

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: P647588

Luminaire Tested: **GALN-SA8D-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647588  
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-SA8D-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51046.1 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

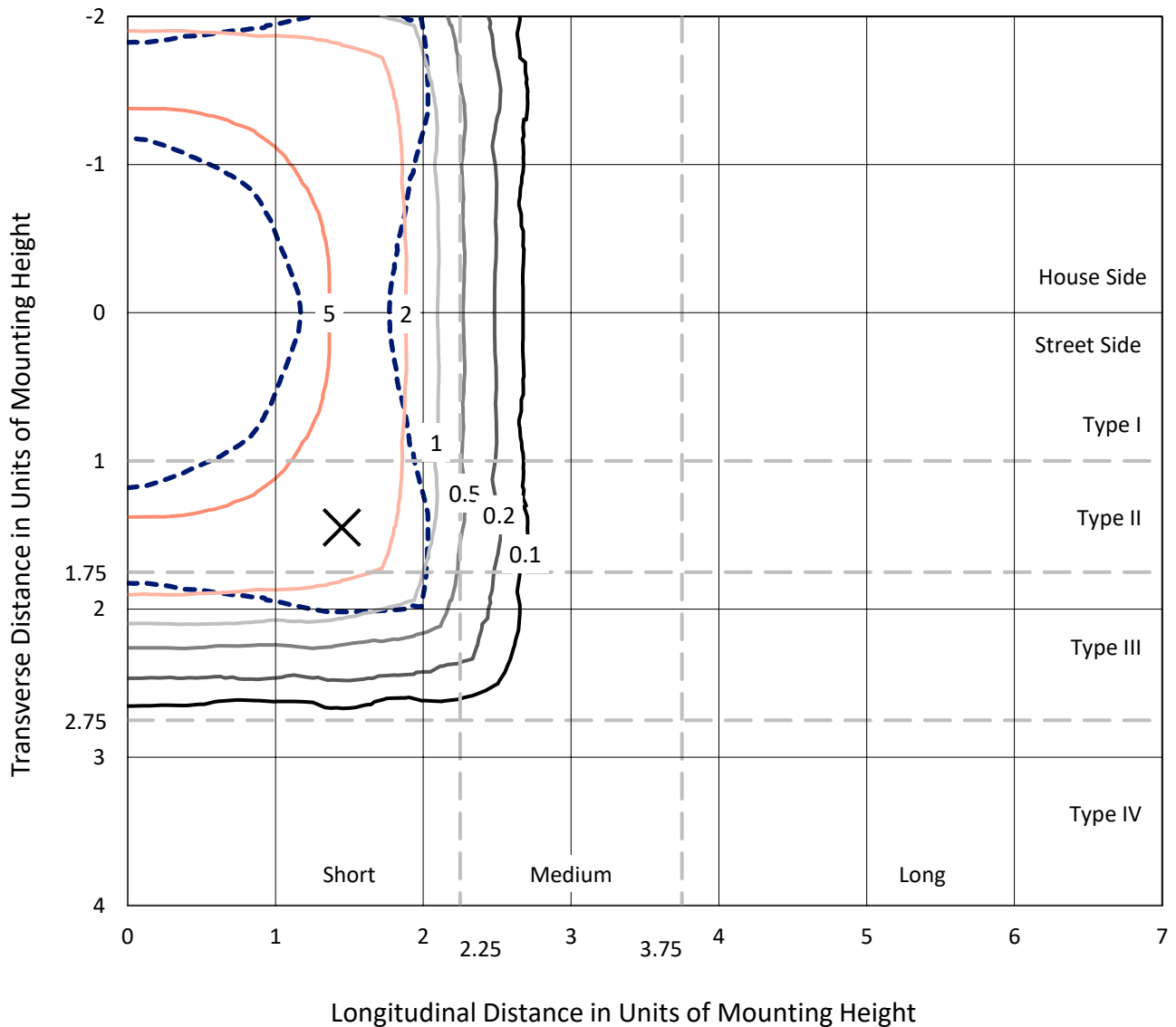
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

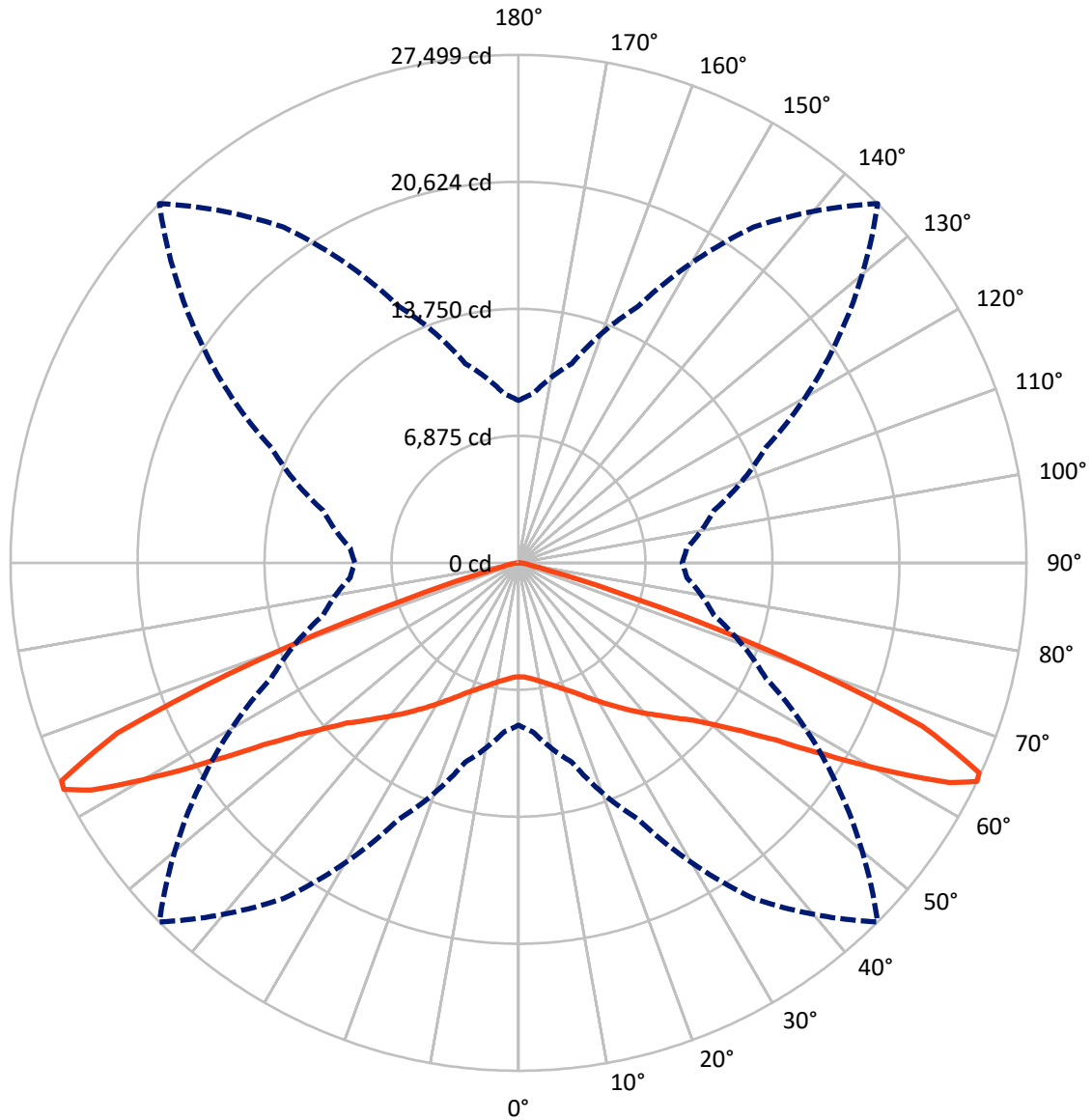
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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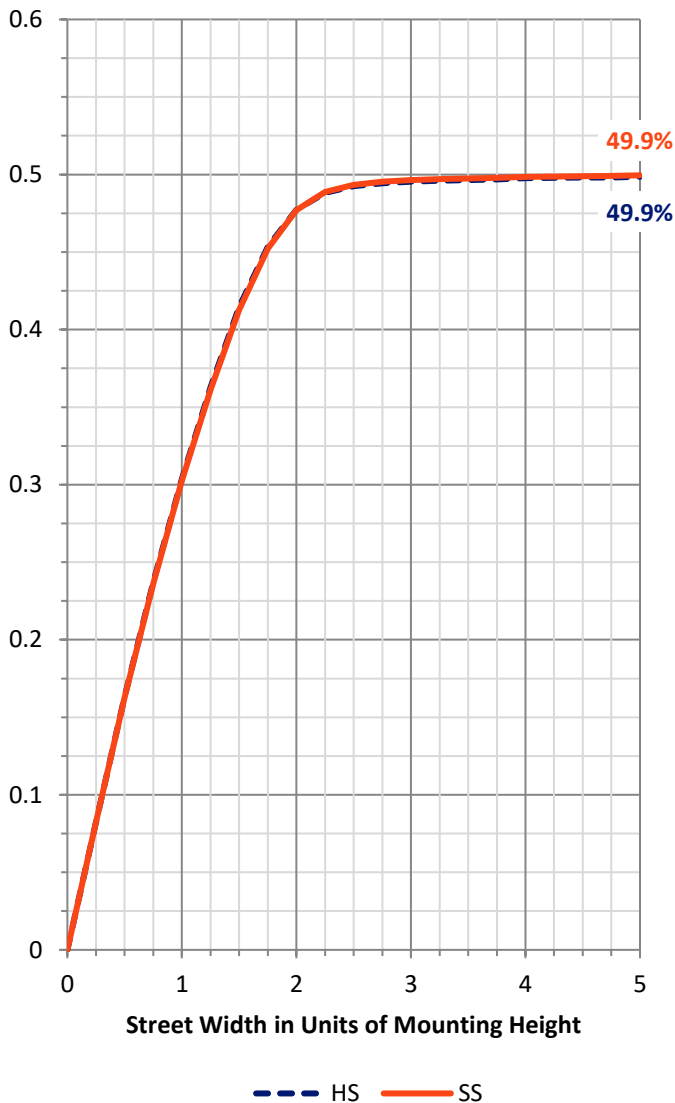
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25523.1	0.0	25523.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25523.1	0.0	25523.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51046.1	0.0	51046.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.1	1.2
10°-20°	1955.2	3.8
20°-30°	3694.7	7.2
