

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: P533321

Luminaire Tested: **GALN-SA8D-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29675 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

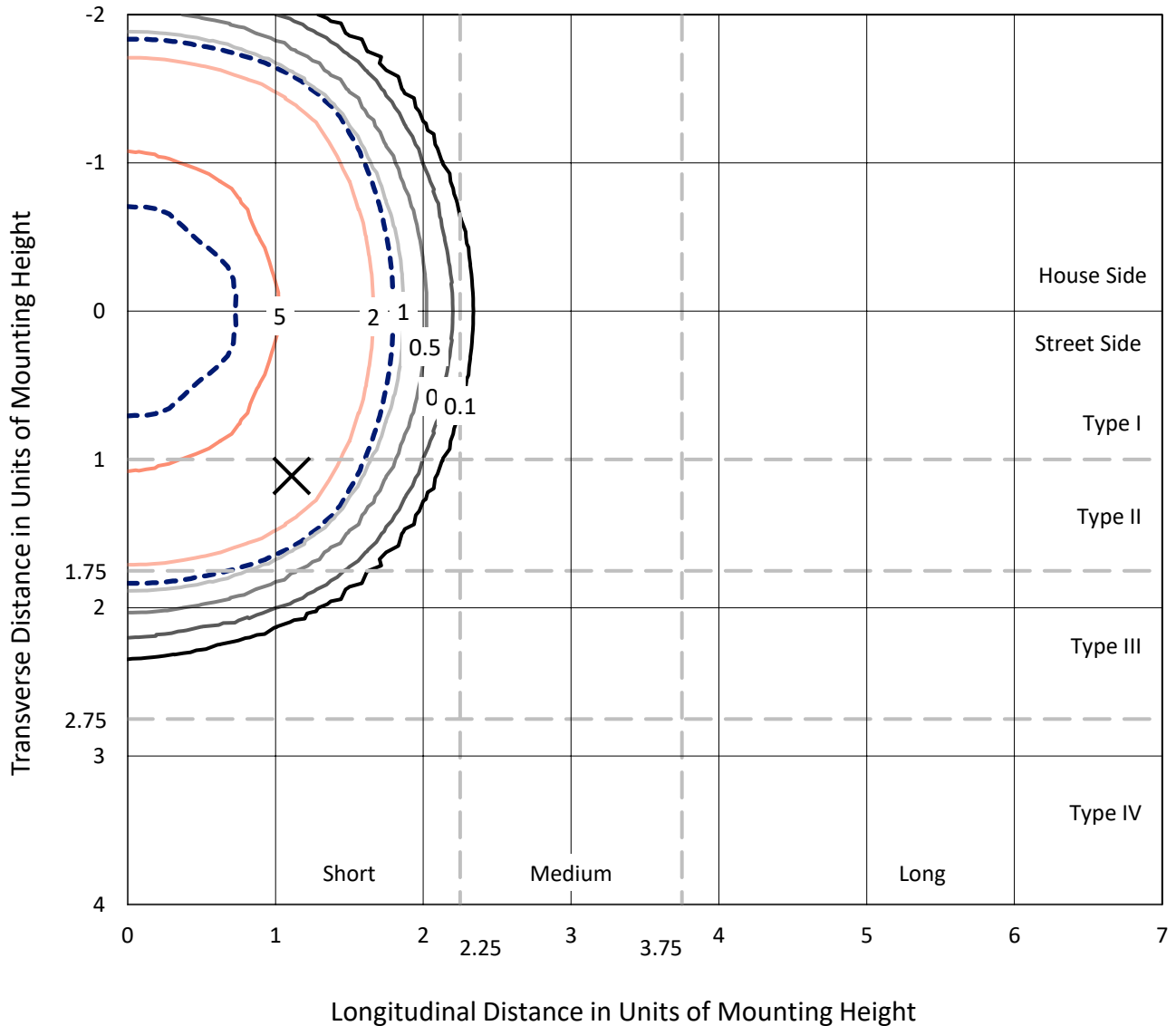
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

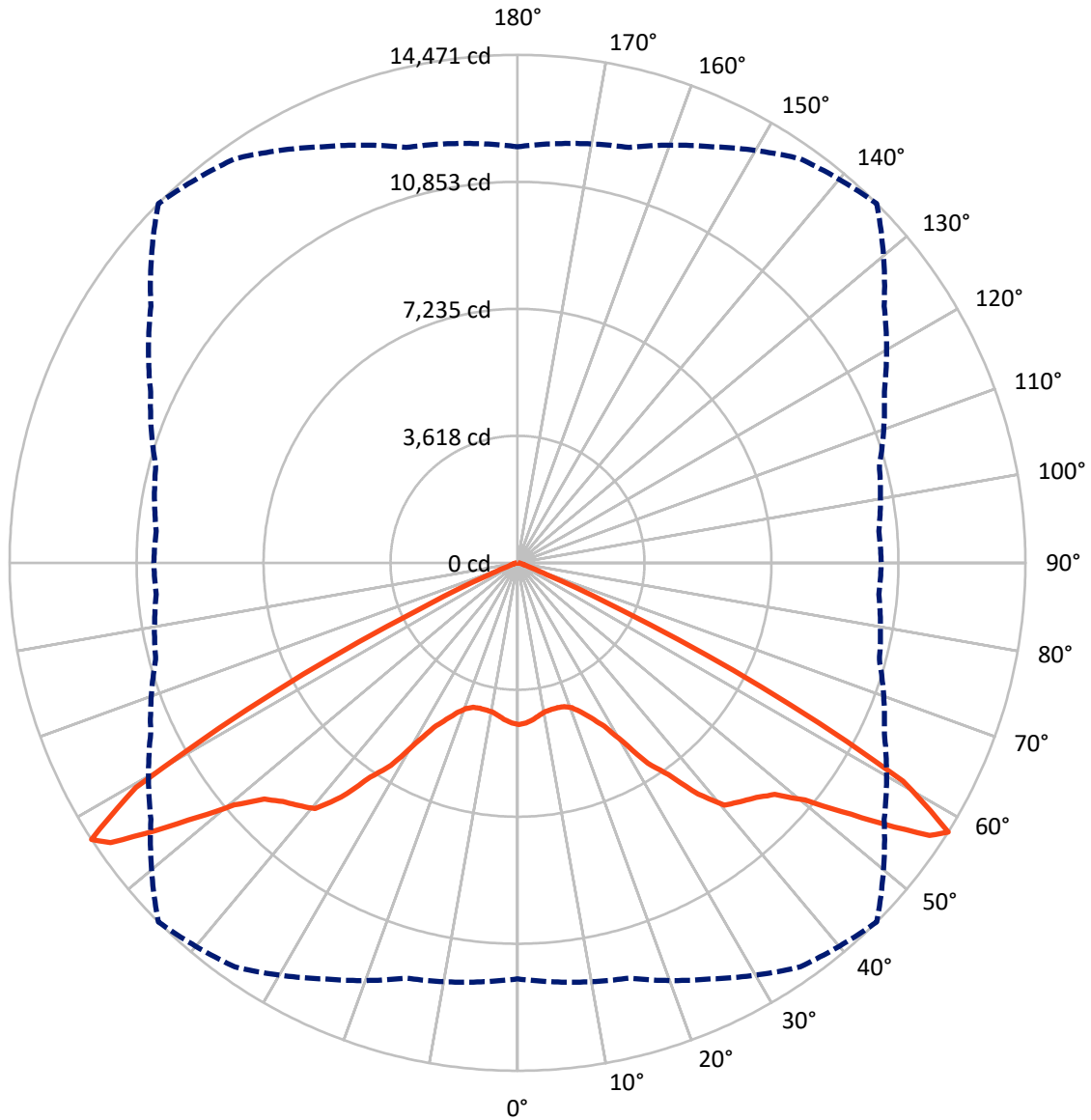
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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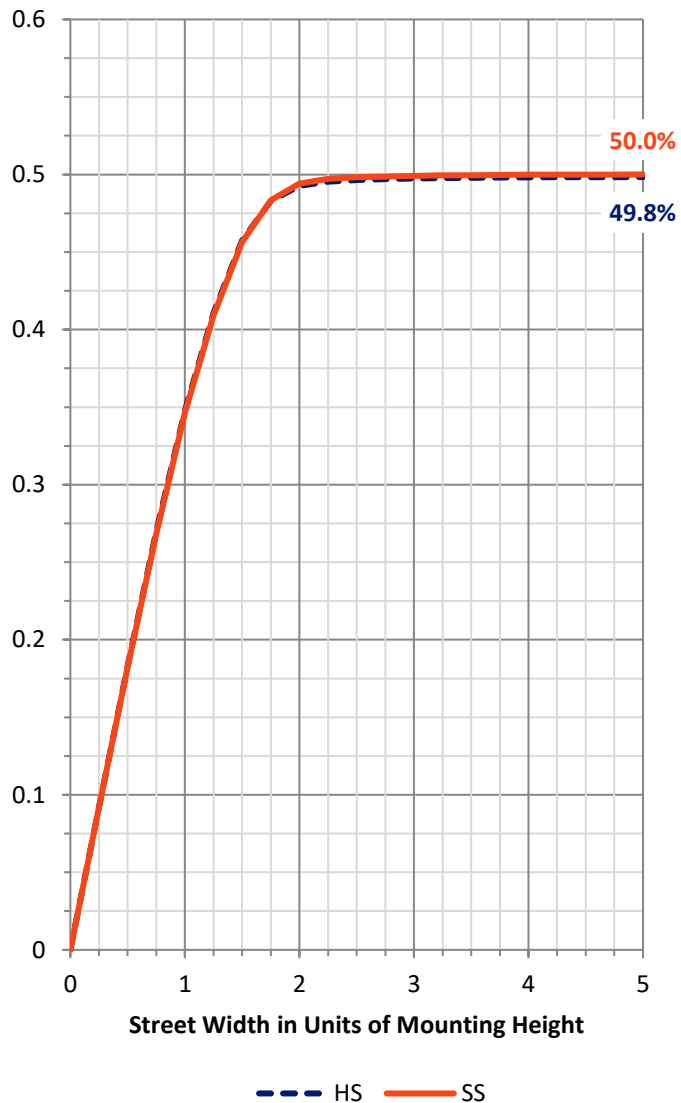
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14837.5	0.0	14837.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14837.5	0.0	14837.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29675.0	0.0	29675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.0	1.4
10°-20°	1222.6	4.1
20°-30°	2256.8	7.6
30°-40°	4438.3	15.0
40°-50°	7228.7	24.4
50°-60°	10309.0	34.7
