

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: P651272

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17493.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

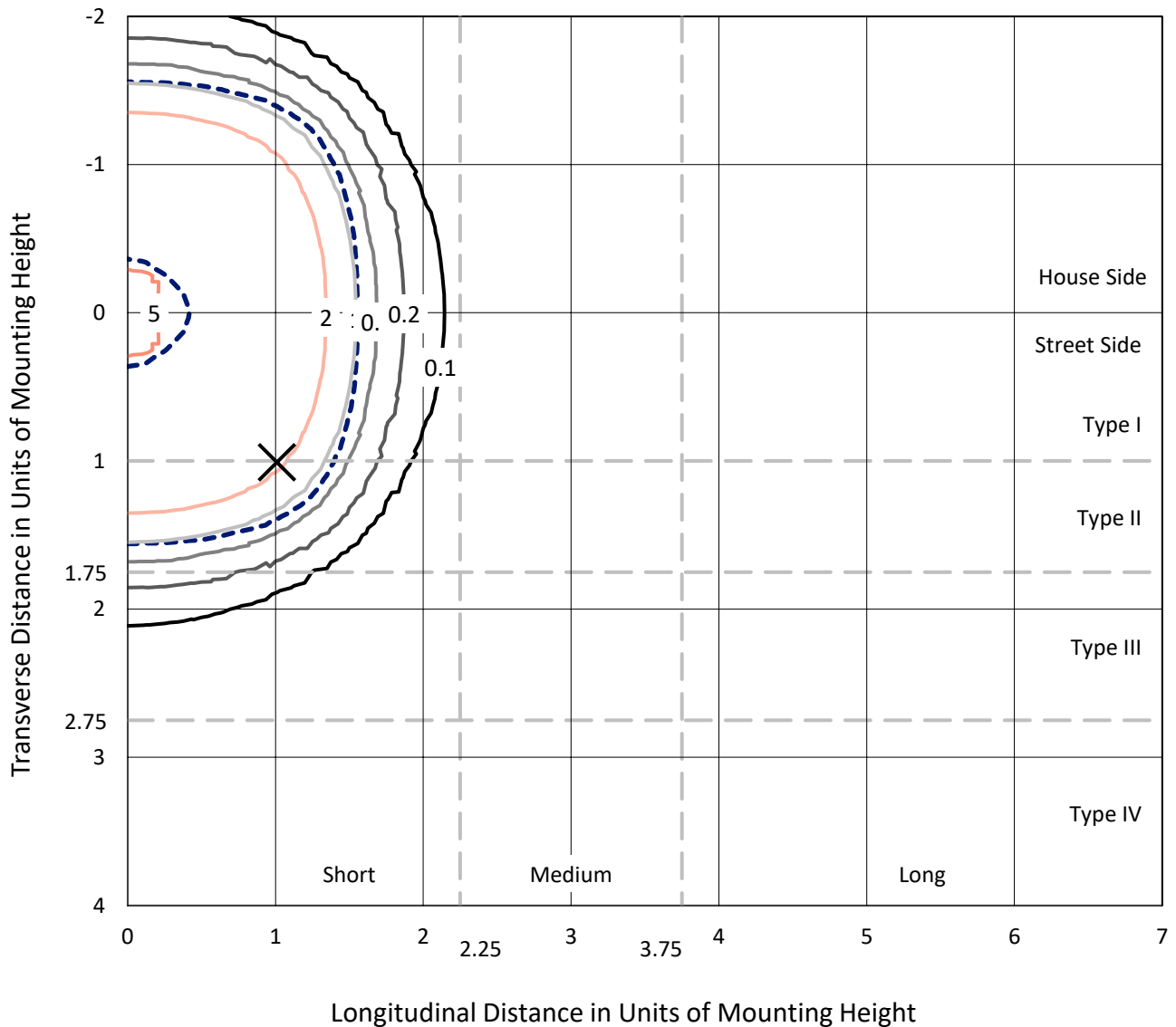




REPORT NUMBER: P651272  
 CATALOG NUMBER: GALN-SA3D-840-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

