

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: P454193

Luminaire Tested: **GALN-SA5B-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29739 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

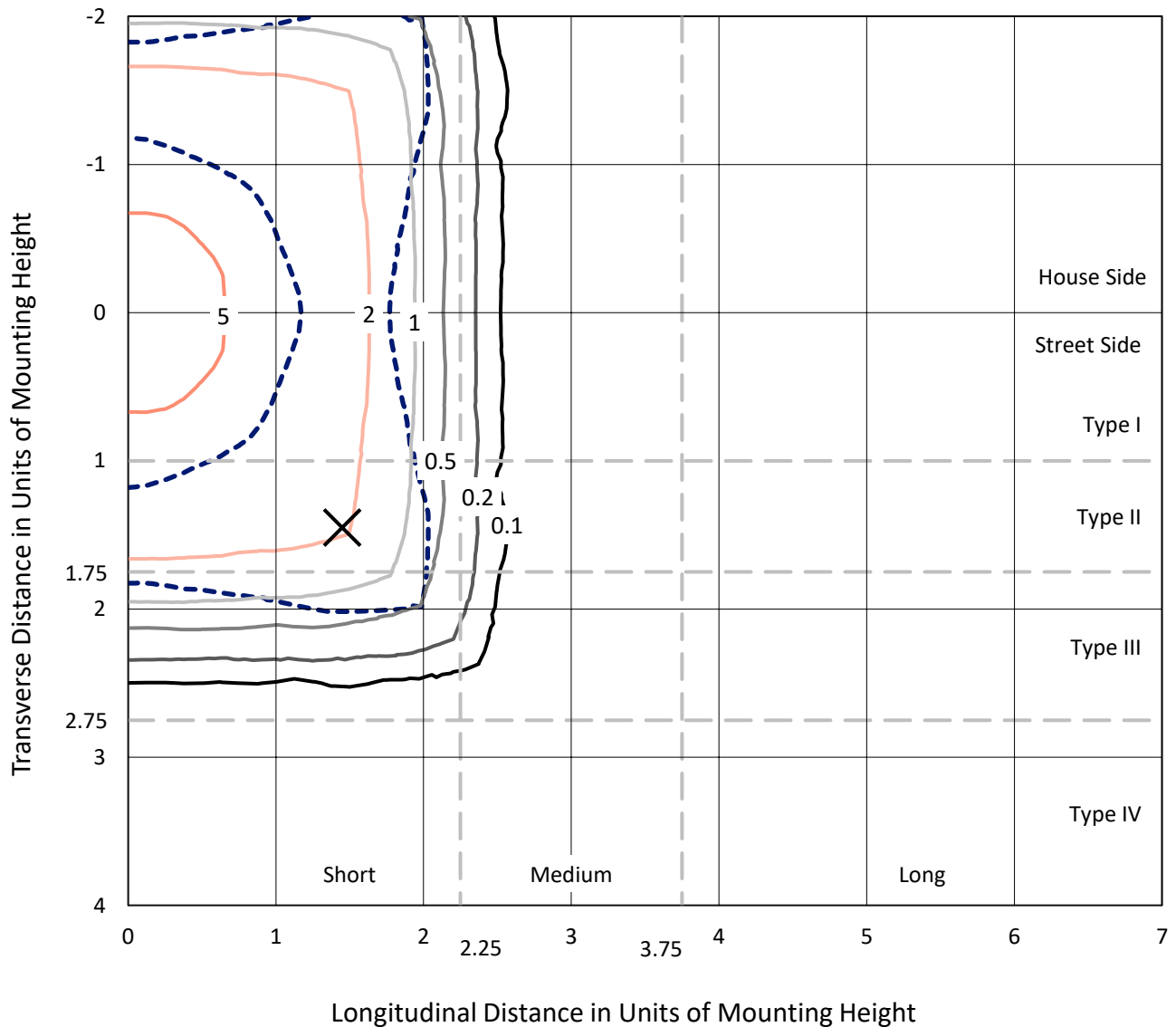
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

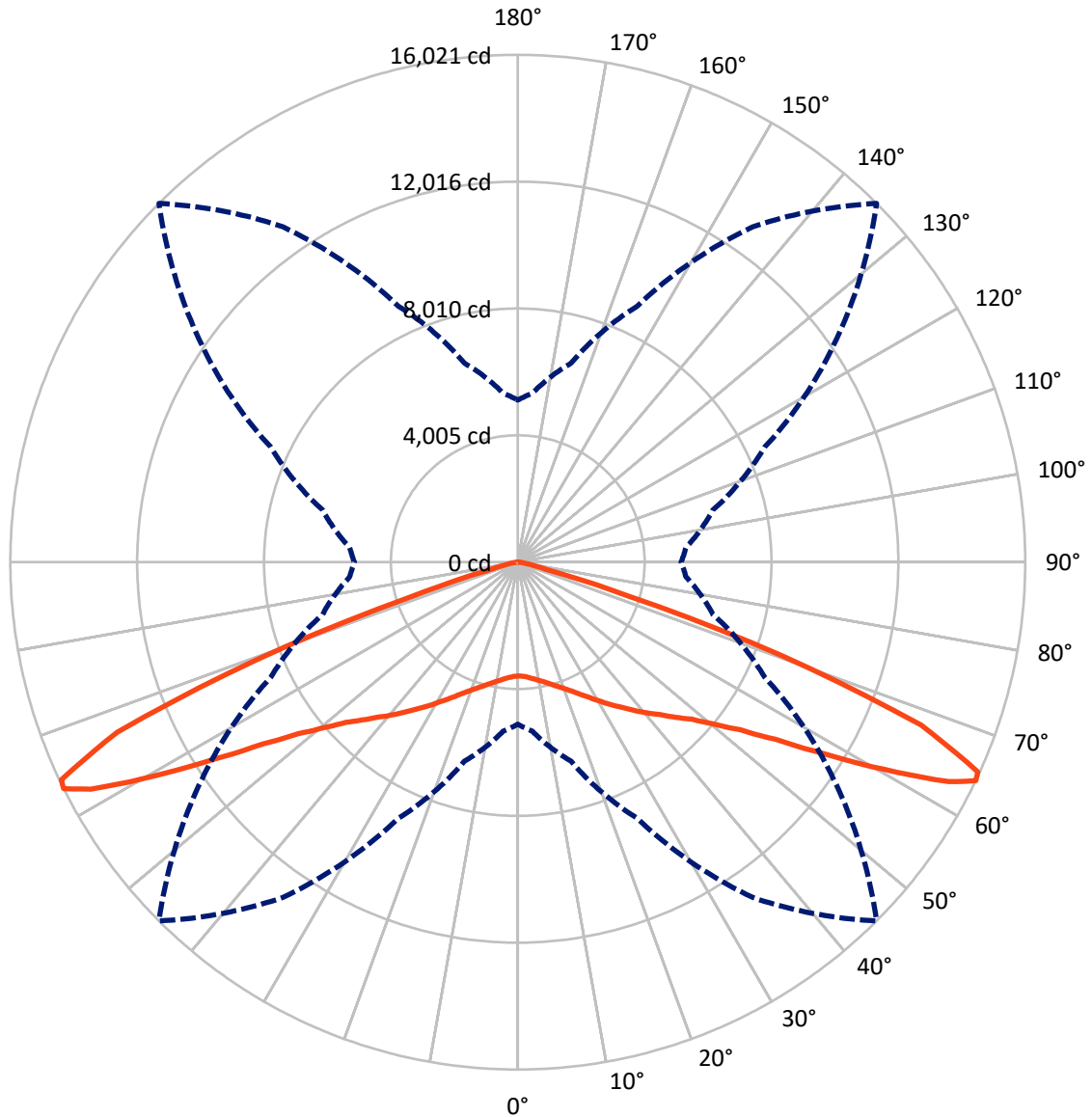
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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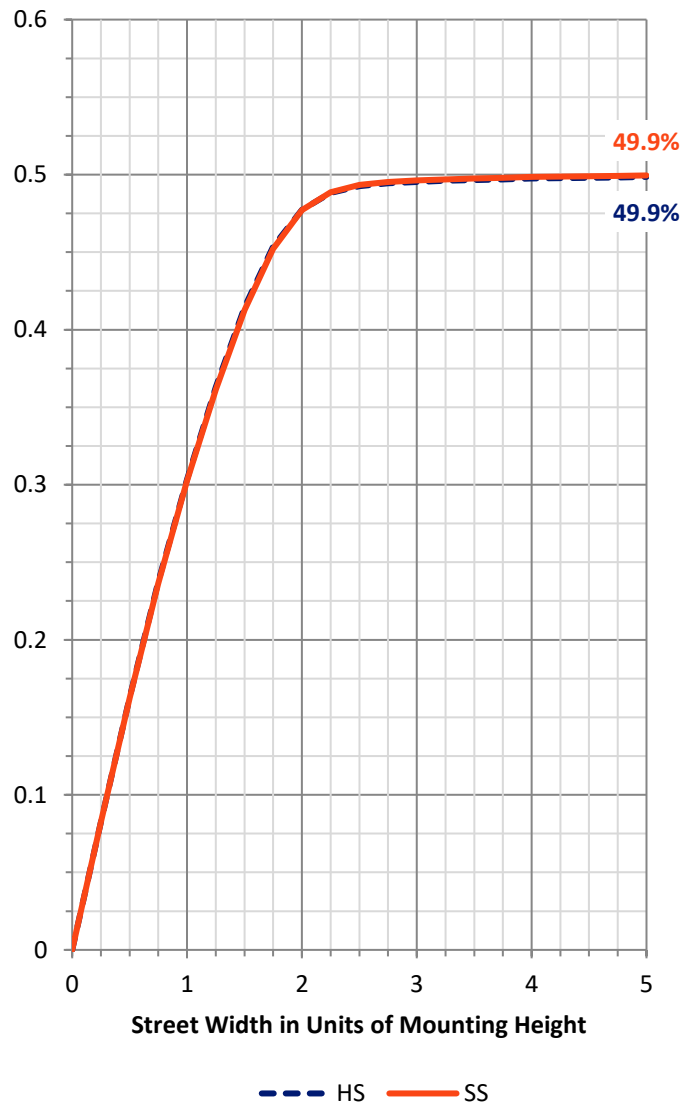
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14869.5	0.0	14869.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14869.5	0.0	14869.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29739.0	0.0	29739.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.1	1.2
10°-20°	1139.1	3.8
20°-30°	2152.5	7.2
30°-40°	3564.8	12.0
40°-50°	5565.3	18.7
50°-60°	8603.8	28.9
60°-70°	7418.9	24.9
