

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: P455816

Luminaire Tested: **GALN-SA7A-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33407 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

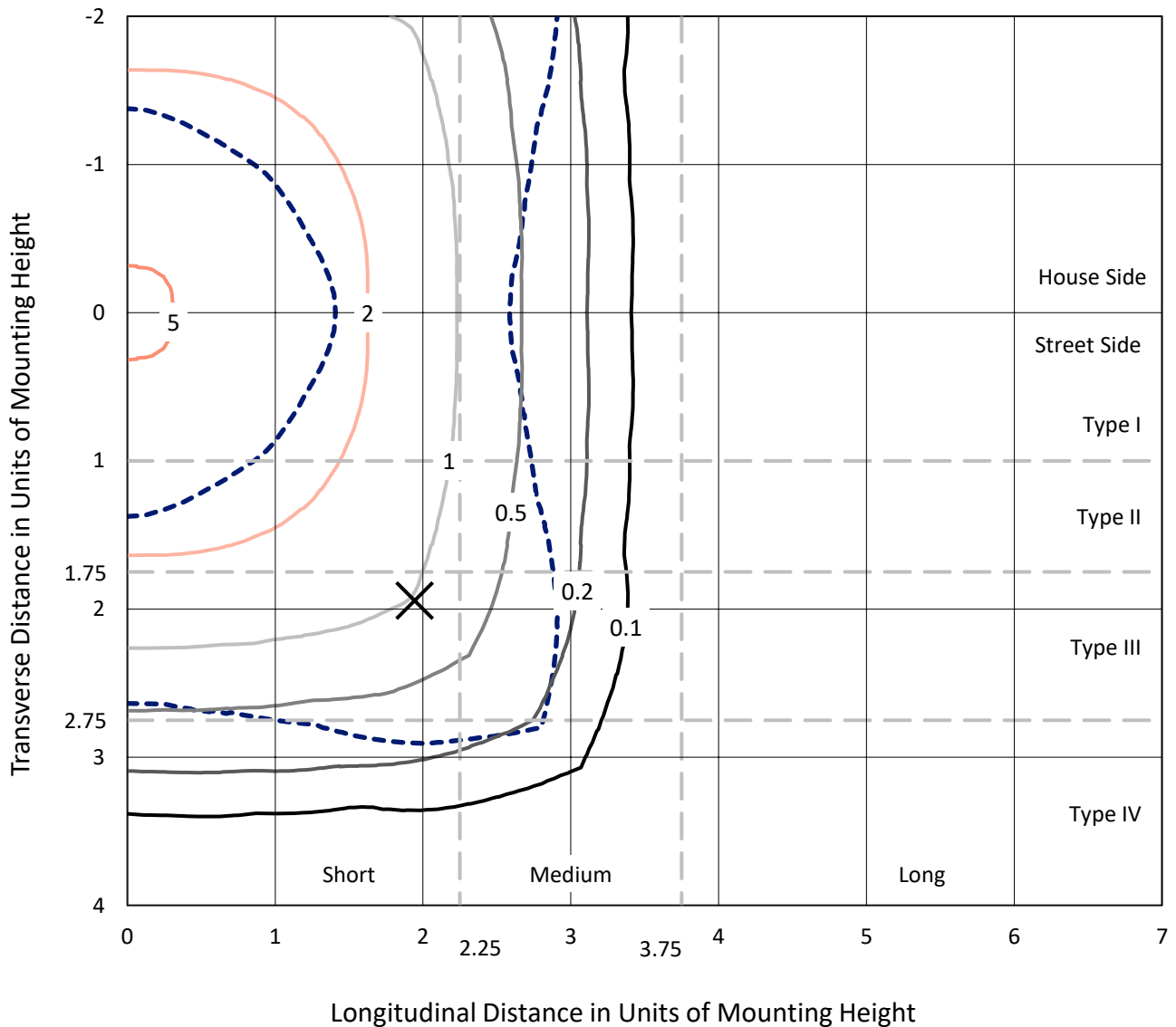
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455816  
 CATALOG NUMBER: GALN-SA7A-740-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