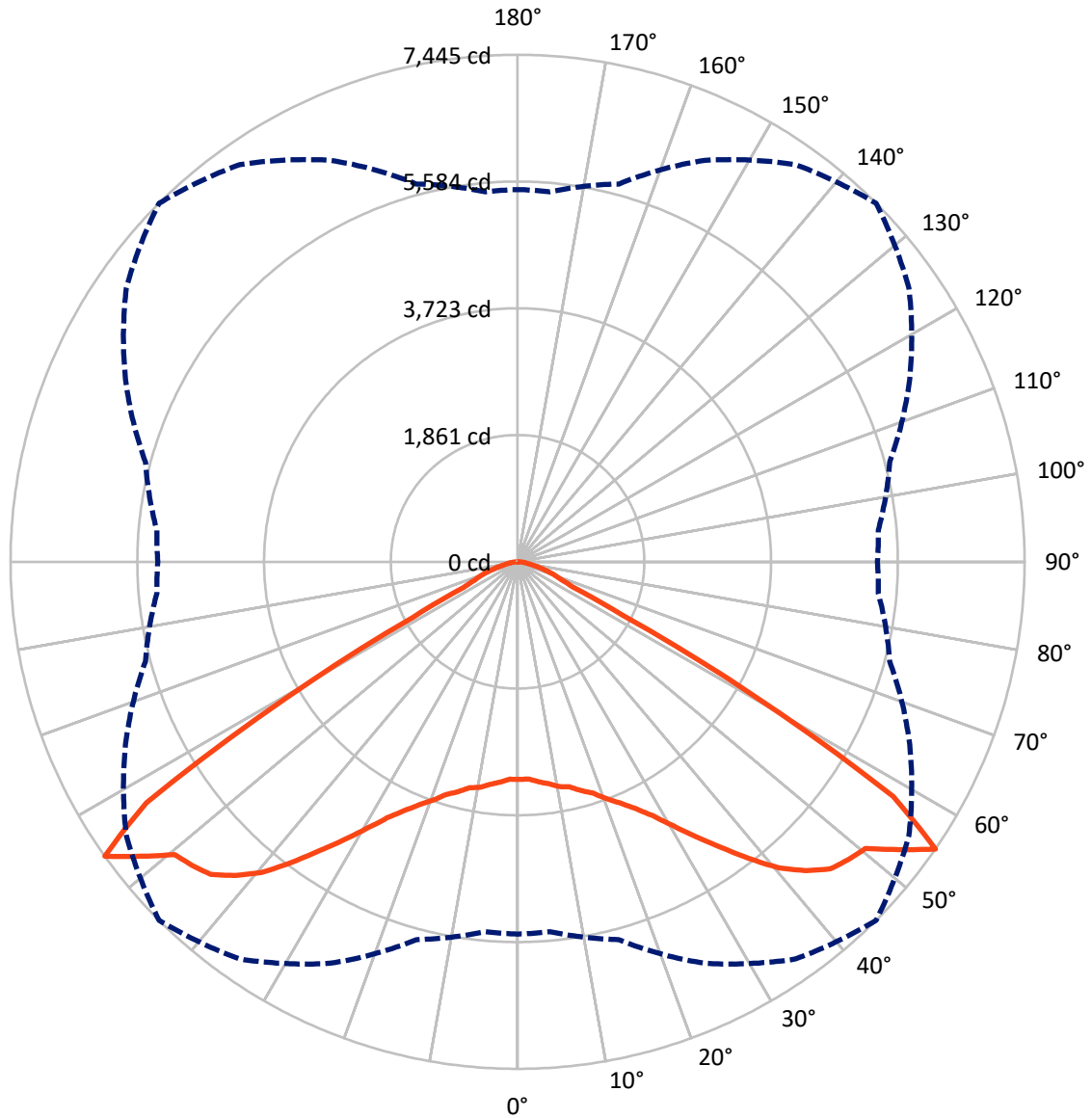
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P651272  
CATALOG NUMBER: GALN-SA3D-840-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P651272  
 CATALOG NUMBER: GALN-SA3D-840-U-5NQ-GRSWH