70°-80°	840.8	2.8
80°-90°	100.7	0.3
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°	29739.0	100.0
0°-180°	29739.0	100.0



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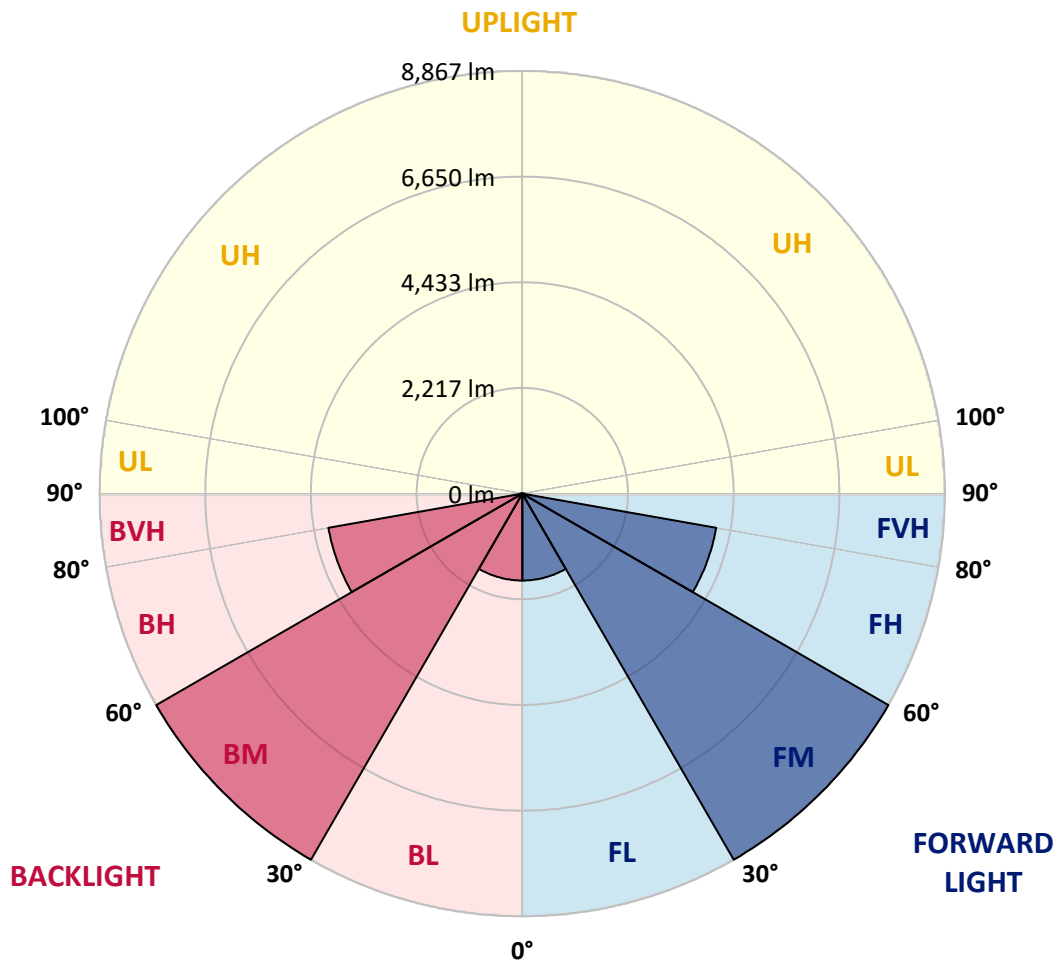
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.4	6.1			
FM	(30°-60°)	8866.9	29.8			
FH	(60°-80°)	4129.8	13.9			G2/5000
FVH	(80°-90°)	50.4	0.2			G1/100
BL	(0°-30°)	1822.4	6.1	B3/2500		
BM	(30°-60°)	8866.9	29.8	B5		
BH	(60°-80°)	4129.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	50.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5	3594.5
2.5°	3608.6	3616.5	3610.2	3608.6	3607.1	3607.1	3607.1	3608.6	3614.9	3619.7	3616.5
5°	3654.3	3660.6	3657.5	3655.9	3654.3	3655.9	3652.7	3651.2	3655.9	3655.9	3654.3
7.5°	3711.0	3718.9	3715.7	3718.9	3720.5	3722.0	3714.2	3707.9	3706.3	3711.0	3707.9
10°	3788.2	3794.5	3796.1	3797.7	3800.8	3799.2	3789.8	3778.7	3777.2	3775.6	3774.0
