

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: P651435

Luminaire Tested: **GALN-SA6D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40463 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

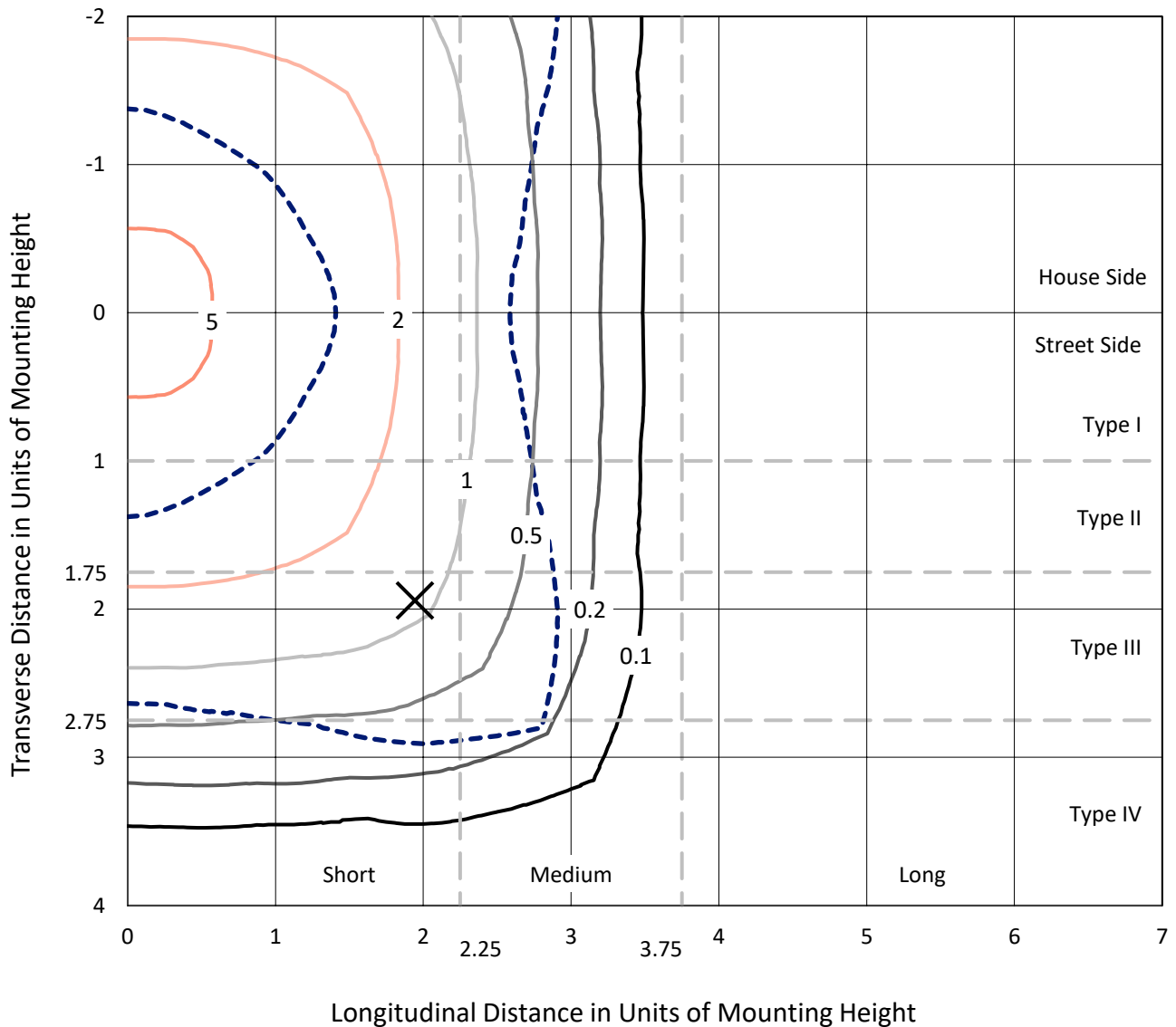
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

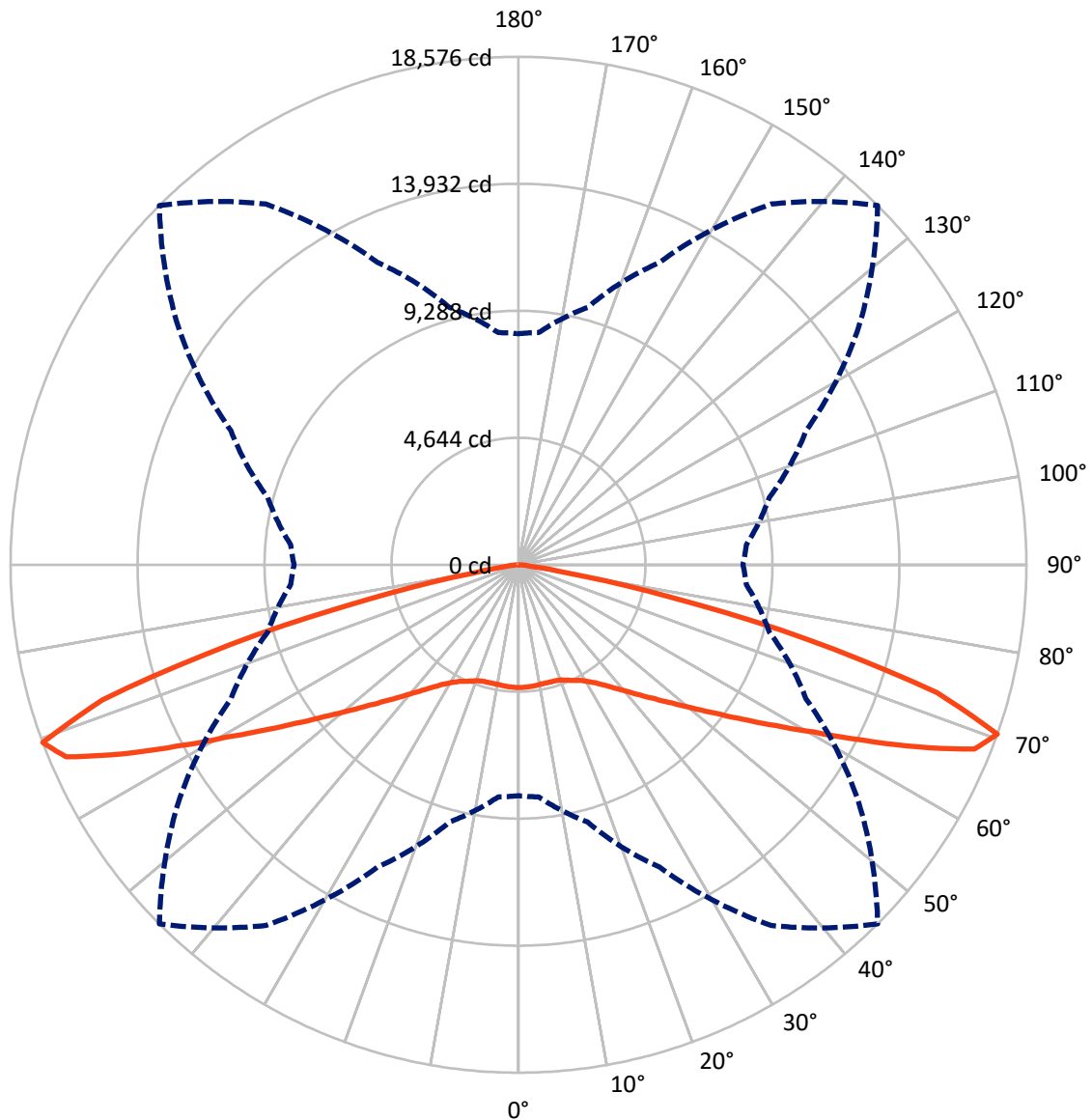
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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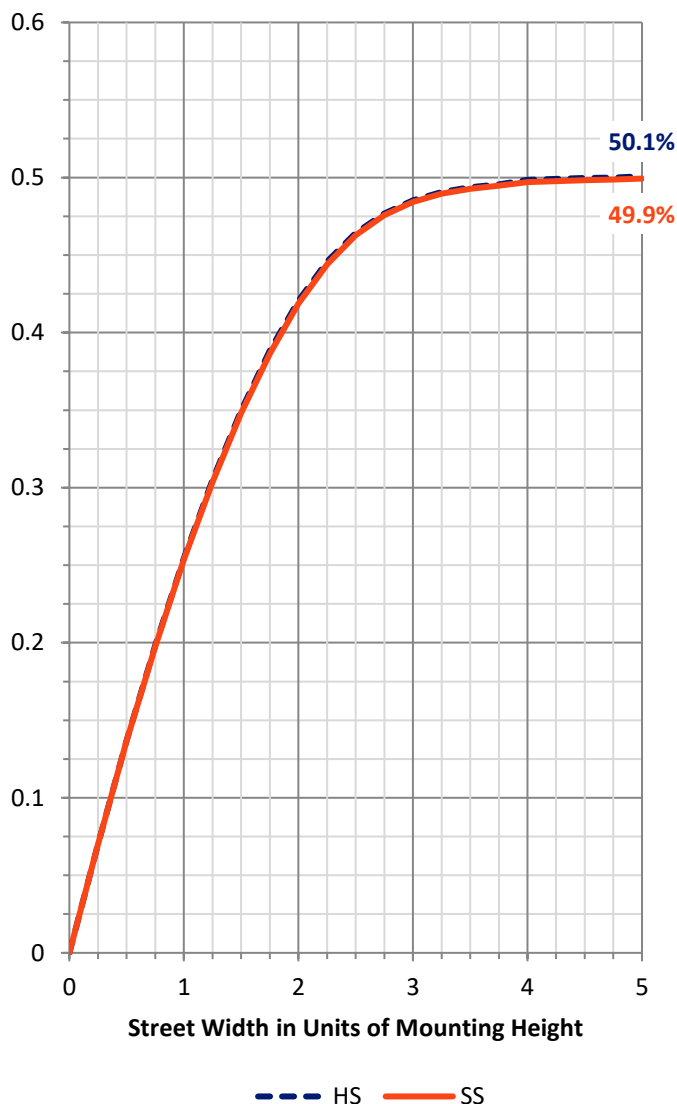
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20231.5	0.0	20231.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20231.5	0.0	20231.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40463.0	0.0	40463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.1	1.1
10°-20°	1250.3	3.1
20°-30°	2138.4	5.3
30°-40°	3394.1	8.4
40°-50°	5475.7	13.5
50°-60°	8909.0	22.0
