

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: P651275

Luminaire Tested: **GALN-SA3D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16476.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

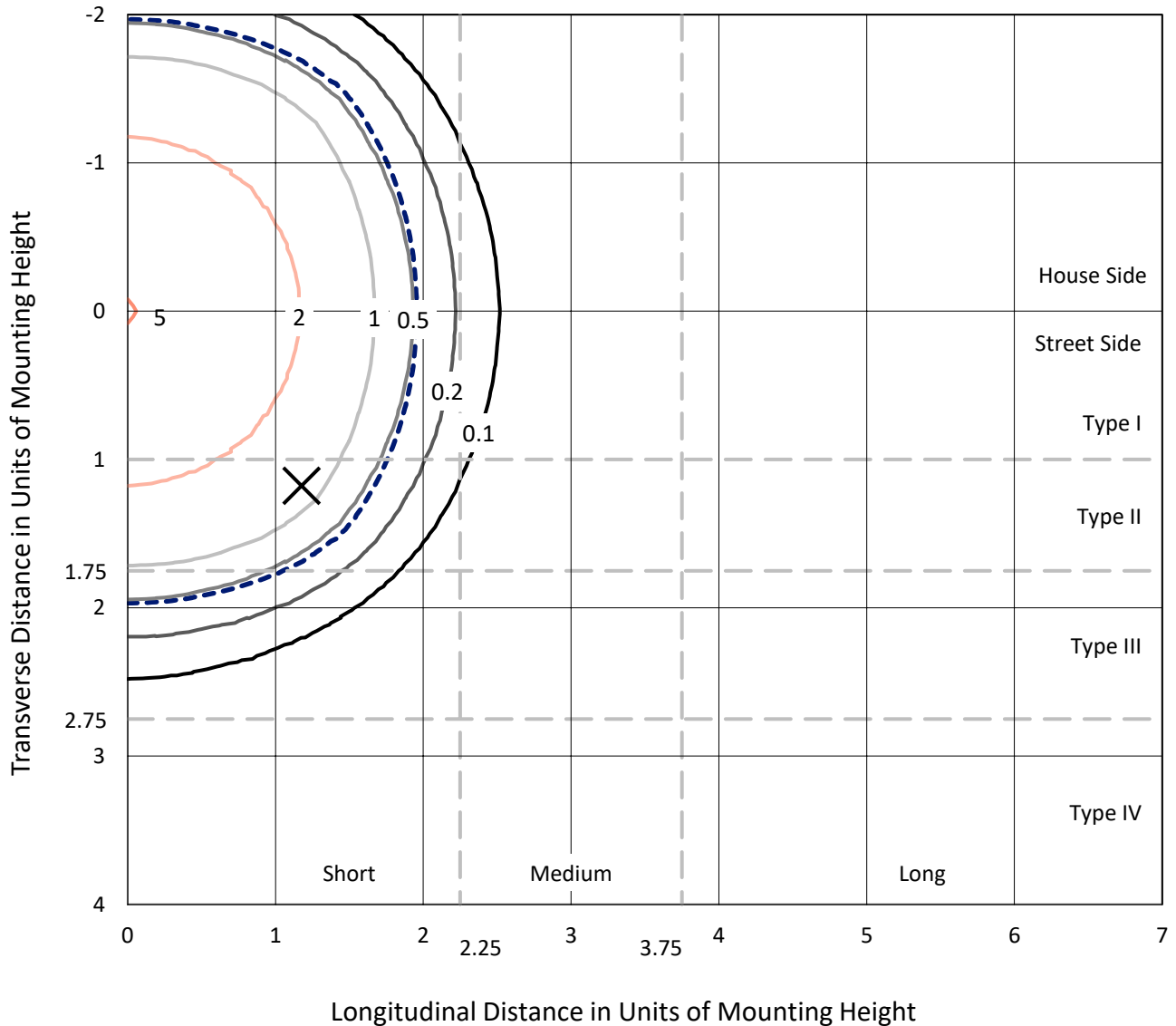
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651275
 CATALOG NUMBER: GALN-SA3D-840-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