60°-70°	3569.2	12.0
70°-80°	191.5	0.6
80°-90°	36.0	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°	29675.0	100.0
0°-180°	29675.0	100.0

**Coefficient of Utilization**



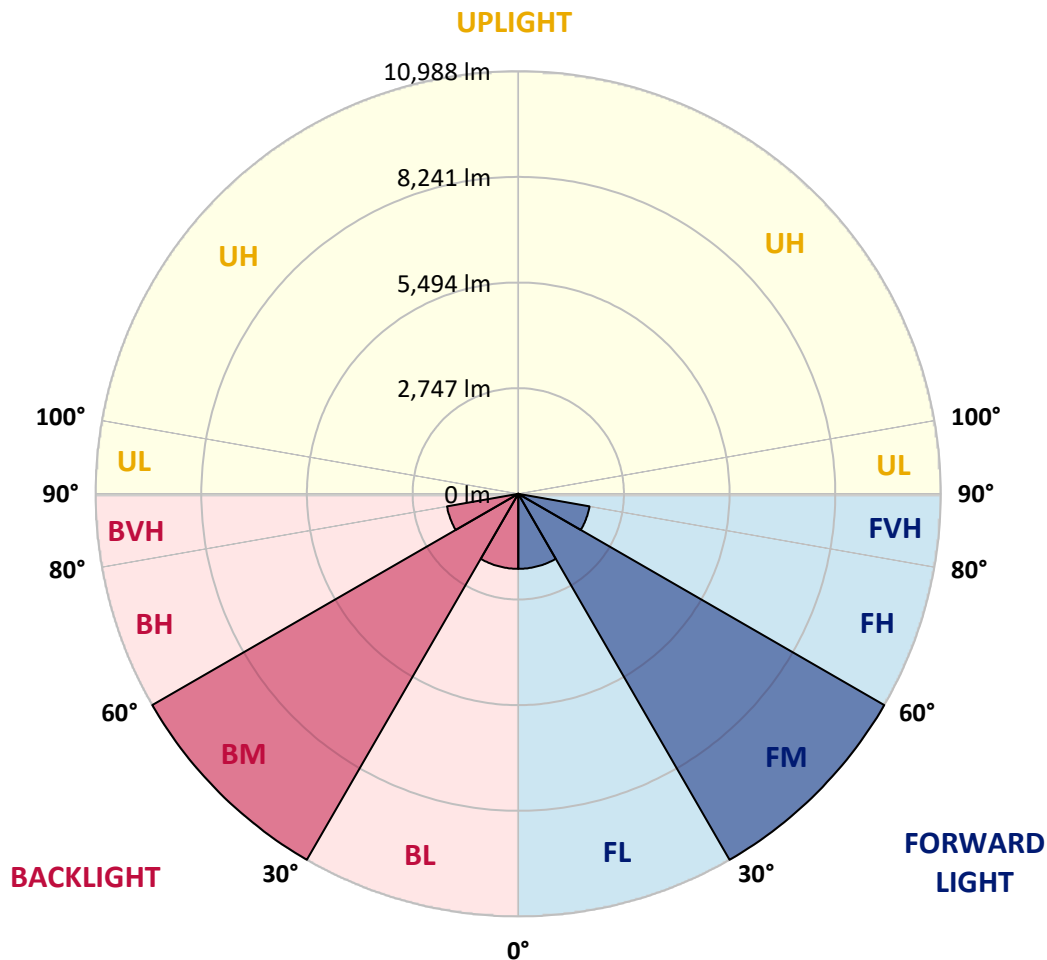
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.2	6.6			
FM (30°-60°)	10988.0	37.0			
FH (60°-80°)	1880.3	6.3			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1951.2	6.6	B3/2500		
BM (30°-60°)	10988.0	37.0	B5		
BH (60°-80°)	1880.3	6.3	B3/2500		G2/5000
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9	4602.9
2.5°	4590.5	4615.3	4584.3	4572.0	4565.8	4565.8	4547.2	4547.2	4541.0	4547.2	4522.5
5°	4516.3	4541.0	4541.0	4534.8	4497.7	4491.5	4473.0	4460.6	4466.8	4442.0	4460.6
7.5°	4442.0	4460.6	4435.9	4429.7	4417.3	4392.6	4386.4	4330.7	4336.9	4336.9	4349.2
10°	4429.7	4423.5	4386.4	4355.4	4318.3	4312.1	4293.6	4281.2	4281.2	4275.0	4293.6