60°-70°	12914.9	31.9
70°-80°	5728.6	14.2
80°-90°	225.9	0.6
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°	40463.0	100.0
0°-180°	40463.0	100.0

Coefficient of Utilization



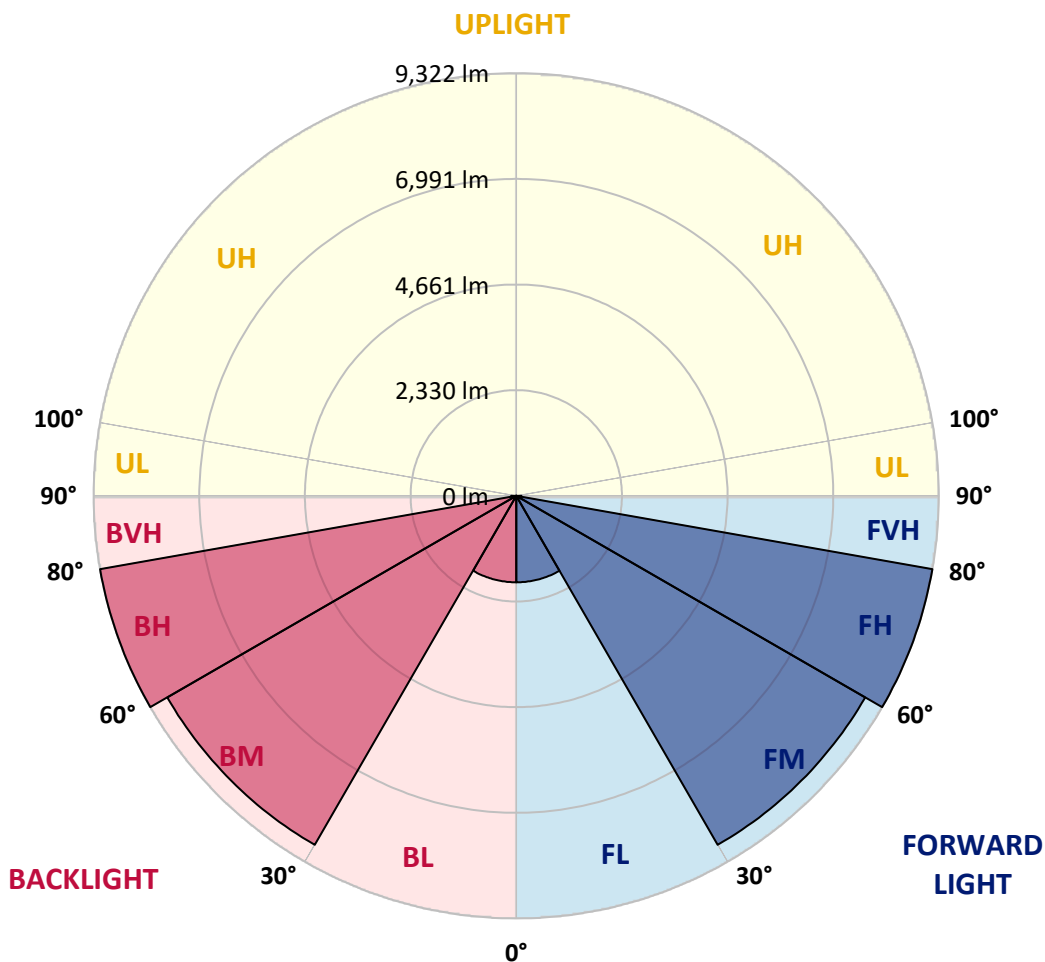
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1907.4	4.7			
FM (30°-60°)	8889.4	22.0			
FH (60°-80°)	9321.7	23.0			G4/12000
FVH (80°-90°)	113.0	0.3			G2/225
BL (0°-30°)	1907.4	4.7	B3/2500		
BM (30°-60°)	8889.4	22.0	B5		
BH (60°-80°)	9321.7	23.0	B5		G4/12000
BVH (80°-90°)	113.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2
2.5°	4493.2	4497.5	4491.1	4486.8	4484.7	4484.7	4482.5	4484.7	4497.5	4499.6	4493.2
5°	4480.4	4484.7	4482.5	4478.3	4476.1	4476.1	4474.0	4471.9	4482.5	4486.8	4484.7
7.5°	4463.4	4465.5	4463.4	4461.3	4463.4	4461.3	4454.9	4450.6	4459.2	4459.2	4457.0
10°	4433.5	4437.8	4435.7	4437.8	4442.1	4442.1	4433.5	4425.0	4427.1	4422.8	4422.8