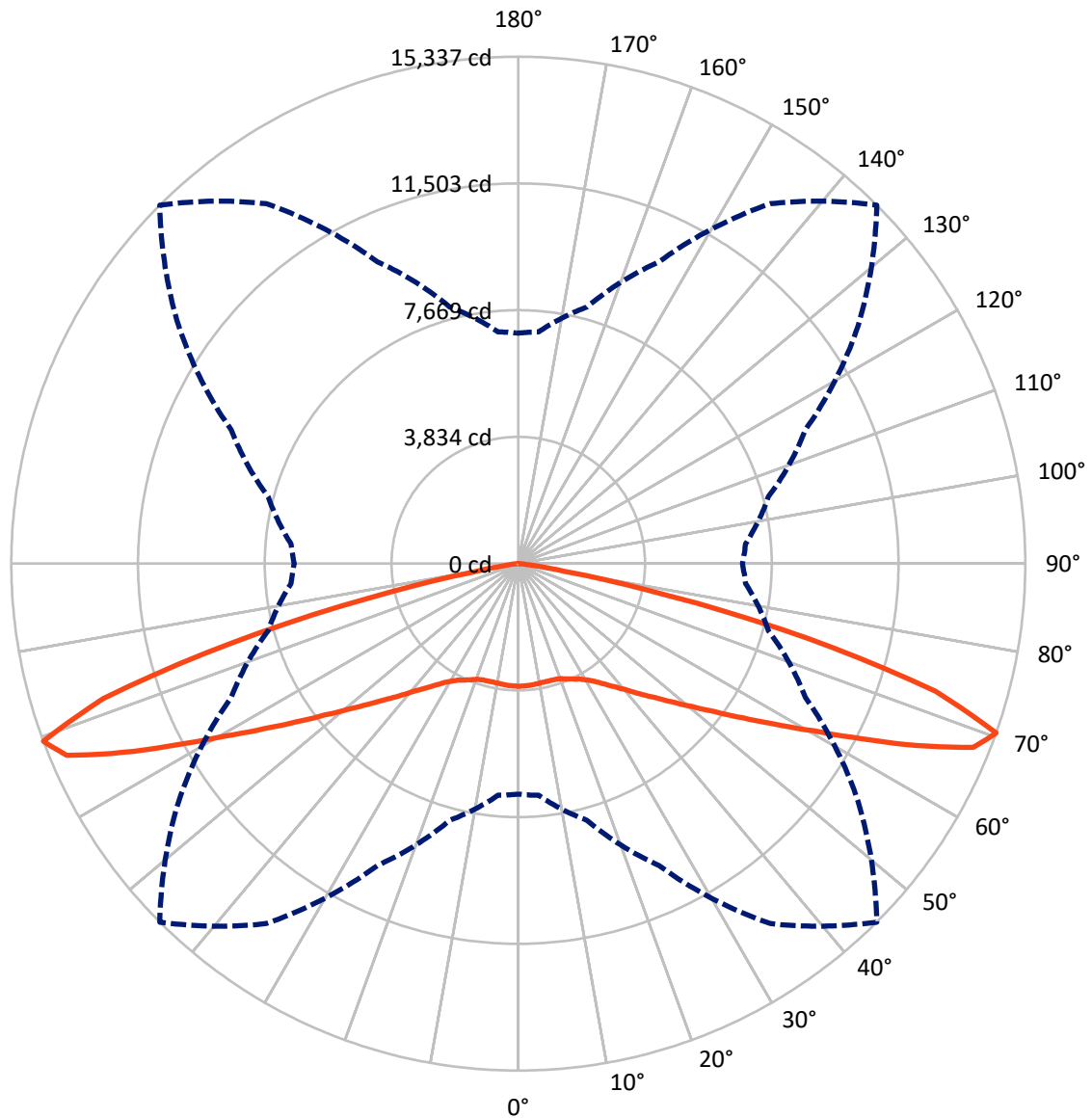
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P455816  
CATALOG NUMBER: GALN-SA7A-740-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455816