12.5°	4429.7	4398.7	4392.6	4324.5	4262.6	4287.4	4237.9	4207.0	4250.3	4262.6	4287.4
15°	4423.5	4454.4	4349.2	4318.3	4275.0	4281.2	4237.9	4207.0	4231.7	4244.1	4262.6
17.5°	4460.6	4442.0	4411.1	4349.2	4330.7	4305.9	4250.3	4225.5	4225.5	4256.4	4262.6
20°	4559.6	4510.1	4448.2	4417.3	4435.9	4404.9	4336.9	4244.1	4268.8	4293.6	4312.1
22.5°	4652.4	4615.3	4572.0	4553.4	4658.6	4609.1	4491.5	4386.4	4349.2	4392.6	4423.5
25°	4831.8	4831.8	4751.4	4776.1	4893.7	4899.9	4763.8	4578.2	4553.4	4572.0	4584.3
27.5°	5196.8	5215.4	5147.3	5172.1	5221.6	5264.9	5147.3	4992.7	4937.0	4930.8	4949.4
30°	5592.8	5629.9	5623.7	5728.9	5871.2	5895.9	5722.7	5469.0	5302.0	5271.1	5295.8
32.5°	6112.5	6131.0	6118.6	6242.4	6626.0	6805.4	6353.7	5994.9	5772.2	5827.9	5772.2
35°	7090.0	7071.4	6935.3	6960.0	7275.6	7405.5	6972.4	6743.5	6638.3	6749.7	6724.9
