

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: P454135

Luminaire Tested: **GALN-SA5B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454135
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-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24871 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

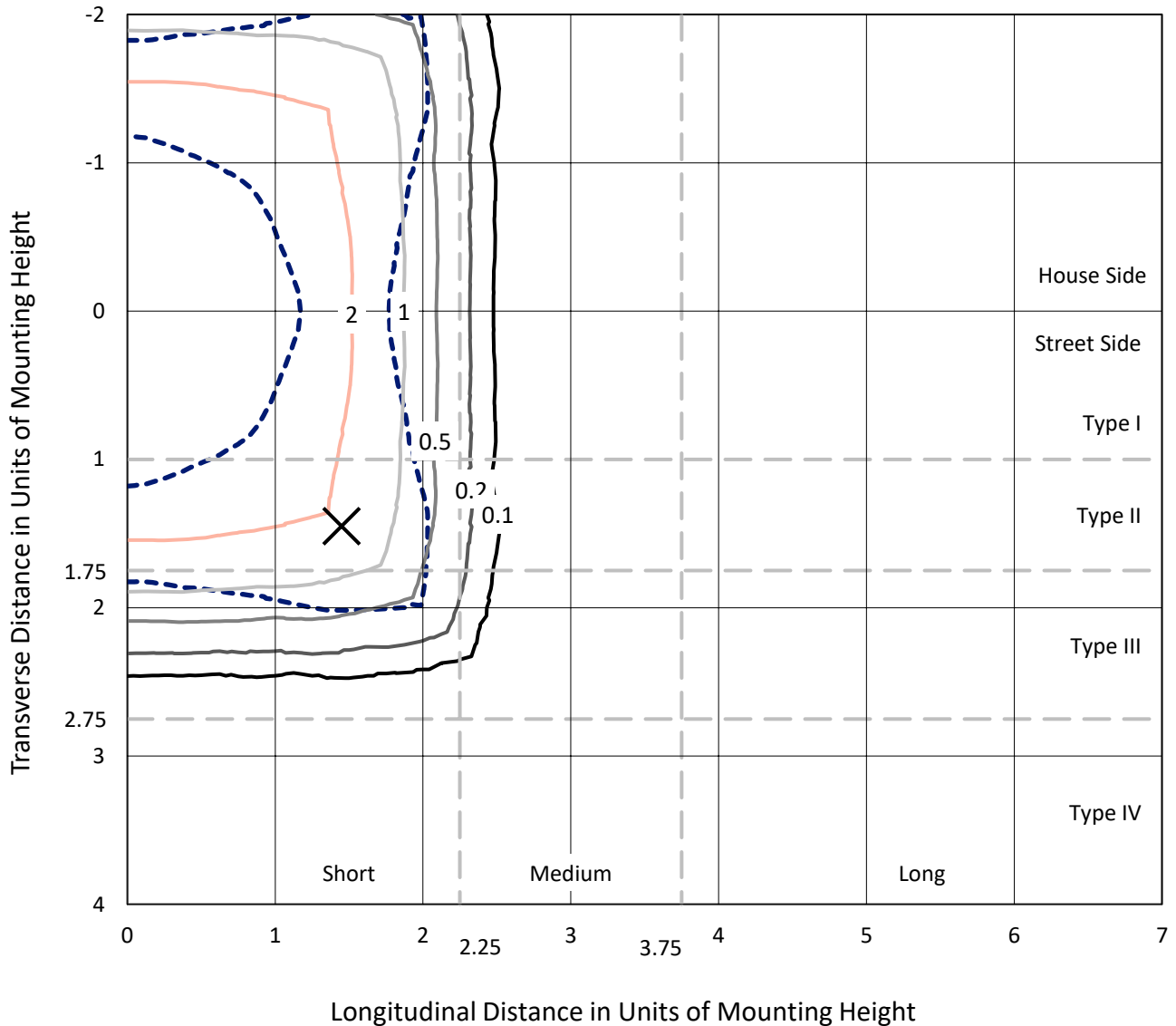
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

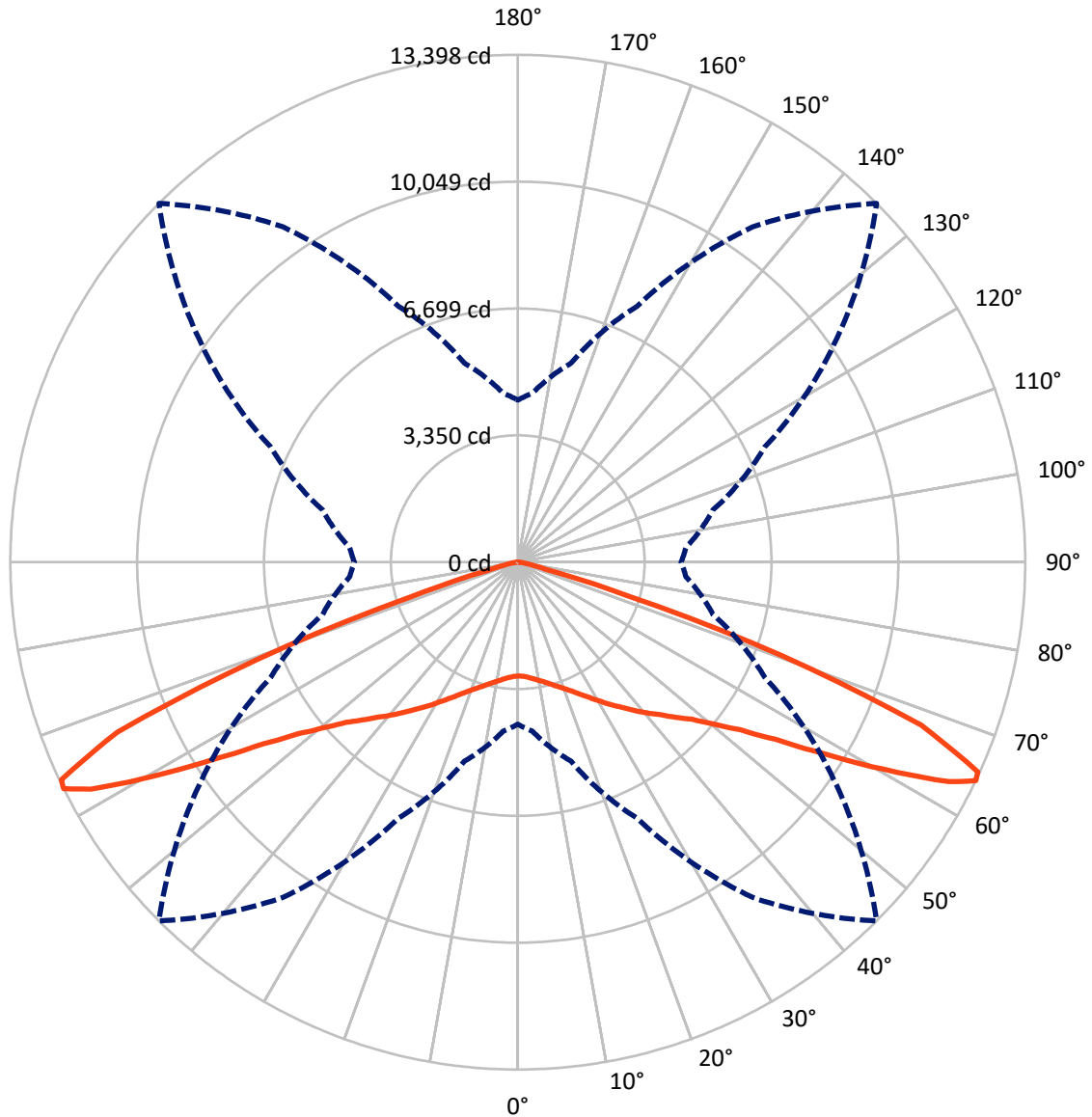
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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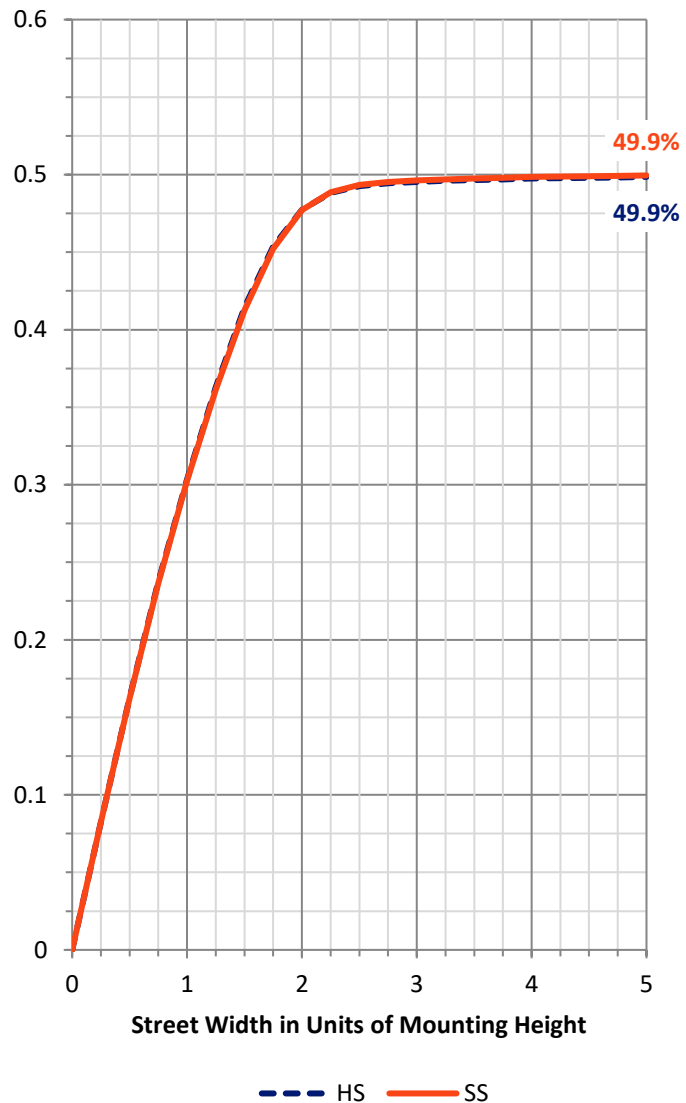
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12435.5	0.0	12435.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12435.5	0.0	12435.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24871.0	0.0	24871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.2
10°-20°	952.6	3.8
20°-30°	1800.2	7.2