30°-40°	6118.9	12.0
40°-50°	9552.6	18.7
50°-60°	14768.1	28.9
60°-70°	12734.4	24.9
70°-80°	1443.1	2.8
80°-90°	172.9	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°	51046.1	100.0
0°-180°	51046.1	100.0

**Coefficient of Utilization**



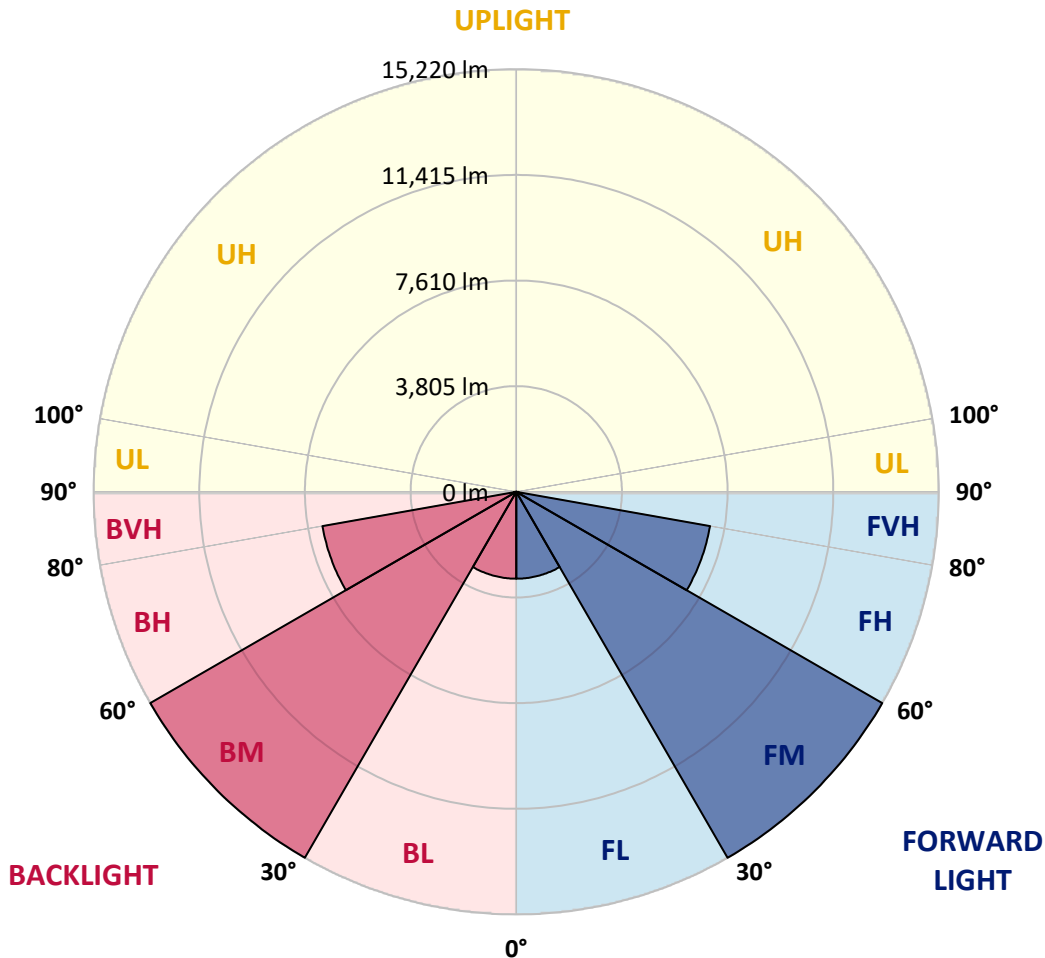
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3128.0	6.1			
FM (30°-60°)	15219.8	29.8			
FH (60°-80°)	7088.7	13.9			G3/7500
FVH (80°-90°)	86.5	0.2			G1/100
BL (0°-30°)	3128.0	6.1	B4/5000		
BM (30°-60°)	15219.8	29.8	B5		
BH (60°-80°)	7088.7	13.9	B5		G3/7500
BVH (80°-90°)	86.5	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8	6169.8
2.5°	6194.1	6207.6	6196.8	6194.1	6191.4	6191.4	6191.4	6194.1	6205.0	6213.0	6207.6
5°	6272.5	6283.3	6277.9	6275.2	6272.5	6272.5	6269.8	6267.1	6275.2	6275.2	6272.5
7.5°	6369.9	6383.4	6377.9	6383.4	6386.1	6388.8	6375.3	6364.5	6361.7	6369.9	6364.5
10°	6502.3	6513.2	6515.9	6518.6	6524.0	6521.3	6505.0	6486.1	6483.4	6480.7	6478.0