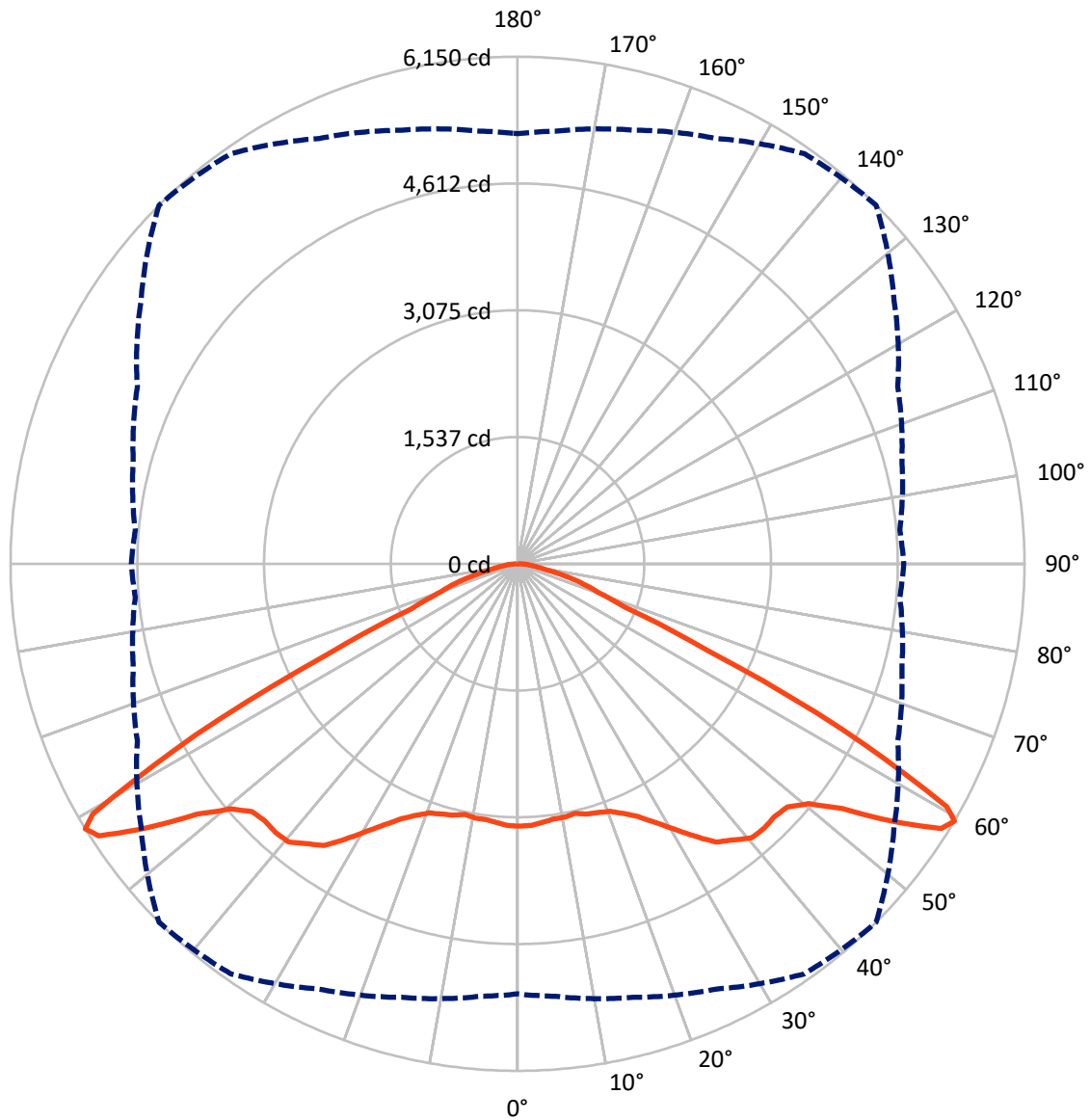
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P651275
CATALOG NUMBER: GALN-SA3D-840-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P651275
 CATALOG NUMBER: GALN-SA3D-840-U-5WQ-GRSWH

