

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: P530511

Luminaire Tested: **GALN-SA5D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24238 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

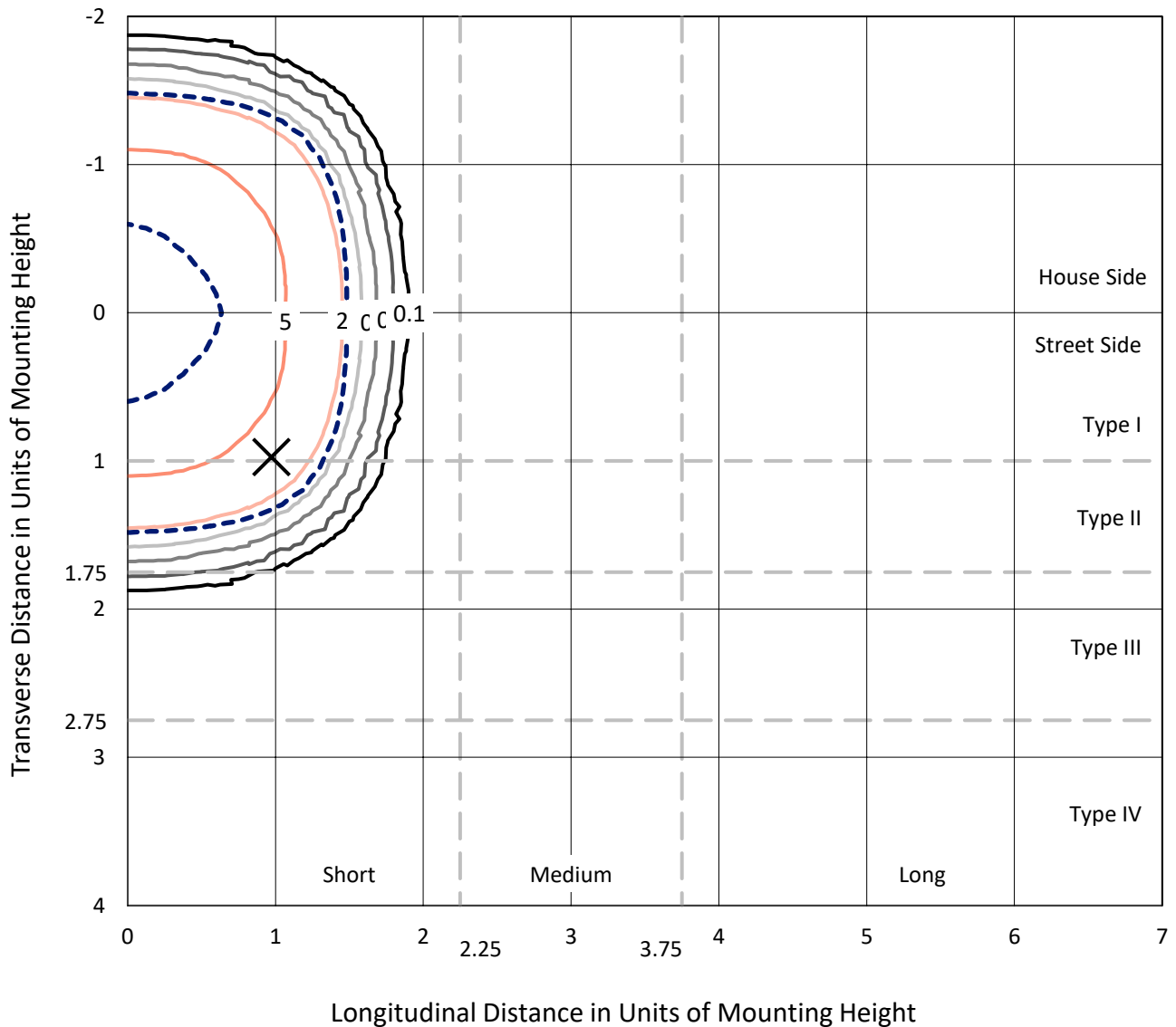
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

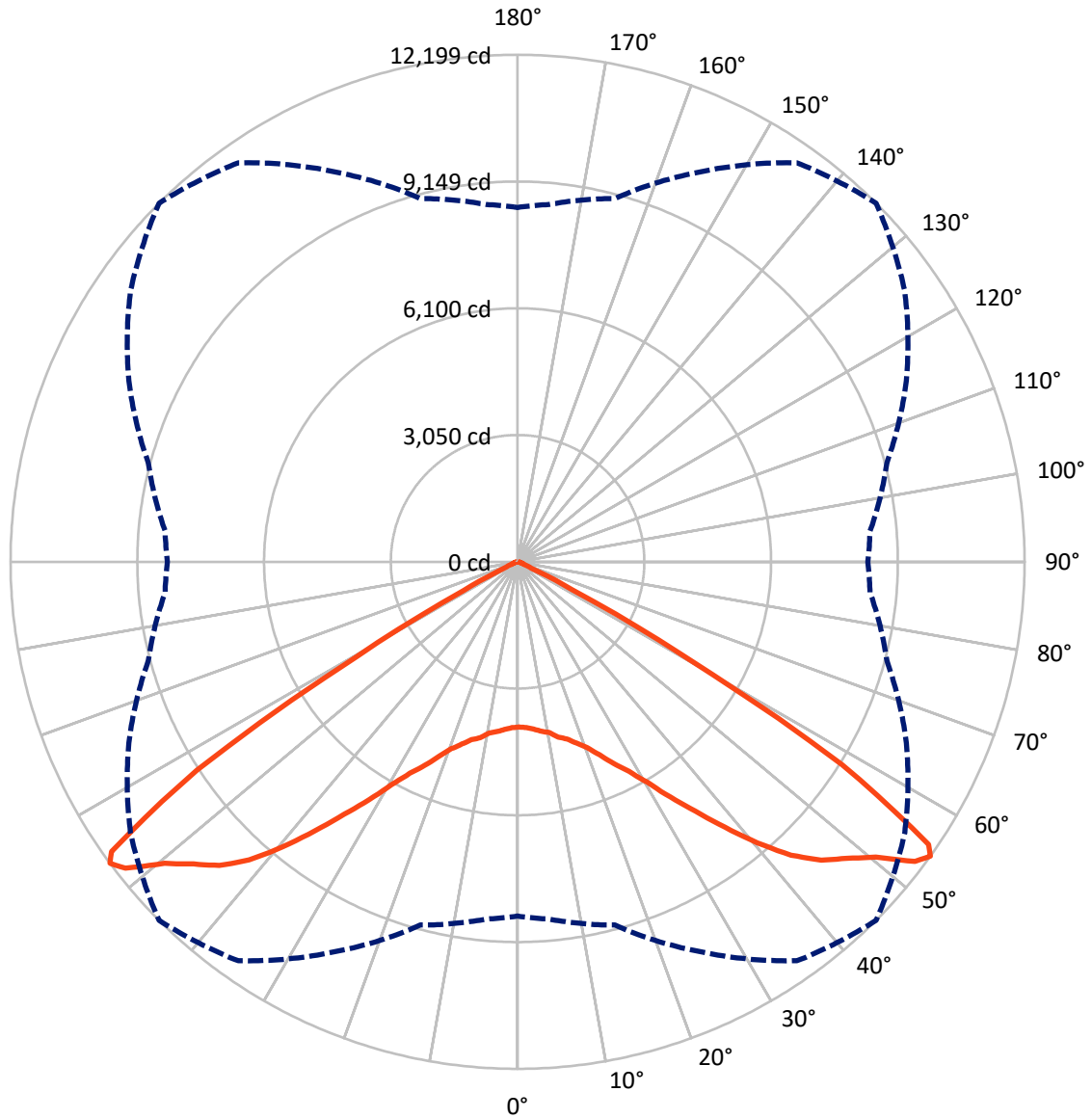
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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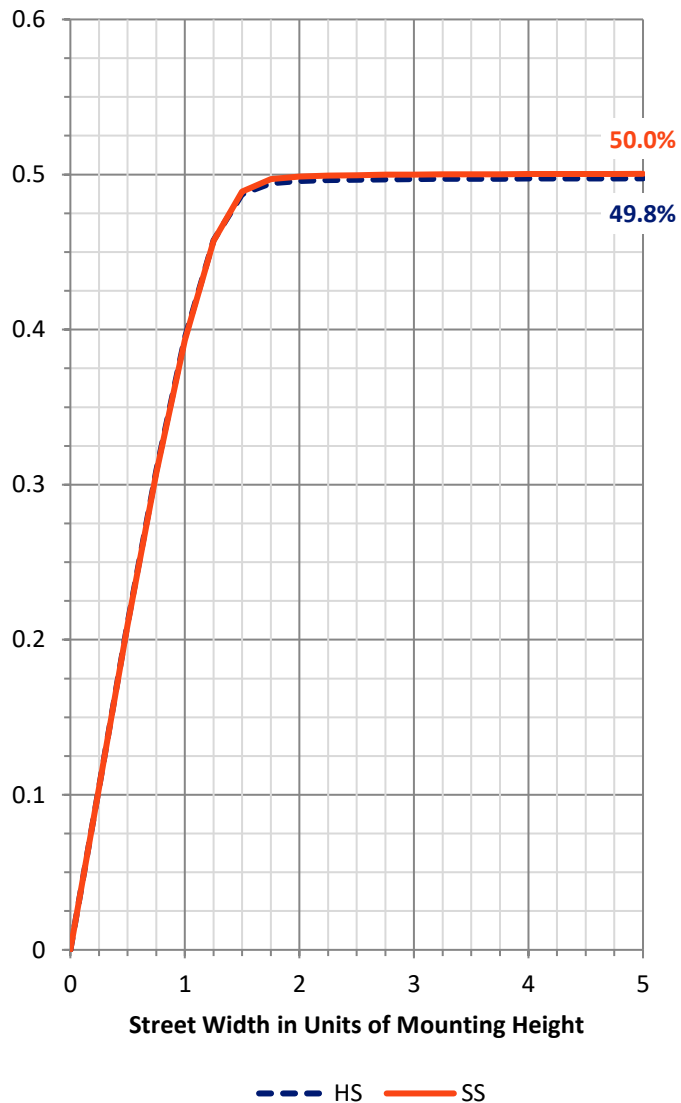
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12119.0	0.0	12119.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12119.0	0.0	12119.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24238.0	0.0	24238.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.0	1.6
10°-20°	1259.7	5.2
20°-30°	2468.9	10.2
30°-40°	4439.6	18.3
40°-50°	7599.8	31.4