12.5°	3874.8	3879.6	3881.1	3887.4	3892.2	3893.7	3882.7	3873.3	3857.5	3860.7	3854.4
15°	3972.5	3981.9	3980.4	3989.8	4002.4	4005.6	3994.5	3978.8	3964.6	3956.7	3952.0
17.5°	4092.2	4098.5	4095.4	4104.8	4120.6	4128.4	4119.0	4098.5	4084.3	4067.0	4057.5
20°	4234.0	4245.0	4248.1	4248.1	4262.3	4270.2	4256.0	4249.7	4227.7	4215.1	4207.2
22.5°	4394.6	4399.4	4408.8	4418.3	4432.4	4429.3	4424.6	4415.1	4394.6	4383.6	4371.0
25°	4575.8	4580.5	4604.1	4624.6	4629.3	4626.2	4619.9	4615.1	4596.2	4571.0	4561.6
27.5°	4786.8	4796.3	4827.8	4846.7	4846.7	4848.3	4835.7	4851.4	4810.5	4780.5	4777.4
30°	5051.5	5057.8	5084.5	5103.4	5094.0	5086.1	5083.0	5098.7	5054.6	5001.1	4988.5
32.5°	5312.9	5335.0	5358.6	5399.6	5366.5	5352.3	5349.2	5360.2	5309.8	5249.9	5232.6
35°	5593.3	5609.1	5653.2	5687.8	5657.9	5624.8	5639.0	5673.6	5613.8	5533.4	5530.3