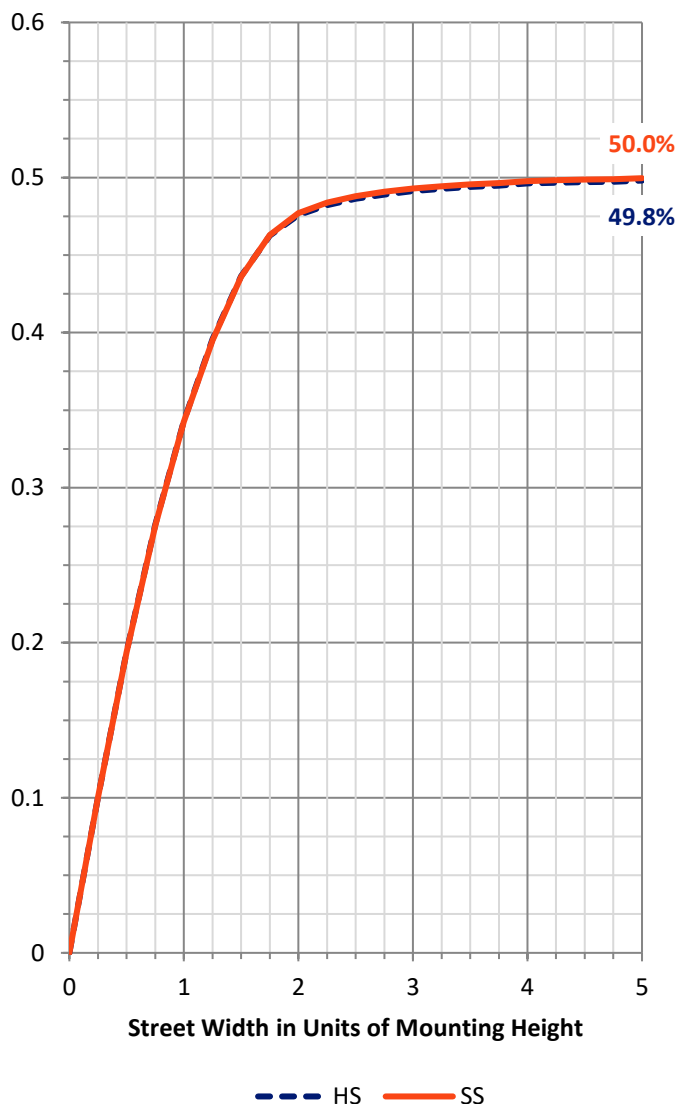
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8238.4	0.0	8238.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8238.4	0.0	8238.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16476.9	0.0	16476.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.0	1.8
10°-20°	892.2	5.4
20°-30°	1557.9	9.5
30°-40°	2488.1	15.1
40°-50°	3389.3	20.6
50°-60°	4583.3	27.8
60°-70°	2513.5	15.3
70°-80°	643.0	3.9
80°-90°	109.7	0.7
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°	16476.9	100.0
0°-180°	16476.9	100.0