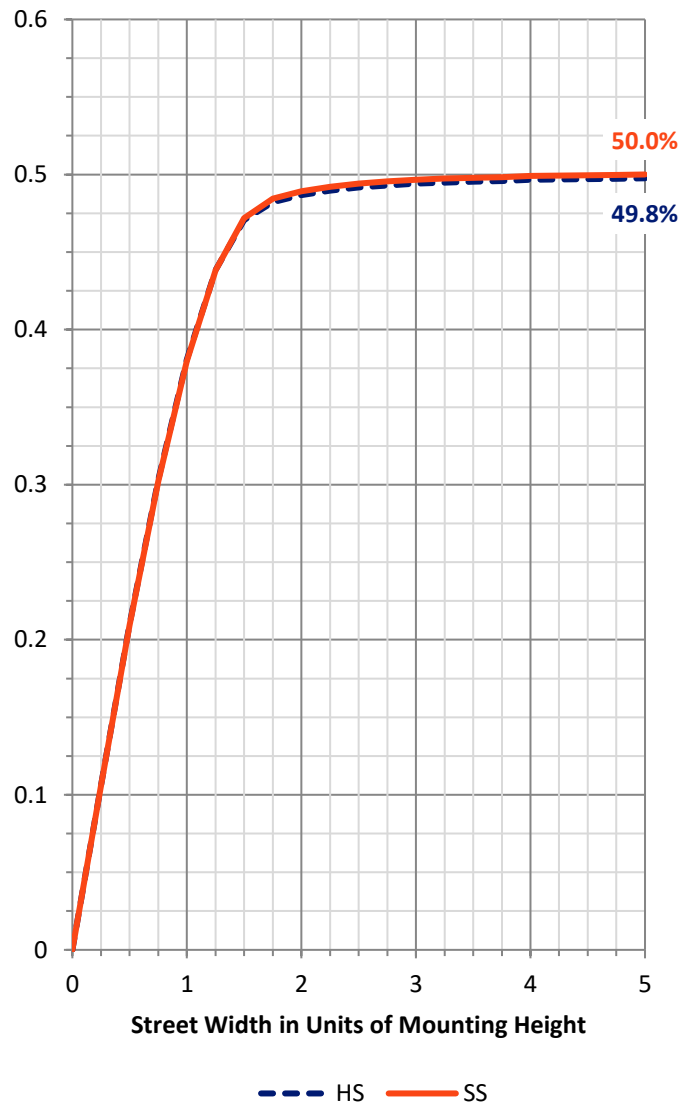
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8746.8	0.0	8746.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8746.8	0.0	8746.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17493.6	0.0	17493.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.0	1.8
10°-20°	988.7	5.7
20°-30°	1843.6	10.5
30°-40°	3086.7	17.6
40°-50°	4803.2	27.5
50°-60°	4987.2	28.5
60°-70°	1057.6	6.0
70°-80°	348.3	2.0
80°-90°	66.3	0.4
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°	17493.6	100.0
0°-180°	17493.6	100.0