37.5°	5903.6	5917.8	5974.5	6010.7	5988.7	5932.0	5955.6	5996.5	5936.7	5837.5	5817.0
40°	6226.5	6256.4	6327.3	6365.1	6328.9	6253.3	6297.4	6341.5	6287.9	6173.0	6127.3
42.5°	6588.8	6636.0	6738.4	6757.3	6688.0	6585.6	6662.8	6733.7	6695.9	6563.6	6546.3
45°	7012.5	7040.9	7166.9	7207.8	7111.7	6984.1	7080.2	7209.4	7181.0	7028.3	6995.2
47.5°	7486.6	7513.4	7644.1	7705.6	7584.3	7412.6	7585.9	7754.4	7737.1	7573.2	7557.5
50°	8047.4	8053.7	8234.8	8304.1	8182.8	8034.8	8189.1	8398.6	8329.3	8119.8	8116.7
52.5°	8661.7	8669.5	8897.9	9031.8	8964.1	8797.1	8979.8	9107.4	8931.0	8656.9	8636.5
55°	9194.1	9233.4	9545.3	9901.3	9994.2	9872.9	9928.1	9868.2	9433.5	9049.2	8989.3
57.5°	9411.4	9488.6	9962.7	10627.4	11232.3	11411.9	10986.6	10416.4	9633.5	9090.1	9031.8
60°	8880.6	8964.1	9699.7	10961.4	12505.0	13284.7	12089.2	10509.3	9178.3	8414.4	8323.0
62.5°	7111.7	7135.4	8217.5	10175.4	13246.9	15266.2	12553.8	9717.0	7853.6	6815.6	6779.4
