

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: P457442

Luminaire Tested: **GALN-SA8D-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65379 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

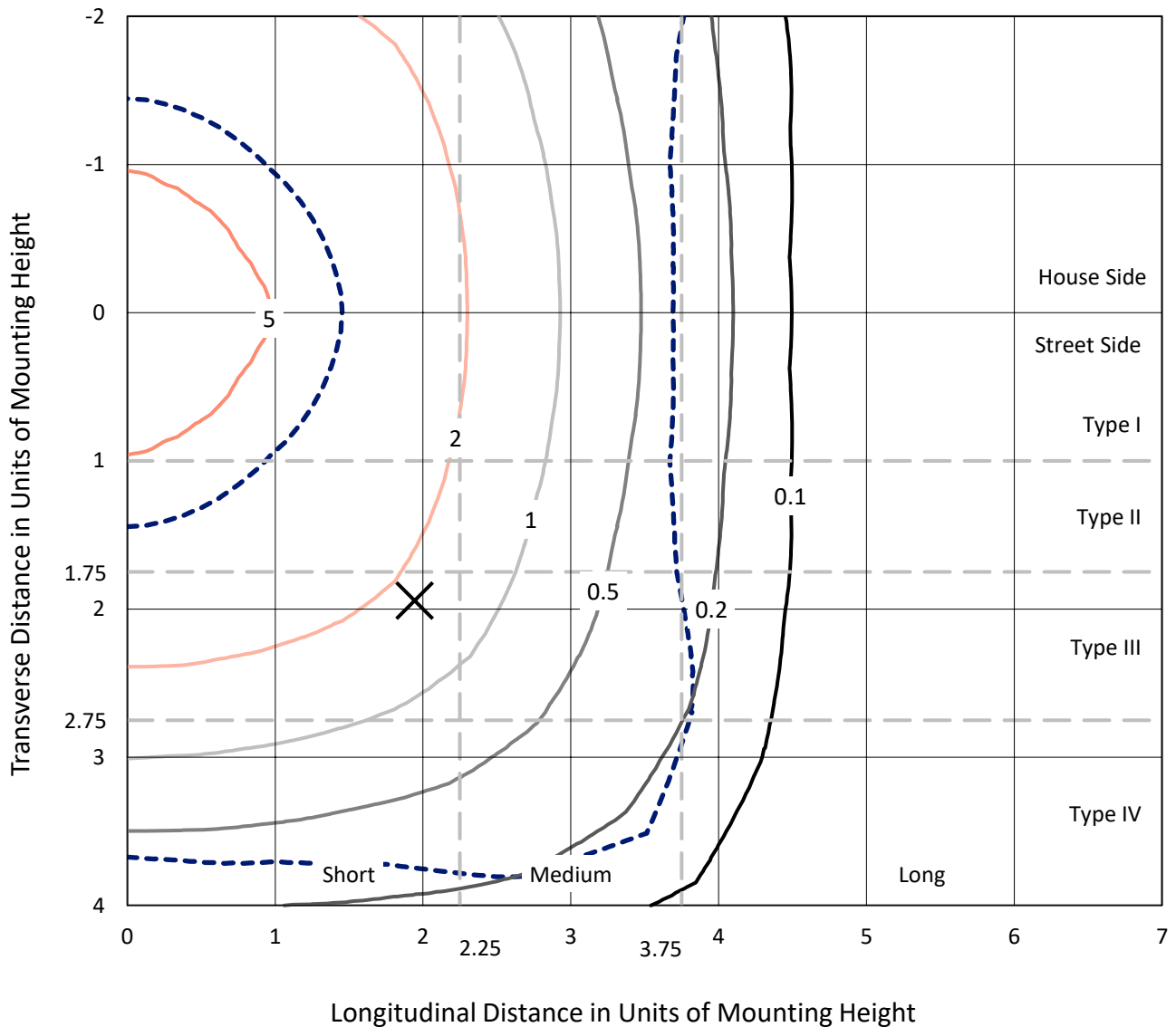
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