50°-60°	7353.5	30.3
60°-70°	629.5	2.6
70°-80°	74.6	0.3
80°-90°	23.4	0.1
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°	24238.0	100.0
0°-180°	24238.0	100.0

**Coefficient of Utilization**



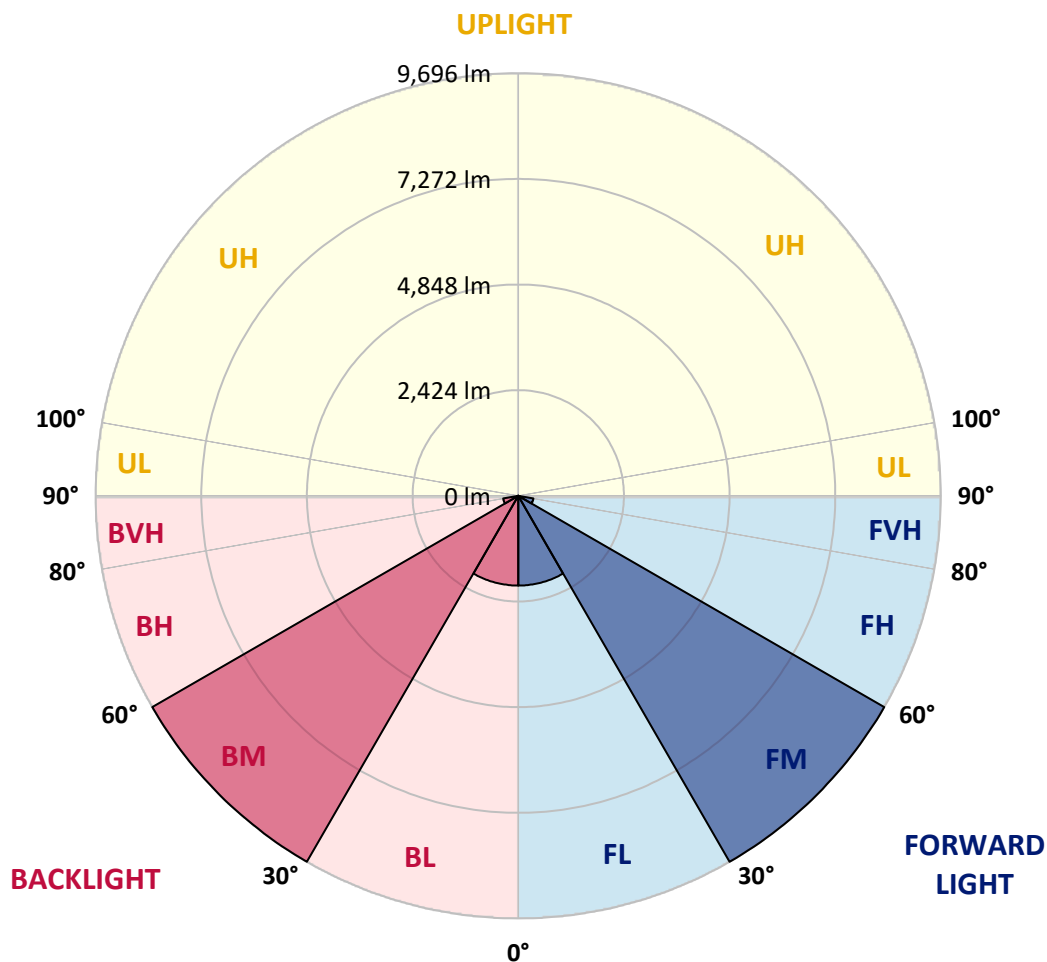
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.8	8.5			
FM (30°-60°)	9696.5	40.0			
FH (60°-80°)	352.1	1.5			G0/660
FVH (80°-90°)	11.7	0.0			G1/100
BL (0°-30°)	2058.8	8.5	B3/2500		
BM (30°-60°)	9696.5	40.0	B5		
BH (60°-80°)	352.1	1.5	B1/500		G0/660
BVH (80°-90°)	11.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3	3974.3
2.5°	3993.5	4016.5	4001.2	4012.7	4012.7	3993.5	4005.0	3958.9	3989.6	3966.6	3970.4
5°	4054.9	4051.1	4051.1	4054.9	4039.6	4047.2	4031.9	4016.5	4005.0	3989.6	4035.7
7.5°	4131.7	4131.7	4104.8	4112.5	4104.8	4116.4	4085.6	4054.9	4043.4	4031.9	4024.2