30°-40°	2981.3	12.0
40°-50°	4654.3	18.7
50°-60°	7195.4	28.9
60°-70°	6204.5	24.9
70°-80°	703.1	2.8
80°-90°	84.2	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°	24871.0	100.0
0°-180°	24871.0	100.0

Coefficient of Utilization



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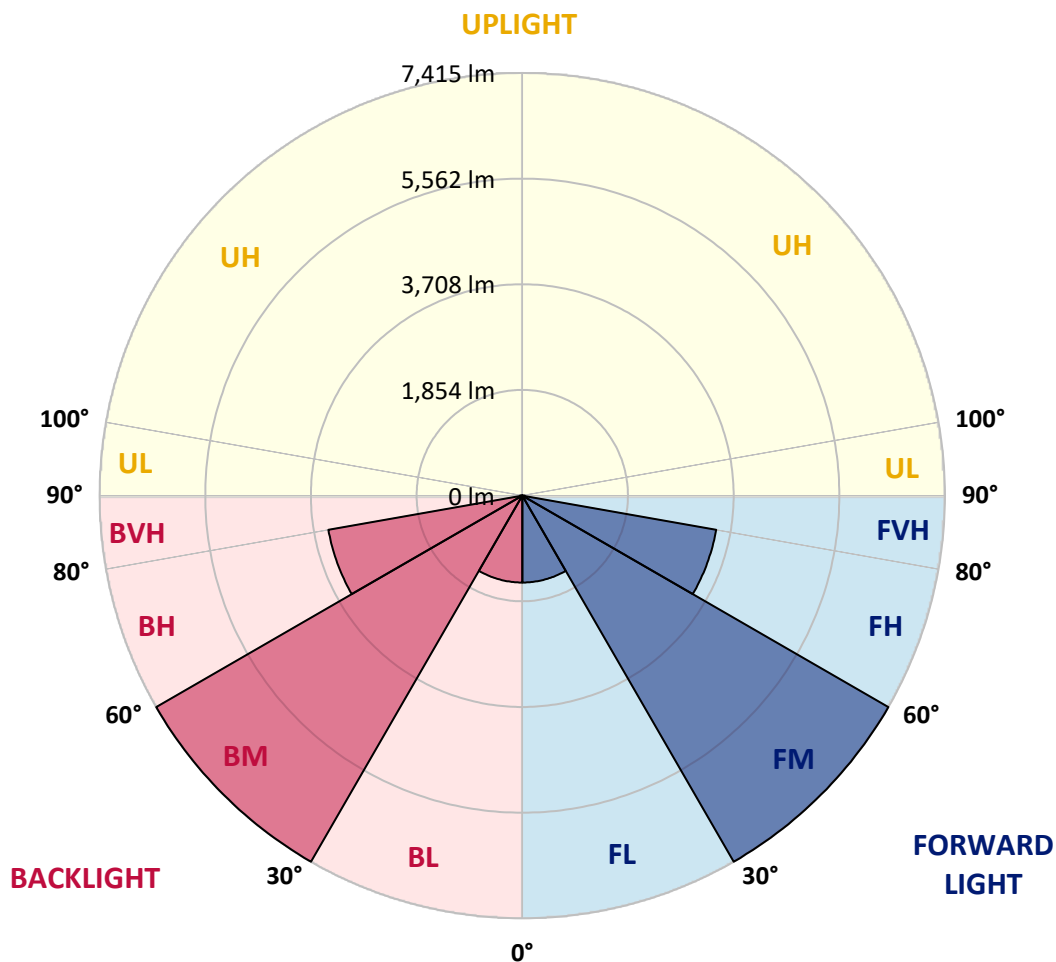
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1524.1	6.1			
FM	(30°-60°)	7415.5	29.8			
FH	(60°-80°)	3453.8	13.9			G2/5000
FVH	(80°-90°)	42.1	0.2			G1/100
BL	(0°-30°)	1524.1	6.1	B3/2500		
BM	(30°-60°)	7415.5	29.8	B4/8500		
BH	(60°-80°)	3453.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	42.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1	3006.1
2.5°	3017.9	3024.5	3019.3	3017.9	3016.6	3016.6	3016.6	3017.9	3023.2	3027.2	3024.5
5°	3056.1	3061.4	3058.8	3057.5	3056.1	3057.5	3054.8	3053.5	3057.5	3057.5	3056.1