12.5°	4397.3	4403.6	4405.8	4414.3	4425.0	4437.8	4418.6	4399.4	4395.2	4393.0	4390.9
15°	4373.8	4380.2	4388.8	4397.3	4416.4	4444.2	4416.4	4386.6	4378.1	4369.6	4365.3
17.5°	4367.4	4376.0	4388.8	4401.5	4427.1	4454.9	4431.4	4401.5	4380.2	4367.4	4363.1
20°	4384.5	4390.9	4410.0	4433.5	4469.7	4497.5	4474.0	4442.1	4410.0	4390.9	4384.5
22.5°	4418.6	4429.3	4452.7	4495.4	4546.5	4587.1	4555.1	4501.8	4450.6	4425.0	4416.4
25°	4493.2	4501.8	4529.5	4587.1	4646.8	4685.1	4651.1	4589.2	4518.9	4484.7	4474.0
27.5°	4606.2	4619.0	4648.9	4717.2	4766.2	4787.5	4764.1	4721.4	4670.2	4634.0	4625.4
30°	4766.2	4781.1	4825.9	4898.4	4930.4	4943.2	4932.5	4904.8	4868.5	4830.2	4821.6
32.5°	4981.6	4990.1	5041.3	5109.5	5139.4	5143.6	5130.9	5118.1	5058.4	4994.4	4990.1
35°	5222.5	5237.5	5299.3	5380.4	5408.1	5410.2	5384.6	5365.4	5295.0	5243.9	5243.9
