

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: P529132

Luminaire Tested: **GALN-SA4B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18509 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

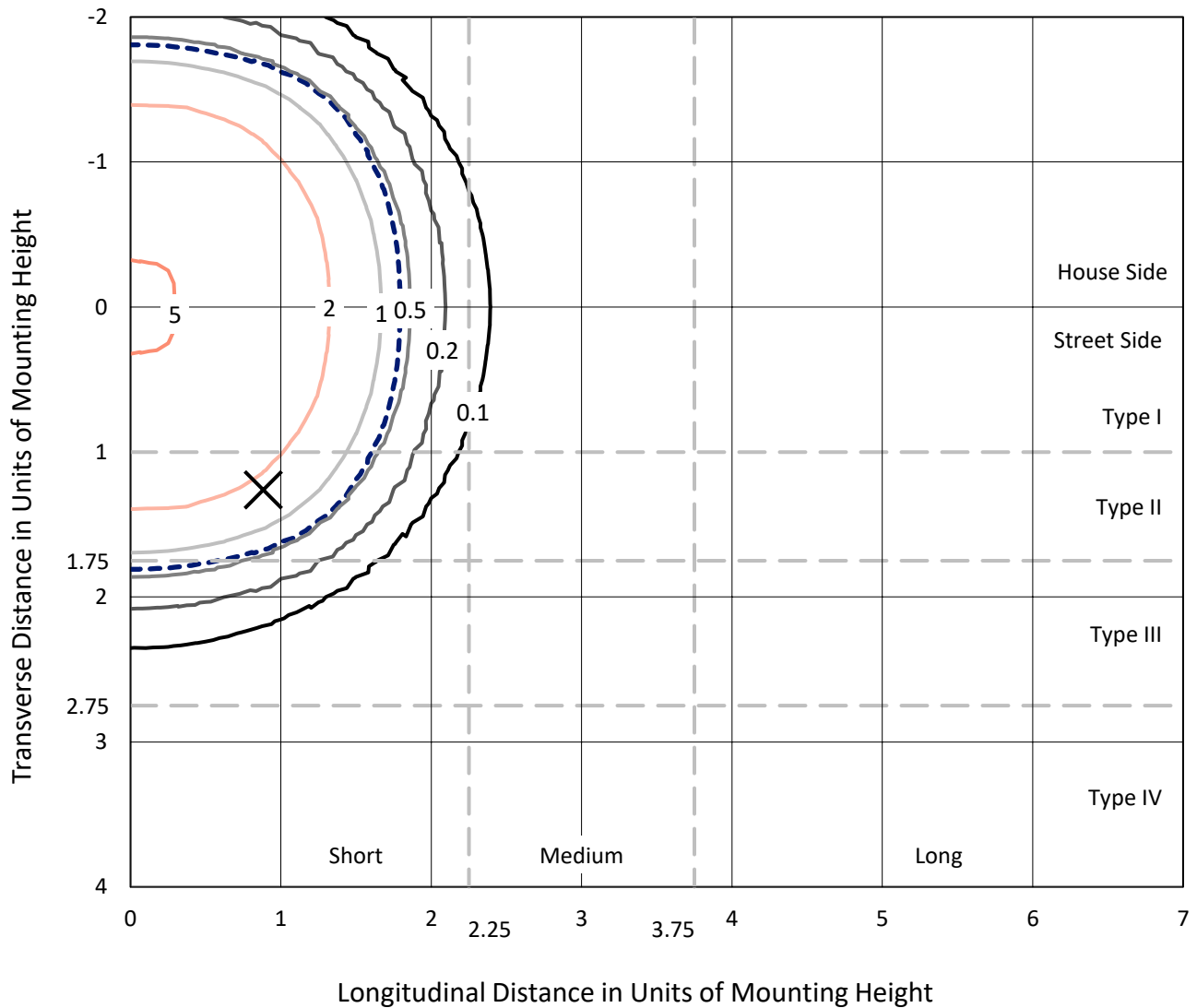
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529132
 CATALOG NUMBER: GALN-SA4B-735-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

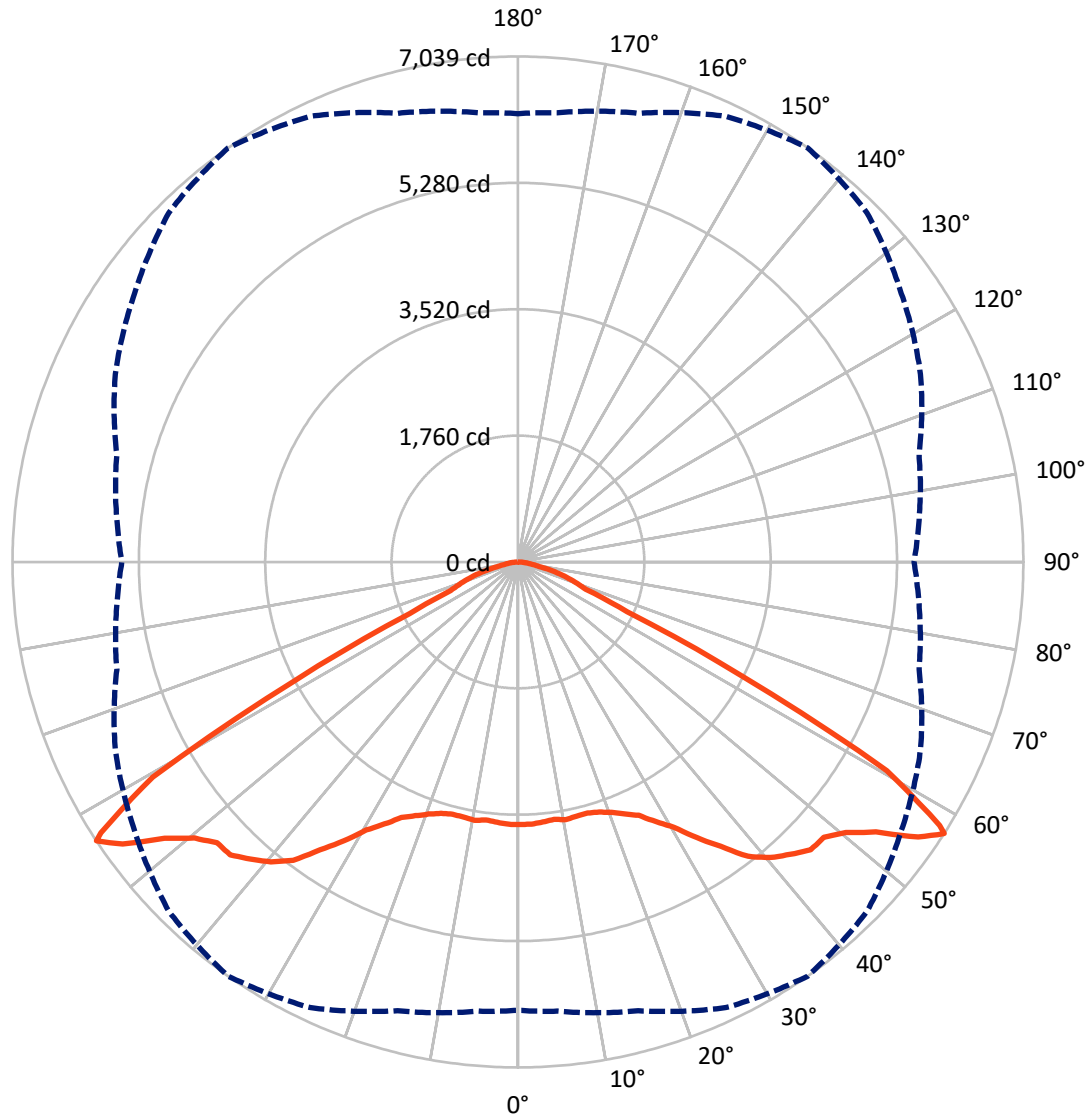
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P529132
CATALOG NUMBER: GALN-SA4B-735-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P529132
 CATALOG NUMBER: GALN-SA4B-735-U-5MQ-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9254.5	0.0	9254.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9254.5	0.0	9254.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18509.0	0.0	18509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.5	1.9
10°-20°	1026.4	5.5
20°-30°	1792.5	9.7
30°-40°	2937.1	15.9
40°-50°	4306.5	23.3
50°-60°	5424.4	29.3
60°-70°	2040.1	11.0
70°-80°	542.4	2.9
80°-90°	93.0	0.5
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°	18509.0	100.0
