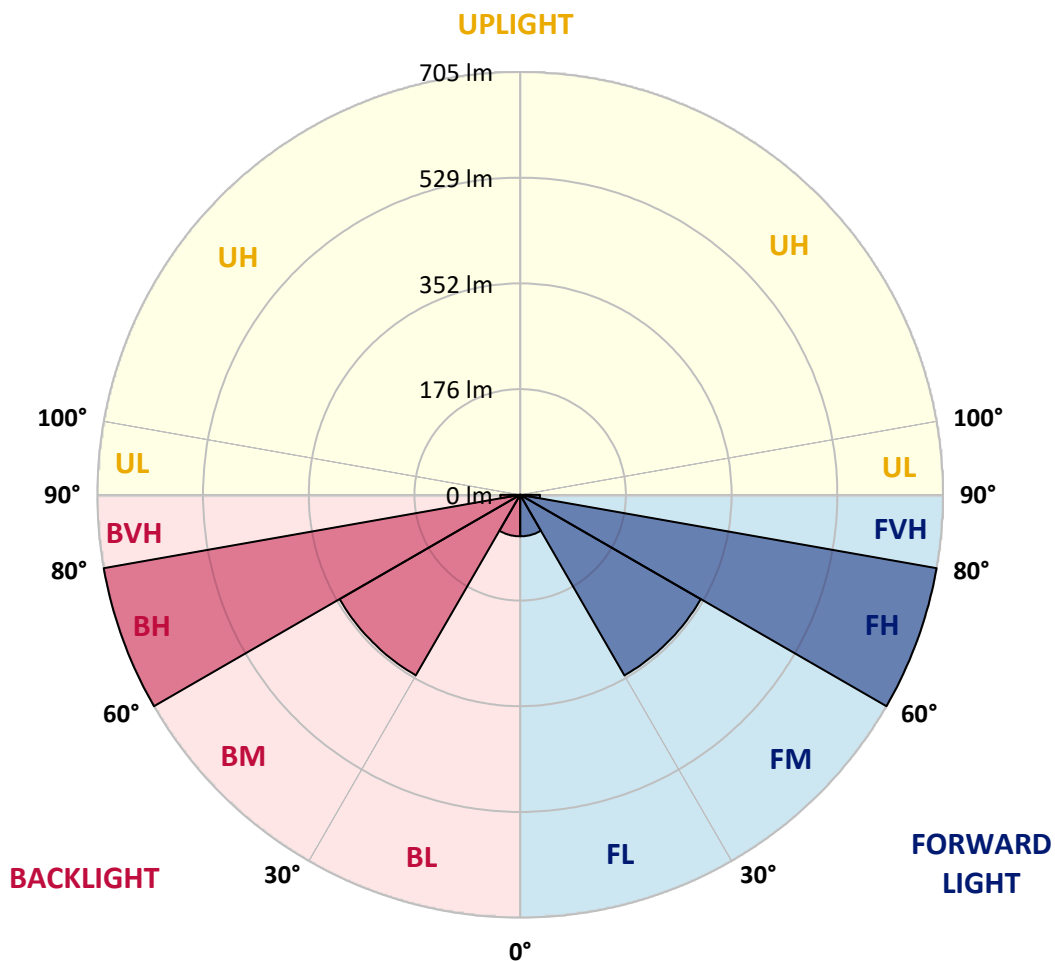
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	69.2	3.0			
FM (30°-60°)	347.6	15.1			
FH (60°-80°)	704.7	30.5			G1/1800
FVH (80°-90°)	33.0	1.4			G1/100
BL (0°-30°)	69.2	3.0	B0/110		
BM (30°-60°)	347.6	15.1	B1/1000		
BH (60°-80°)	704.7	30.5	B2/1000		G1/1800
BVH (80°-90°)	33.0	1.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7
2.5°	161.7	161.7	161.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7
5°	161.7	161.7	161.7	161.7	160.7	160.7	160.7	159.8	159.8	159.8	160.7
7.5°	160.7	161.7	160.7	160.7	159.8	159.8	158.8	158.8	158.8	158.8	158.8
10°	161.7	161.7	160.7	159.8	158.8	157.9	157.9	157.9	157.9	158.8	158.8
12.5°	162.6	162.6	160.7	158.8	158.8	157.9	157.9	157.9	157.9	158.8	159.8
15°	163.6	163.6	161.7	158.8	158.8	157.9	157.9	157.9	159.8	160.7	161.7
17.5°	165.5	164.5	161.7	159.8	158.8	158.8	158.8	158.8	160.7	162.6	162.6
20°	165.5	165.5	162.6	159.8	159.8	158.8	159.8	159.8	161.7	163.6	164.5
22.5°	168.3	167.3	163.6	161.7	160.7	160.7	161.7	161.7	163.6	165.5	166.4
25°	171.1	171.1	167.3	164.5	163.6	163.6	164.5	164.5	166.4	169.2	170.2
27.5°	176.8	175.9	172.1	169.2	168.3	168.3	170.2	170.2	171.1	174.0	174.9
30°	181.5	181.5	177.7	176.8	174.9	174.0	175.9	177.7	177.7	179.6	180.6
32.5°	185.3	185.3	183.4	183.4	184.4	183.4	185.3	184.4	183.4	185.3	185.3
35°	191.9	191.9	190.0	189.1	192.9	193.8	192.9	190.0	190.0	191.9	192.9
37.5°	202.3	202.3	200.4	198.5	199.5	202.3	199.5	198.5	200.4	203.3	204.2