CATALOG NUMBER: GALN-SA7A-740-U-5MQ

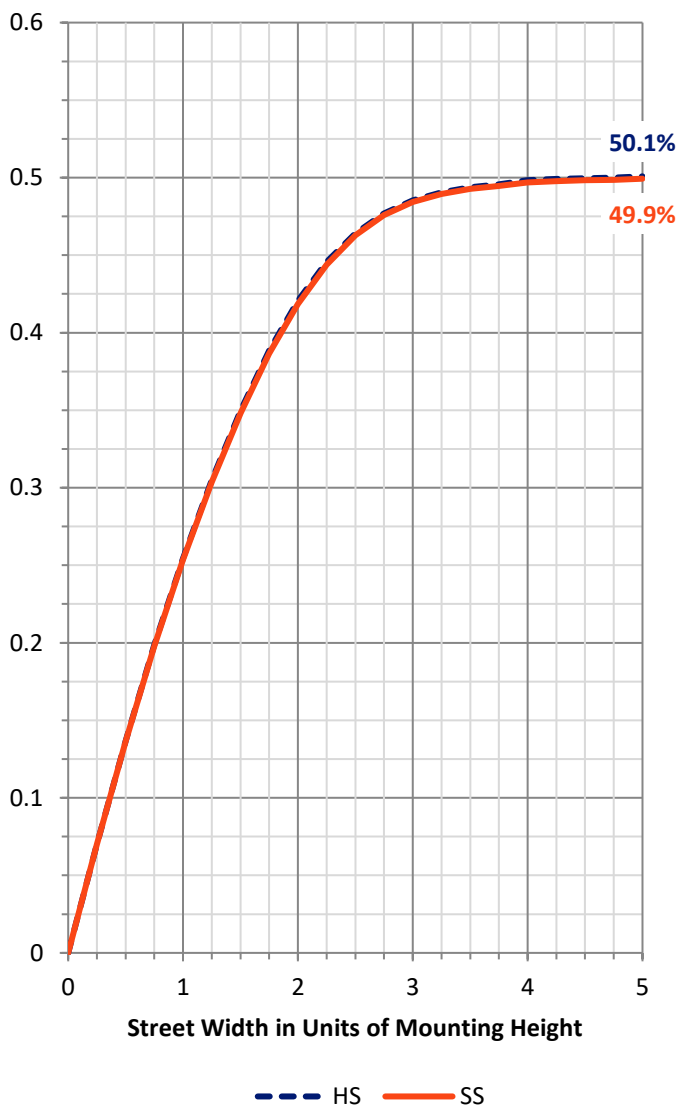
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16703.5	0.0	16703.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16703.5	0.0	16703.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33407.0	0.0	33407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.8	1.1
10°-20°	1032.3	3.1
20°-30°	1765.5	5.3
30°-40°	2802.3	8.4
40°-50°	4520.8	13.5
50°-60°	7355.4	22.0
60°-70°	10662.7	31.9
70°-80°	4729.6	14.2
80°-90°	186.5	0.6
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°	33407.0	100.0
0°-180°	33407.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455816