0°-180°	18509.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529132

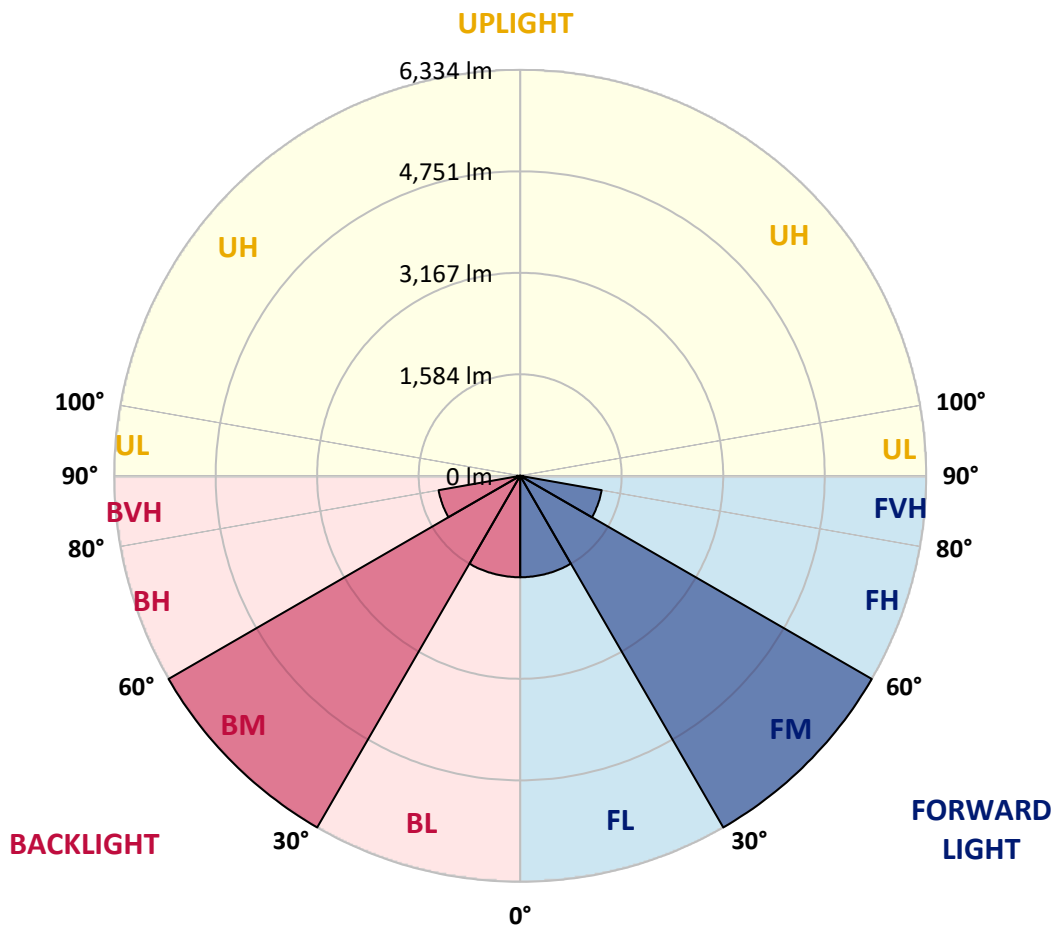
CATALOG NUMBER: GALN-SA4B-735-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.7	8.6			
FM (30°-60°)	6334.0	34.2			
FH (60°-80°)	1291.3	7.0			G1/1800
FVH (80°-90°)	46.5	0.3			G1/100
BL (0°-30°)	1582.7	8.6	B3/2500		
BM (30°-60°)	6334.0	34.2	B4/8500		
BH (60°-80°)	1291.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	46.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P529132

CATALOG NUMBER: GALN-SA4B-735-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4	3655.4
2.5°	3637.1	3673.6	3657.7	3648.6	3655.4	3644.0	3625.7	3646.3	3641.7	3623.5	3616.6
5°	3628.0	3655.4	3637.1	3655.4	3637.1	3669.1	3660.0	3625.7	3666.8	3628.0	3641.7
7.5°	3621.2	3630.3	3634.9	3625.7	3618.9	3657.7	3637.1	3621.2	3598.4	3591.5	3602.9
10°	3605.2	3628.0	3593.8	3639.4	3648.6	3621.2	3621.2	3591.5	3573.3	3561.9	3600.7
12.5°	3646.3	3607.5	3602.9	3625.7	3632.6	3644.0	3612.1	3596.1	3561.9	3566.5	3559.6
15°	3598.4	3614.3	3616.6	3621.2	3628.0	3655.4	3625.7	3591.5	3577.9	3530.0	3534.5
17.5°	3616.6	3600.7	3616.6	3669.1	3660.0	3680.5	3648.6	3596.1	3564.2	3536.8	3573.3