7.5°	3103.6	3110.1	3107.5	3110.1	3111.5	3112.8	3106.2	3100.9	3099.6	3103.6	3100.9
10°	3168.1	3173.4	3174.7	3176.0	3178.6	3177.3	3169.4	3160.2	3158.9	3157.6	3156.3
12.5°	3240.6	3244.5	3245.8	3251.1	3255.0	3256.4	3247.1	3239.2	3226.1	3228.7	3223.4
15°	3322.2	3330.1	3328.8	3336.7	3347.3	3349.9	3340.7	3327.5	3315.6	3309.1	3305.1
17.5°	3422.3	3427.6	3425.0	3432.9	3446.1	3452.6	3444.7	3427.6	3415.8	3401.3	3393.4
20°	3540.9	3550.1	3552.8	3552.8	3564.6	3571.2	3559.3	3554.1	3535.6	3525.1	3518.5
22.5°	3675.3	3679.2	3687.1	3695.0	3706.9	3704.2	3700.3	3692.4	3675.3	3666.0	3655.5
25°	3826.8	3830.7	3850.5	3867.6	3871.5	3868.9	3863.6	3859.7	3843.9	3822.8	3814.9
27.5°	4003.3	4011.2	4037.5	4053.3	4053.3	4054.6	4044.1	4057.3	4023.0	3998.0	3995.4
30°	4224.6	4229.9	4252.2	4268.1	4260.1	4253.6	4250.9	4264.1	4227.2	4182.4	4171.9
32.5°	4443.3	4461.7	4481.5	4515.7	4488.0	4476.2	4473.6	4482.8	4440.6	4390.6	4376.1