Coefficient of Utilization

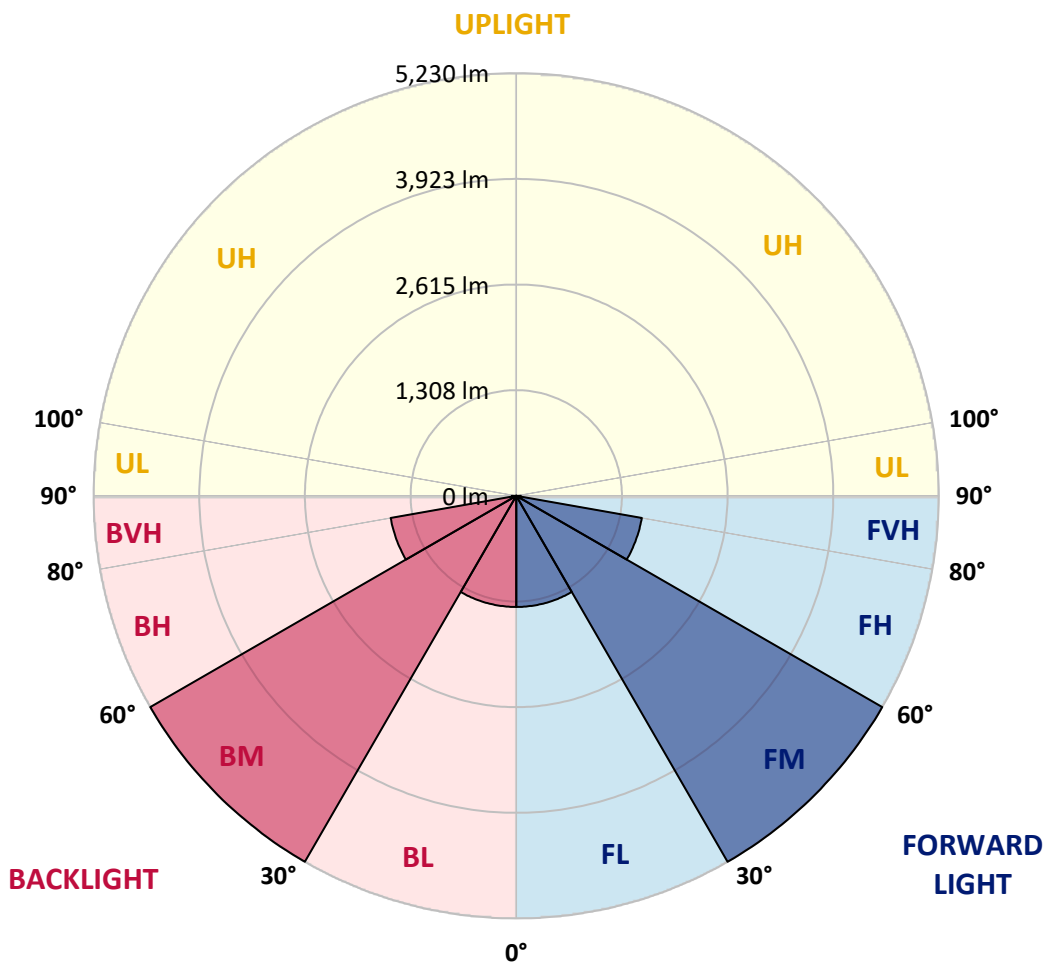


REPORT NUMBER: P651275
 CATALOG NUMBER: GALN-SA3D-840-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.0	8.3			
FM (30°-60°)	5230.3	31.7			
FH (60°-80°)	1578.2	9.6			G1/1800
FVH (80°-90°)	54.8	0.3			G1/100
BL (0°-30°)	1375.0	8.3	B3/2500		
BM (30°-60°)	5230.3	31.7	B4/8500		
BH (60°-80°)	1578.2	9.6	B3/2500		G1/1800
BVH (80°-90°)	54.8	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: P651275