10°	4204.7	4197.0	4185.5	4220.0	4193.2	4177.8	4162.4	4143.2	4101.0	4085.6	4070.3
12.5°	4312.2	4308.3	4293.0	4327.5	4312.2	4327.5	4269.9	4220.0	4212.3	4162.4	4189.3
15°	4438.9	4473.5	4446.6	4446.6	4438.9	4419.7	4396.7	4373.6	4304.5	4285.3	4289.1
17.5°	4604.0	4592.5	4596.3	4596.3	4634.7	4584.8	4538.7	4481.1	4446.6	4435.1	4396.7
20°	4761.5	4776.8	4773.0	4799.9	4822.9	4769.1	4719.2	4711.5	4615.5	4630.9	4577.1
22.5°	5037.9	5026.4	5045.6	5064.8	5049.4	5041.8	4995.7	4938.1	4853.6	4815.2	4807.5
25°	5329.8	5310.6	5276.0	5322.1	5345.1	5379.7	5291.4	5260.6	5130.1	5072.5	5076.3
27.5°	5579.3	5606.2	5644.6	5663.8	5721.4	5709.9	5648.5	5548.6	5448.8	5383.5	5341.3
30°	5921.1	5936.5	6001.7	6028.6	6128.5	6155.3	6059.3	5944.1	5767.5	5683.0	5633.1
32.5°	6236.0	6343.5	6339.6	6474.0	6635.3	6746.7	6573.9	6397.2	6220.6	6120.8	6032.5