35°	4677.7	4690.9	4727.8	4756.8	4731.7	4704.1	4715.9	4744.9	4694.9	4627.7	4625.0
37.5°	4937.2	4949.1	4996.5	5026.8	5008.4	4961.0	4980.7	5015.0	4964.9	4881.9	4864.8
40°	5207.3	5232.3	5291.6	5323.2	5292.9	5229.7	5266.6	5303.4	5258.7	5162.5	5124.3
42.5°	5510.3	5549.8	5635.4	5651.2	5593.3	5507.6	5572.2	5631.5	5599.8	5489.2	5474.7
45°	5864.6	5888.3	5993.7	6028.0	5947.6	5840.9	5921.3	6029.3	6005.6	5877.8	5850.1
47.5°	6261.1	6283.5	6392.9	6444.2	6342.8	6199.2	6344.1	6485.1	6470.6	6333.6	6320.4
50°	6730.1	6735.4	6886.8	6944.8	6843.4	6719.5	6848.6	7023.8	6965.9	6790.7	6788.0
52.5°	7243.8	7250.4	7441.4	7553.4	7496.8	7357.1	7509.9	7616.6	7469.1	7239.9	7222.8
55°	7689.1	7722.0	7982.8	8280.5	8358.3	8256.8	8302.9	8252.9	7889.3	7567.9	7517.8
57.5°	7870.9	7935.4	8331.9	8887.8	9393.7	9543.8	9188.2	8711.3	8056.6	7602.1	7553.4
60°	7426.9	7496.8	8111.9	9167.1	10458.0	11110.1	10110.3	8789.0	7675.9	7037.0	6960.6