12.5°	6651.0	6659.2	6661.8	6672.6	6680.8	6683.5	6664.6	6648.3	6621.3	6626.7	6615.9
15°	6818.7	6834.9	6832.1	6848.4	6870.0	6875.4	6856.5	6829.5	6805.1	6791.7	6783.5
17.5°	7024.1	7034.9	7029.5	7045.7	7072.8	7086.3	7070.1	7034.9	7010.6	6980.9	6964.6
20°	7267.5	7286.4	7291.8	7291.8	7316.1	7329.7	7305.3	7294.5	7256.7	7235.0	7221.5
22.5°	7543.3	7551.3	7567.6	7583.8	7608.1	7602.7	7594.6	7578.4	7543.3	7524.3	7502.7
25°	7854.2	7862.3	7902.8	7938.0	7946.1	7940.7	7929.9	7921.8	7889.4	7846.1	7829.8
27.5°	8216.5	8232.7	8286.7	8319.2	8319.2	8321.9	8300.3	8327.3	8257.0	8205.7	8200.2
30°	8670.7	8681.5	8727.5	8759.9	8743.7	8730.1	8724.7	8751.8	8676.1	8584.2	8562.5
32.5°	9119.5	9157.3	9197.9	9268.2	9211.4	9187.1	9181.7	9200.6	9114.1	9011.3	8981.6
35°	9600.8	9627.8	9703.5	9763.0	9711.6	9654.8	9679.1	9738.6	9635.9	9498.0	9492.6
37.5°	10133.4	10157.7	10255.0	10317.2	10279.4	10182.1	10222.6	10292.8	10190.1	10019.8	9984.7