37.5°	5542.4	5548.8	5608.5	5700.2	5730.1	5721.6	5708.8	5691.7	5617.0	5550.9	5553.1
40°	5917.8	5930.6	5981.7	6088.3	6088.3	6077.7	6086.2	6073.4	5998.8	5934.9	5937.0
42.5°	6363.4	6369.8	6431.7	6544.7	6536.2	6514.9	6523.4	6506.3	6459.4	6386.9	6361.3
45°	6839.0	6864.6	6971.2	7080.0	7062.9	6994.7	7028.8	7024.5	6981.9	6873.2	6879.5
47.5°	7412.7	7455.3	7557.6	7687.7	7668.6	7561.9	7600.3	7625.9	7566.2	7446.8	7425.4
50°	8058.8	8086.6	8237.9	8359.5	8342.5	8229.4	8316.8	8321.1	8171.8	8003.4	8003.4
52.5°	8747.6	8775.3	8980.0	9169.8	9180.5	9016.3	9086.7	9082.5	8839.3	8617.6	8574.9
55°	9519.6	9532.4	9796.8	10076.2	10135.9	9975.9	9984.5	9899.2	9583.5	9325.5	9302.0
57.5°	10317.1	10364.1	10656.2	11018.8	11195.7	11097.7	11052.8	10824.7	10519.7	10223.4	10208.4
60°	11200.0	11202.1	11581.7	12010.4	12368.7	12434.8	12251.4	11946.4	11551.9	11159.5	11142.4
62.5°	11812.0	11903.8	12383.6	13108.7	13750.5	14121.6	13637.5	12997.7	12221.5	11588.1	11524.1