62.5°	5947.6	5967.4	6872.4	8509.8	11078.5	12767.3	10498.9	8126.4	6568.1	5700.0	5669.7
64°	4279.9	4482.8	5441.8	7461.2	10807.1	13398.3	10274.9	7197.7	5335.1	4456.4	4314.2
65°	3201.0	3256.4	4386.6	6371.8	10328.9	13350.8	9840.2	6309.9	4418.2	3410.5	3252.4
67.5°	1209.3	1215.9	1619.0	3176.0	7353.2	11486.9	7509.9	3432.9	1861.3	1346.3	1297.5
70°	501.9	511.1	594.1	1068.3	3160.2	7375.6	3621.3	1238.3	681.0	551.9	544.0
72.5°	367.5	372.8	397.8	474.2	972.2	3028.5	1190.8	525.6	399.1	357.0	353.0
75°	288.5	291.1	309.6	349.1	453.2	839.1	495.3	360.9	304.3	274.0	271.4
77.5°	220.0	226.6	239.7	266.1	304.3	397.8	328.0	270.0	234.5	209.5	205.5
80°	151.5	159.4	184.4	195.0	204.2	258.2	223.9	204.2	183.1	152.8	143.6
82.5°	93.5	98.8	123.8	133.0	129.1	144.9	143.6	146.2	130.4	94.8	88.3
85°	48.7	51.4	67.2	69.8	64.5	59.3	73.8	85.6	80.4	54.0	52.7
87.5°	10.5	11.9	14.5	13.2	14.5	14.5	18.4	27.7	29.0	18.4	17.1
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)