CATALOG NUMBER: GALN-SA3D-840-U-5WQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5	3182.5
2.5°	3163.5	3186.8	3169.9	3184.6	3182.5	3176.2	3165.6	3159.3	3150.9	3163.5	3142.4
5°	3150.9	3169.9	3188.9	3163.5	3163.5	3150.9	3144.5	3131.9	3131.9	3129.8	3127.6
7.5°	3172.0	3153.0	3144.5	3148.8	3153.0	3125.5	3144.5	3119.2	3098.1	3112.9	3129.8
10°	3153.0	3161.4	3129.8	3144.5	3121.3	3125.5	3112.9	3129.8	3106.5	3106.5	3106.5
12.5°	3172.0	3148.8	3159.3	3148.8	3142.4	3106.5	3123.4	3104.4	3102.3	3123.4	3104.4
15°	3210.0	3172.0	3163.5	3142.4	3148.8	3148.8	3131.9	3134.0	3110.8	3123.4	3127.6
17.5°	3197.3	3176.2	3169.9	3144.5	3165.6	3172.0	3140.3	3119.2	3134.0	3131.9	3129.8
20°	3207.9	3216.3	3210.0	3214.2	3222.6	3205.8	3176.2	3146.6	3127.6	3155.1	3153.0
22.5°	3275.4	3267.0	3262.8	3258.5	3273.3	3290.2	3250.1	3203.6	3203.6	3222.6	3231.1
25°	3330.4	3328.3	3326.2	3345.2	3395.9	3395.9	3345.2	3286.0	3271.2	3283.9	3273.3
27.5°	3410.6	3433.9	3425.4	3459.2	3533.1	3550.0	3482.4	3412.7	3372.6	3357.9	3376.9
30°	3594.3	3566.9	3573.2	3609.2	3674.6	3729.5	3626.1	3552.1	3497.2	3495.1	3503.5
32.5°	3716.8	3738.0	3757.0	3790.7	3894.3	3936.5	3811.8	3691.5	3657.7	3638.7	3645.1
35°	3961.8	3942.8	3938.6	3972.4	4075.8	4145.5	3989.3	3883.7	3839.3	3881.6	3881.6
37.5°	4194.2	4141.3	4101.2	4145.5	4240.6	4249.0	4115.9	4058.9	4035.7	4084.3	4082.2
40°	4303.9	4299.7	4206.8	4232.2	4358.8	4371.5	4246.9	4179.3	4175.1	4238.5	4301.8
42.5°	4417.9	4377.8	4284.9	4301.8	4379.9	4384.2	4265.9	4246.9	4293.4	4354.6	4358.8
45°	4436.9	4403.2	4344.0	4301.8	4358.8	4371.5	4301.8	4314.5	4318.7	4392.6	4392.6
47.5°	4475.0	4470.8	4436.9	4405.3	4415.8	4405.3	4360.9	4379.9	4443.3	4479.3	4462.3
50°	4580.6	4536.3	4570.0	4542.6	4544.7	4574.3	4534.1	4553.1	4540.5	4508.8	4487.7
52.5°	4812.9	4791.8	4821.4	4840.4	4861.5	4929.0	4882.6	4781.2	4686.1	4601.7	4599.6
55°	5152.9	5167.7	5224.7	5321.8	5404.2	5511.9	5288.0	5045.2	4893.1	4760.1	4768.6
57.5°	5473.9	5463.3	5541.4	5763.2	6004.0	6058.9	5619.6	5273.2	5026.2	4941.7	4905.8
59°	5216.2	5266.9	5444.3	5691.4	6069.4	6149.6	5575.2	5087.5	4825.6	4654.5	4684.0
60°	4810.8	4829.8	4988.1	5332.4	5843.4	5980.8	5277.5	4800.2	4451.7	4352.5	4396.8
62.5°	3400.1	3385.3	3499.3	3780.2	4238.5	4424.3	3923.8	3588.0	3368.4	3258.5	3283.9
65°	1807.7	1875.3	1921.8	2097.0	2339.9	2536.3	2329.4	2183.7	2061.1	1970.4	1968.3
67.5°	1220.6	1212.2	1222.7	1262.8	1345.3	1400.2	1395.9	1322.1	1311.5	1294.6	1313.6
70°	1028.5	1024.3	1005.2	1005.2	1022.2	1034.8	1049.6	1058.1	1075.0	1096.1	1094.0
72.5°	834.2	823.6	811.0	804.6	825.7	832.1	851.1	859.5	874.3	872.2	891.2
75°	551.2	551.2	566.0	582.9	589.2	601.9	604.0	629.3	629.3	633.5	616.6
77.5°	308.3	299.9	310.4	327.3	342.1	365.3	388.5	407.5	418.1	413.9	413.9
80°	179.5	179.5	190.1	209.1	228.1	249.2	266.1	280.9	291.4	287.2	278.8
82.5°	111.9	111.9	122.4	141.5	156.3	169.0	192.2	211.2	223.9	219.7	209.1
85°	57.0	57.0	69.7	82.3	101.3	109.8	107.7	99.2	97.1	86.6	86.6
87.5°	14.8	14.8	21.1	23.2	19.0	21.1	21.1	21.1	21.1	21.1	23.2
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)