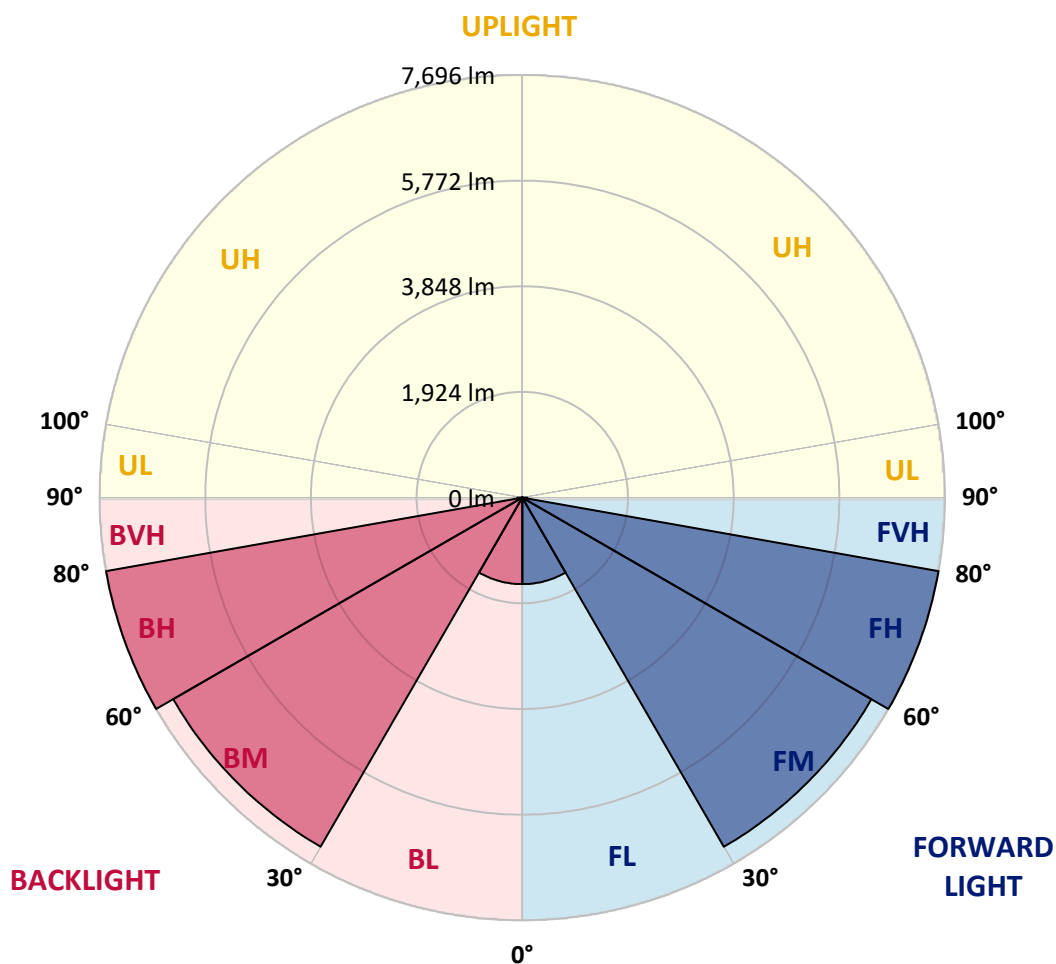
CATALOG NUMBER: GALN-SA7A-740-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.8	4.7			
FM (30°-60°)	7339.3	22.0			
FH (60°-80°)	7696.2	23.0			G4/12000
FVH (80°-90°)	93.3	0.3			G1/100
BL (0°-30°)	1574.8	4.7	B3/2500		
BM (30°-60°)	7339.3	22.0	B4/8500		
BH (60°-80°)	7696.2	23.0	B5		G4/12000
BVH (80°-90°)	93.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