20°	3648.6	3641.7	3648.6	3712.4	3723.8	3742.0	3714.7	3666.8	3605.2	3573.3	3591.5
22.5°	3682.8	3678.2	3682.8	3744.3	3810.5	3833.3	3805.9	3694.2	3662.2	3602.9	3582.4
25°	3744.3	3748.9	3796.8	3865.2	3908.5	3951.8	3901.7	3821.9	3719.2	3682.8	3639.4
27.5°	3881.1	3892.5	3919.9	4020.2	4095.5	4134.3	4063.6	3954.1	3890.3	3815.0	3803.6
30°	4049.9	4049.9	4097.8	4184.4	4287.0	4346.3	4259.7	4129.7	4052.2	4011.1	3986.0
32.5°	4273.4	4248.3	4266.5	4419.3	4578.9	4629.1	4512.8	4353.2	4230.0	4175.3	4157.1
35°	4464.9	4480.9	4521.9	4686.1	4864.0	4980.3	4797.8	4590.3	4464.9	4414.7	4405.6
37.5°	4713.5	4740.8	4761.4	4987.1	5201.5	5244.8	5069.2	4902.7	4750.0	4708.9	4686.1
40°	5064.6	5046.4	5053.2	5219.7	5413.5	5440.9	5267.6	5149.0	5023.6	4998.5	4998.5
42.5°	5354.2	5333.7	5356.5	5418.1	5566.3	5545.8	5450.0	5363.4	5310.9	5283.6	5310.9
45°	5529.8	5525.3	5566.3	5611.9	5716.8	5648.4	5573.2	5586.8	5536.7	5491.1	5488.8
47.5°	5721.4	5691.7	5741.9	5810.3	5730.5	5698.6	5694.0	5723.7	5707.7	5627.9	5602.8
50°	5814.9	5803.5	5883.3	5963.1	5919.8	5846.8	5862.8	5910.7	5705.4	5598.2	5536.7
52.5°	6065.7	6068.0	6220.8	6264.1	6245.9	6138.7	6172.9	6042.9	5801.2	5650.7	5657.5