64°	5117.6	5360.2	6506.9	8921.6	12922.4	16020.7	12286.1	8606.5	6379.3	5328.7	5158.6
65°	3827.6	3893.7	5245.2	7618.9	12350.6	15964.0	11766.3	7544.9	5283.0	4078.0	3889.0
67.5°	1446.0	1453.8	1935.8	3797.7	8792.4	13735.2	8979.8	4104.8	2225.7	1609.8	1551.5
70°	600.1	611.2	710.4	1277.4	3778.7	8819.2	4330.0	1480.6	814.3	660.0	650.5
72.5°	439.5	445.8	475.7	567.0	1162.4	3621.2	1423.9	628.5	477.3	426.9	422.1
75°	345.0	348.1	370.2	417.4	541.8	1003.4	592.3	431.6	363.9	327.6	324.5
77.5°	263.0	270.9	286.7	318.2	363.9	475.7	392.2	322.9	280.4	250.4	245.7
80°	181.1	190.6	220.5	233.1	244.1	308.7	267.8	244.1	218.9	182.7	171.7
82.5°	111.8	118.1	148.1	159.1	154.4	173.3	171.7	174.8	155.9	113.4	105.5
85°	58.3	61.4	80.3	83.5	77.2	70.9	88.2	102.4	96.1	64.6	63.0
87.5°	12.6	14.2	17.3	15.8	17.3	17.3	22.1	33.1	34.7	22.1	20.5
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)