40°	10687.6	10739.0	10860.7	10925.5	10863.3	10733.6	10809.3	10885.0	10793.0	10595.7	10517.3
42.5°	11309.5	11390.5	11566.3	11598.7	11479.8	11304.1	11436.5	11558.2	11493.3	11266.2	11236.4
45°	12036.7	12085.4	12301.7	12372.0	12207.0	11988.1	12153.0	12374.7	12326.1	12063.8	12007.0
47.5°	12850.6	12896.6	13120.9	13226.4	13018.2	12723.5	13020.9	13310.2	13280.5	12999.3	12972.2
50°	13813.1	13823.9	14134.8	14253.7	14045.6	13791.4	14056.4	14416.0	14297.0	13937.4	13932.0
52.5°	14867.5	14881.0	15273.0	15502.9	15386.6	15100.0	15413.7	15632.7	15329.8	14859.4	14824.2
55°	15781.4	15848.9	16384.3	16995.2	17154.8	16946.6	17041.2	16938.5	16192.3	15532.6	15429.9
57.5°	16154.5	16286.9	17100.7	18241.7	19279.9	19588.1	18858.1	17879.4	16535.6	15602.9	15502.9
60°	15243.3	15386.6	16649.2	18814.9	21464.5	22802.8	20750.7	18038.9	15754.3	14443.0	14286.2
62.5°	12207.0	12247.6	14105.0	17465.8	22737.9	26204.0	21548.2	16679.0	13480.5	11698.8	11636.6