35°	6746.7	6727.5	6838.8	6980.9	7242.0	7368.7	7180.6	6977.1	6708.3	6547.0	6477.9
37.5°	7222.8	7230.5	7380.3	7606.8	7906.3	8102.1	7937.0	7603.0	7326.5	7119.1	7023.1
40°	7914.0	7929.4	8082.9	8340.2	8678.1	8889.3	8697.3	8359.4	7990.8	7829.5	7829.5
42.5°	8724.2	8789.5	8889.3	9112.0	9415.4	9649.6	9476.8	9211.9	8839.4	8632.1	8662.8
45°	9557.5	9588.2	9653.5	9983.7	10125.8	10241.0	10079.7	9956.8	9707.2	9453.8	9411.5
47.5°	10337.0	10348.5	10540.5	10644.2	10755.5	10659.5	10763.2	10601.9	10321.6	10075.8	10025.9
50°	10682.5	10663.3	10936.0	11250.9	11335.3	11166.4	11078.1	10970.5	10544.3	10248.6	10118.1
52.5°	9676.5	9787.9	10294.7	11170.2	11830.7	11972.7	11458.2	10962.9	10168.0	9592.0	9503.7
54°	8524.5	8628.2	9046.8	10344.6	11719.3	12199.3	11369.9	10317.8	9196.5	8513.0	8424.7
55°	7384.1	7268.9	8029.2	9354.0	11197.1	11999.6	11020.5	9484.5	8202.0	7576.1	7453.2