40°	217.5	218.4	216.5	215.6	212.7	215.6	212.7	214.6	217.5	219.3	219.3
42.5°	234.5	235.4	232.6	230.7	231.6	233.5	229.7	230.7	234.5	237.3	237.3
45°	260.9	260.0	255.3	252.4	249.6	250.5	248.7	253.4	257.2	261.9	263.8
47.5°	286.5	285.5	283.6	280.8	277.0	278.0	278.0	281.7	286.5	291.2	291.2
50°	318.6	318.6	315.8	313.9	311.1	312.9	311.1	315.8	321.5	325.2	326.2
52.5°	355.5	354.5	354.5	353.6	351.7	355.5	352.7	358.3	363.1	364.0	365.9
55°	394.3	397.1	400.9	400.9	403.7	407.5	405.6	406.5	410.3	406.5	408.4
57.5°	444.4	447.2	452.9	460.4	469.9	480.3	473.7	468.9	461.4	455.7	454.8
60°	496.4	499.2	510.5	533.2	556.9	579.6	559.7	538.0	520.9	506.8	505.8
62.5°	553.1	557.8	573.9	607.9	653.3	687.3	656.1	613.6	582.4	560.6	561.6
65°	627.8	630.6	647.6	687.3	758.2	799.8	751.6	694.9	656.1	631.6	632.5
67.5°	740.3	738.4	746.9	784.7	843.3	877.4	819.7	773.4	733.7	705.3	710.0
70°	818.8	817.8	823.5	863.2	919.9	926.5	868.9	816.9	783.8	766.8	766.8
72.5°	812.1	813.1	831.0	884.9	954.9	968.1	879.3	825.4	798.0	782.8	786.6
75°	657.1	659.0	710.0	808.4	925.6	951.1	855.6	764.9	685.4	642.0	634.4
77.5°	315.8	318.6	394.3	556.9	746.9	825.4	740.3	549.3	401.8	326.2	333.7
80°	95.5	98.3	130.5	228.8	427.3	551.2	442.5	226.0	115.3	84.1	84.1
82.5°	20.8	25.5	30.3	50.1	147.5	251.5	147.5	55.8	34.0	24.6	22.7
85°	11.3	11.3	17.0	18.0	23.6	41.6	28.4	22.7	19.9	13.2	13.2
87.5°	4.7	4.7	8.5	8.5	9.5	6.6	10.4	11.3	11.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)