65°	11937.9	11999.7	12731.1	13959.5	15271.0	16070.7	14951.1	13590.6	12266.3	11421.8	11379.2
67.5°	10920.6	10986.7	11972.0	13857.2	16337.3	17977.2	15804.2	13304.8	11507.1	10462.1	10379.0
70°	8446.9	8521.6	9739.2	12198.0	16100.5	18576.4	15196.4	11605.2	9489.8	8361.6	8210.2
72.5°	4491.1	4766.2	5806.9	8372.3	13068.1	15994.0	12460.3	8468.3	6120.4	5002.9	4802.4
75°	1640.0	1674.0	2254.0	3712.8	7602.5	10967.6	7894.6	4039.0	2322.3	1793.4	1701.8
77.5°	678.2	676.0	742.1	1121.7	2761.6	5617.0	3081.5	1185.6	740.0	684.6	676.0
80°	400.9	400.9	441.4	467.0	727.2	1695.4	812.5	528.9	443.5	405.2	411.6
82.5°	179.1	189.8	279.4	294.3	351.9	464.9	392.4	336.9	290.1	200.5	181.2
85°	98.1	85.3	147.2	153.6	168.5	172.7	185.5	183.4	168.5	98.1	100.2
87.5°	19.2	23.5	42.6	32.0	36.2	32.0	42.6	59.7	61.8	34.1	27.8
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)