**Coefficient of Utilization**



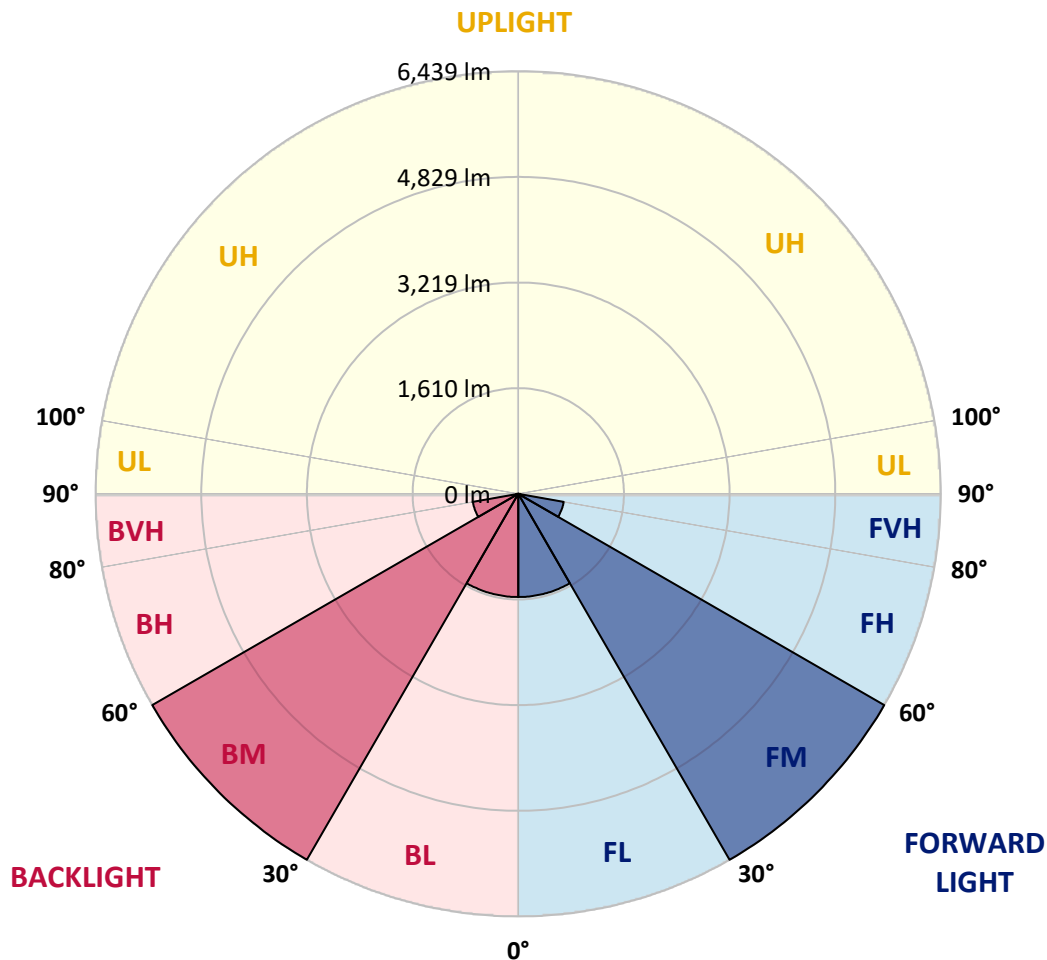
REPORT NUMBER: P651272  
 CATALOG NUMBER: GALN-SA3D-840-U-5NQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.1	9.0			
FM (30°-60°)	6438.6	36.8			
FH (60°-80°)	703.0	4.0			G1/1800
FVH (80°-90°)	33.2	0.2			G1/100
BL (0°-30°)	1572.1	9.0	B3/2500		
BM (30°-60°)	6438.6	36.8	B4/8500		
BH (60°-80°)	703.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	33.2	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-G1**