37.5°	7931.3	7863.3	7751.9	7912.8	8240.7	8358.2	7906.6	7504.5	7312.7	7498.3	7578.7
40°	8642.8	8469.6	8314.9	8475.8	8915.0	9075.9	8413.9	8086.0	8011.8	8147.9	8321.1
42.5°	9242.9	9131.6	8927.4	8939.8	9230.6	9304.8	8772.7	8581.0	8506.7	8723.2	8809.9
45°	9669.8	9564.6	9372.8	9360.5	9583.2	9533.7	9057.3	8927.4	8970.7	9113.0	9156.3
47.5°	9886.3	9942.0	9830.7	9861.6	9979.1	9861.6	9484.2	9484.2	9385.2	9471.8	9428.5
50°	10511.2	10338.0	10480.3	10480.3	10604.0	10616.4	10239.0	10102.9	9836.8	9688.4	9688.4
52.5°	11241.2	11253.6	11309.3	11513.4	11723.8	11903.2	11365.0	10783.4	10338.0	10146.2	10121.4
55°	11841.3	11965.1	12187.8	12571.4	13177.7	13425.1	12497.1	11457.8	10913.3	10616.4	10554.5
56°	12169.2	12051.7	12435.3	12961.1	13753.0	14074.7	12682.7	11593.9	10993.8	10659.7	10653.5
57.5°	11853.7	11983.6	12249.7	13078.7	14050.0	14470.7	12750.8	11532.0	10672.1	10331.8	10362.7