REPORT NUMBER: P455816

CATALOG NUMBER: GALN-SA7A-740-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7	3709.7
2.5°	3709.7	3713.2	3707.9	3704.4	3702.6	3702.6	3700.9	3702.6	3713.2	3715.0	3709.7
5°	3699.1	3702.6	3700.9	3697.4	3695.6	3695.6	3693.8	3692.1	3700.9	3704.4	3702.6
7.5°	3685.0	3686.8	3685.0	3683.3	3685.0	3683.3	3678.0	3674.5	3681.5	3681.5	3679.8
10°	3660.4	3663.9	3662.2	3663.9	3667.4	3667.4	3660.4	3653.3	3655.1	3651.6	3651.6
12.5°	3630.5	3635.7	3637.5	3644.5	3653.3	3663.9	3648.1	3632.2	3628.7	3626.9	3625.2
15°	3611.1	3616.4	3623.4	3630.5	3646.3	3669.2	3646.3	3621.7	3614.6	3607.6	3604.1
17.5°	3605.8	3612.9	3623.4	3634.0	3655.1	3678.0	3658.6	3634.0	3616.4	3605.8	3602.3
20°	3619.9	3625.2	3641.0	3660.4	3690.3	3713.2	3693.8	3667.4	3641.0	3625.2	3619.9
22.5°	3648.1	3656.9	3676.2	3711.5	3753.7	3787.2	3760.7	3716.7	3674.5	3653.3	3646.3
25°	3709.7	3716.7	3739.6	3787.2	3836.5	3868.1	3840.0	3788.9	3730.8	3702.6	3693.8
27.5°	3803.0	3813.6	3838.2	3894.6	3935.1	3952.7	3933.3	3898.1	3855.8	3825.9	3818.9
30°	3935.1	3947.4	3984.4	4044.2	4070.6	4081.2	4072.4	4049.5	4019.6	3987.9	3980.8
32.5°	4112.9	4119.9	4162.2	4218.5	4243.2	4246.7	4236.1	4225.6	4176.3	4123.4	4119.9
35°	4311.8	4324.2	4375.2	4442.1	4465.0	4466.8	4445.6	4429.8	4371.7	4329.4	4329.4
37.5°	4575.9	4581.2	4630.5	4706.2	4730.9	4723.8	4713.3	4699.2	4637.6	4583.0	4584.7
40°	4885.8	4896.4	4938.6	5026.7	5026.7	5017.9	5024.9	5014.3	4952.7	4899.9	4901.7
42.5°	5253.8	5259.1	5310.1	5403.4	5396.4	5378.8	5385.8	5371.7	5333.0	5273.1	5252.0
45°	5646.4	5667.5	5755.6	5845.4	5831.3	5774.9	5803.1	5799.6	5764.4	5674.6	5679.9
47.5°	6120.0	6155.2	6239.7	6347.1	6331.3	6243.3	6275.0	6296.1	6246.8	6148.2	6130.6
50°	6653.5	6676.4	6801.4	6901.7	6887.7	6794.3	6866.5	6870.1	6746.8	6607.7	6607.7
52.5°	7222.2	7245.1	7414.1	7570.8	7579.6	7444.0	7502.1	7498.6	7297.9	7114.8	7079.6
55°	7859.5	7870.1	8088.4	8319.1	8368.4	8236.3	8243.4	8172.9	7912.4	7699.3	7680.0
57.5°	8518.0	8556.8	8798.0	9097.3	9243.4	9162.4	9125.4	8937.1	8685.3	8440.6	8428.2
60°	9246.9	9248.7	9562.1	9916.0	10211.8	10266.4	10114.9	9863.2	9537.4	9213.5	9199.4
62.5°	9752.2	9827.9	10224.1	10822.7	11352.7	11659.0	11259.4	10731.2	10090.3	9567.4	9514.6
65°	9856.1	9907.2	10511.1	11525.2	12608.0	13268.3	12343.9	11220.6	10127.3	9430.0	9394.8
67.5°	9016.3	9070.9	9884.3	11440.7	13488.3	14842.3	13048.2	10984.7	9500.5	8637.7	8569.1
70°	6973.9	7035.6	8040.9	10070.9	13292.9	15337.0	12546.4	9581.5	7834.9	6903.5	6778.5
72.5°	3707.9	3935.1	4794.3	6912.3	10789.3	13204.9	10287.5	6991.5	5053.1	4130.5	3965.0
75°	1353.9	1382.1	1861.0	3065.3	6276.7	9055.0	6517.9	3334.7	1917.3	1480.7	1405.0
77.5°	559.9	558.1	612.7	926.1	2280.0	4637.6	2544.1	978.9	610.9	565.2	558.1
80°	331.0	331.0	364.5	385.6	600.4	1399.7	670.8	436.6	366.2	334.5	339.8
82.5°	147.9	156.7	230.6	243.0	290.5	383.8	324.0	278.2	239.4	165.5	149.7
85°	81.0	70.4	121.5	126.8	139.1	142.6	153.2	151.4	139.1	81.0	82.8
87.5°	15.8	19.4	35.2	26.4	29.9	26.4	35.2	49.3	51.1	28.2	22.9
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)