Type V Short





REPORT NUMBER: P651272

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1	3194.1
2.5°	3232.1	3217.3	3191.9	3211.0	3225.8	3194.1	3206.7	3213.1	3208.8	3191.9	3198.3
5°	3278.6	3270.1	3249.0	3263.8	3244.8	3244.8	3232.1	3215.2	3240.6	3236.3	3246.9
7.5°	3278.6	3268.0	3310.3	3282.8	3291.3	3291.3	3270.1	3253.2	3265.9	3246.9	3236.3
10°	3344.2	3359.0	3339.9	3346.3	3342.0	3356.9	3325.1	3314.5	3304.0	3297.6	3284.9
12.5°	3422.4	3411.8	3418.2	3414.0	3428.8	3390.7	3371.7	3348.4	3367.4	3339.9	3359.0
15°	3485.8	3479.5	3485.8	3502.7	3487.9	3485.8	3452.0	3428.8	3399.2	3405.5	3375.9
17.5°	3572.5	3566.1	3568.2	3583.0	3580.9	3570.4	3545.0	3500.6	3490.0	3473.1	3454.1
20°	3701.4	3690.8	3686.6	3692.9	3703.5	3712.0	3661.2	3644.3	3608.4	3580.9	3549.2
22.5°	3811.3	3807.1	3824.0	3796.5	3819.8	3845.1	3796.5	3788.1	3699.3	3684.5	3650.7
25°	3963.5	3957.2	3946.6	3986.8	4014.3	4012.2	3965.7	3919.1	3851.5	3834.6	3834.6
27.5°	4124.2	4088.3	4143.2	4153.8	4202.4	4217.2	4177.0	4109.4	4046.0	4010.1	4018.5
30°	4325.0	4291.2	4303.9	4379.9	4443.4	4498.3	4396.9	4297.5	4208.7	4145.3	4134.8
32.5°	4525.8	4492.0	4530.0	4604.1	4730.9	4813.3	4714.0	4540.6	4437.0	4344.0	4363.0
35°	4688.6	4714.0	4775.3	4887.3	5018.3	5151.5	4993.0	4859.8	4711.9	4608.3	4623.1
37.5°	4950.7	5028.9	5077.5	5206.5	5392.5	5529.9	5365.1	5191.7	5033.1	4897.9	4851.4
40°	5293.2	5346.0	5401.0	5553.2	5773.0	5910.4	5754.0	5527.8	5371.4	5231.9	5225.6
42.5°	5669.4	5720.1	5777.2	5963.3	6094.3	6197.9	6054.2	5933.7	5760.3	5650.4	5644.0
45°	6107.0	6071.1	6134.5	6257.1	6367.0	6434.7	6341.6	6282.4	6157.7	6056.3	6045.7
47.5°	6398.7	6367.0	6481.2	6591.1	6608.0	6534.0	6553.1	6608.0	6477.0	6309.9	6362.8
50°	6567.9	6567.9	6643.9	6745.4	6713.7	6618.6	6768.6	6772.9	6641.8	6493.9	6493.9
52.5°	6274.0	6339.5	6555.2	6887.0	6992.7	7020.2	6986.4	6842.6	6500.2	6197.9	6183.1
55°	5466.5	5451.7	5743.4	6504.4	7119.6	7445.1	7013.9	6352.2	5656.7	5316.4	5282.6
57.5°	3555.6	3572.5	4008.0	4783.7	5893.5	6500.2	5773.0	4842.9	4008.0	3538.7	3583.0
60°	1600.2	1657.3	1921.5	2500.7	3454.1	3948.7	3462.6	2627.5	2016.6	1750.3	1773.6
62.5°	919.5	930.1	940.7	1116.1	1471.2	1739.7	1528.3	1179.6	1040.1	993.6	993.6
65°	775.8	769.4	771.5	786.3	824.4	879.3	856.1	824.4	828.6	824.4	818.0
67.5°	659.5	668.0	661.6	672.2	674.3	682.8	697.6	710.2	712.4	716.6	712.4
70°	541.2	543.3	547.5	556.0	558.1	564.4	585.5	596.1	602.5	602.5	610.9
72.5°	414.4	412.2	416.5	424.9	435.5	437.6	456.6	471.4	479.9	469.3	471.4
75°	272.7	274.8	281.1	287.5	302.3	317.1	323.4	338.3	340.4	344.6	334.0
77.5°	162.7	167.0	173.3	186.0	198.7	211.4	226.1	236.7	240.9	236.7	224.0
80°	105.7	105.7	114.1	124.7	139.5	150.1	158.5	167.0	173.3	167.0	162.7
82.5°	65.5	65.5	76.1	88.8	99.3	105.7	118.4	128.9	135.3	131.0	124.7
85°	33.8	35.9	44.4	55.0	63.4	67.6	65.5	59.2	52.8	50.7	46.5
87.5°	10.6	10.6	12.7	12.7	10.6	10.6	12.7	10.6	12.7	12.7	12.7
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)