60°	9360.5	9484.2	9843.0	10771.0	12293.0	12620.9	10789.6	9509.0	8741.8	8253.1	8259.2
62.5°	5295.8	5388.6	5667.0	6527.0	7473.5	7789.1	6724.9	5871.2	5339.1	5066.9	4980.3
65°	1948.8	1911.7	1955.0	2394.3	2975.8	3241.8	2796.4	2363.3	2084.9	1985.9	1948.8
67.5°	730.0	674.4	631.0	674.4	847.6	897.1	822.8	686.7	643.4	662.0	674.4
70°	451.6	426.9	340.3	321.7	315.5	309.3	327.9	346.5	395.9	464.0	476.4
72.5°	315.5	297.0	241.3	228.9	216.5	210.3	241.3	266.0	309.3	358.8	365.0
75°	123.7	129.9	123.7	136.1	142.3	148.5	173.2	191.8	210.3	210.3	204.2
77.5°	24.7	24.7	37.1	49.5	61.9	80.4	117.5	136.1	142.3	136.1	117.5
80°	0.0	0.0	12.4	24.7	49.5	68.1	105.2	117.5	129.9	117.5	92.8
82.5°	0.0	0.0	12.4	30.9	49.5	61.9	99.0	123.7	142.3	129.9	99.0
85°	0.0	0.0	12.4	24.7	37.1	43.3	43.3	30.9	30.9	18.6	12.4
87.5°	0.0	0.0	0.0	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)