55°	6460.2	6444.3	6615.3	6743.0	6763.5	6626.7	6462.5	6280.1	5976.8	5824.0	5778.4
57°	6243.6	6280.1	6469.3	6847.9	7039.4	6877.5	6519.5	6186.6	5783.0	5598.2	5516.2
57.5°	5954.0	6013.3	6341.6	6722.5	6923.1	6909.4	6448.8	6013.3	5653.0	5365.6	5372.5
60°	4362.3	4373.7	4670.1	5274.4	5901.5	5915.2	5354.2	4777.3	4376.0	4063.6	4106.9
62.5°	2300.9	2353.3	2471.9	2957.6	3500.3	3632.6	3292.8	2996.4	2649.8	2412.6	2435.4
65°	1217.7	1210.9	1267.9	1404.7	1671.5	1739.9	1694.3	1459.4	1338.6	1299.8	1302.1
67.5°	989.7	1001.1	994.2	1001.1	1019.3	1049.0	1042.1	1051.2	1058.1	1069.5	1067.2
70°	839.2	839.2	843.7	846.0	846.0	859.7	875.7	905.3	907.6	919.0	923.5
72.5°	661.3	656.7	663.6	679.5	681.8	693.2	716.0	734.3	741.1	741.1	727.4
75°	449.2	453.8	462.9	476.6	490.3	510.8	529.0	540.4	545.0	538.2	531.3
77.5°	253.1	257.7	264.5	285.0	301.0	319.2	339.8	351.2	362.6	364.9	351.2
80°	150.5	150.5	161.9	177.9	196.1	214.4	232.6	246.3	250.8	250.8	244.0
82.5°	91.2	93.5	102.6	118.6	134.5	145.9	161.9	173.3	182.4	180.1	175.6
85°	47.9	47.9	57.0	70.7	82.1	93.5	93.5	86.7	82.1	70.7	66.1
87.5°	16.0	13.7	18.2	18.2	16.0	18.2	18.2	20.5	20.5	20.5	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)