57.5°	3997.3	4016.5	4657.8	5909.6	7867.9	9200.4	8125.2	6416.4	4845.9	4143.2	4081.8
60°	1267.2	1297.9	1578.2	2388.4	3759.2	4488.8	3847.6	2576.6	1781.7	1428.4	1370.8
62.5°	395.5	410.9	449.3	668.1	1029.1	1470.7	1152.0	691.2	514.5	472.3	480.0
65°	241.9	241.9	245.8	261.1	307.2	357.1	345.6	303.4	291.8	284.2	280.3
67.5°	157.4	153.6	161.3	172.8	180.5	184.3	195.8	207.4	203.5	195.8	195.8
70°	96.0	92.2	99.8	115.2	119.0	126.7	138.2	153.6	149.8	142.1	145.9
72.5°	53.8	53.8	57.6	69.1	80.6	88.3	99.8	111.4	115.2	111.4	111.4
75°	19.2	23.0	30.7	42.2	49.9	61.4	73.0	84.5	96.0	88.3	84.5
77.5°	7.7	7.7	15.4	26.9	38.4	49.9	69.1	80.6	88.3	80.6	73.0
80°	3.8	3.8	11.5	23.0	34.6	46.1	57.6	69.1	73.0	65.3	57.6
82.5°	3.8	3.8	11.5	23.0	34.6	42.2	61.4	69.1	76.8	69.1	57.6
85°	0.0	3.8	11.5	23.0	30.7	34.6	34.6	23.0	19.2	11.5	11.5
87.5°	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)