64°	8784.2	9200.6	11168.9	15313.6	22180.9	27499.0	21088.6	14772.9	10949.9	9146.5	8854.6
65°	6569.9	6683.5	9003.2	13077.7	21199.5	27401.7	20196.5	12950.6	9068.2	6999.8	6675.4
67.5°	2482.0	2495.5	3322.8	6518.6	15091.9	23576.1	15413.7	7045.7	3820.3	2763.1	2663.1
70°	1030.1	1049.1	1219.4	2192.7	6486.1	15137.9	7432.4	2541.5	1397.8	1132.8	1116.6
72.5°	754.3	765.1	816.5	973.3	1995.3	6215.8	2444.1	1078.7	819.2	732.7	724.6
75°	592.1	597.5	635.3	716.4	930.0	1722.2	1016.6	740.8	624.5	562.4	556.9
77.5°	451.5	465.0	492.0	546.1	624.5	816.5	673.2	554.3	481.2	429.9	421.8
80°	310.9	327.1	378.5	400.1	419.1	529.9	459.6	419.1	375.8	313.6	294.7
82.5°	192.0	202.8	254.2	273.0	265.0	297.4	294.7	300.1	267.6	194.7	181.1
85°	100.1	105.5	137.9	143.3	132.5	121.7	151.4	175.7	164.9	110.9	108.1
87.5°	21.6	24.4	29.8	27.0	29.8	29.8	37.8	56.8	59.5	37.8	35.2
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)