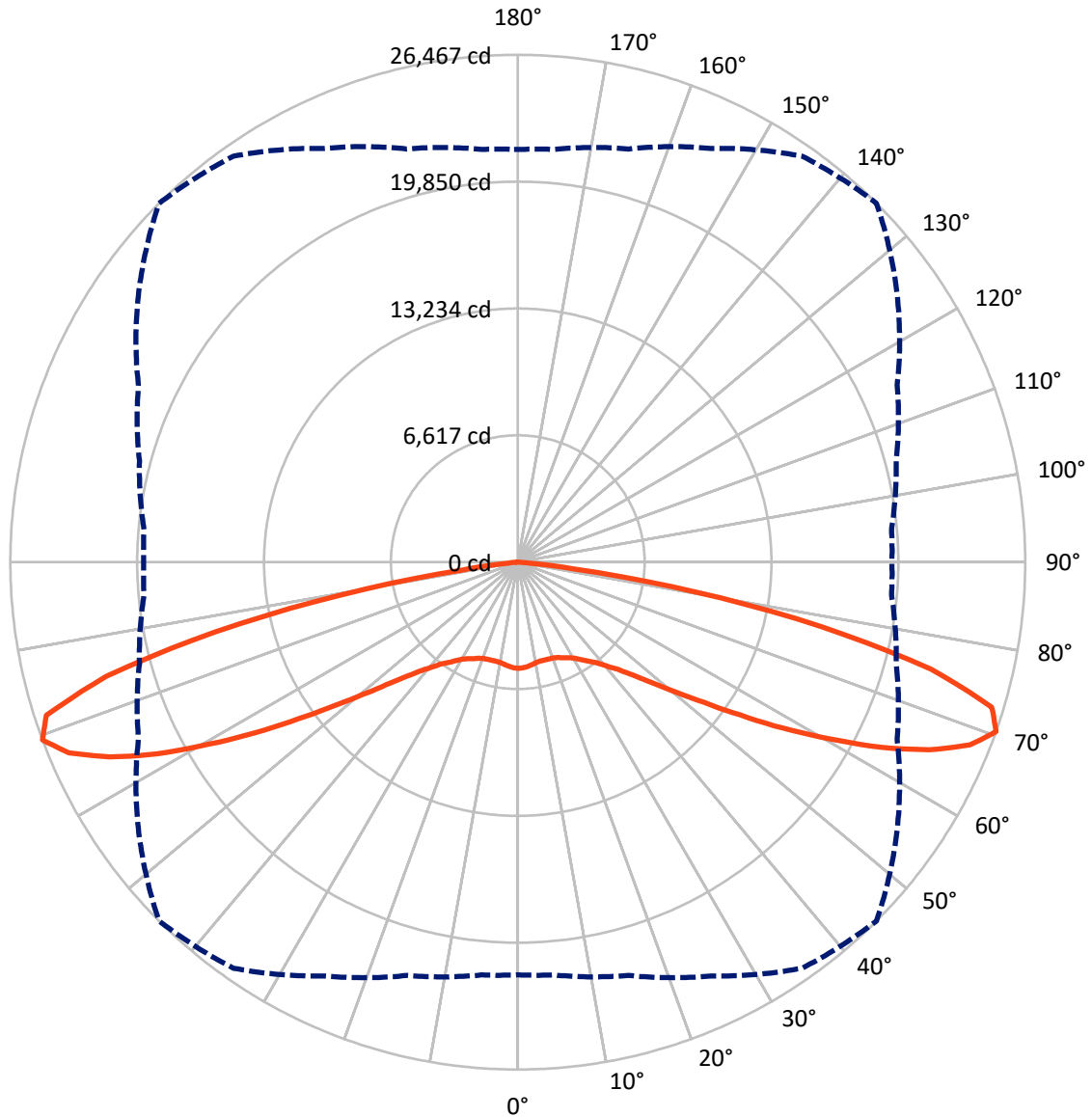
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	32689.5	0.0	32689.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32689.5	0.0	32689.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	65379.0	0.0	65379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.6	0.8
10°-20°	1515.4	2.3
20°-30°	2581.9	3.9
30°-40°	4001.9	6.1
40°-50°	6735.8	10.3
50°-60°	12255.6	18.7
60°-70°	20748.3	31.7
70°-80°	16060.0	24.6
80°-90°	962.3	1.5
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°	65379.0	100.0
0°-180°	65379.0	100.0

**Coefficient of Utilization**



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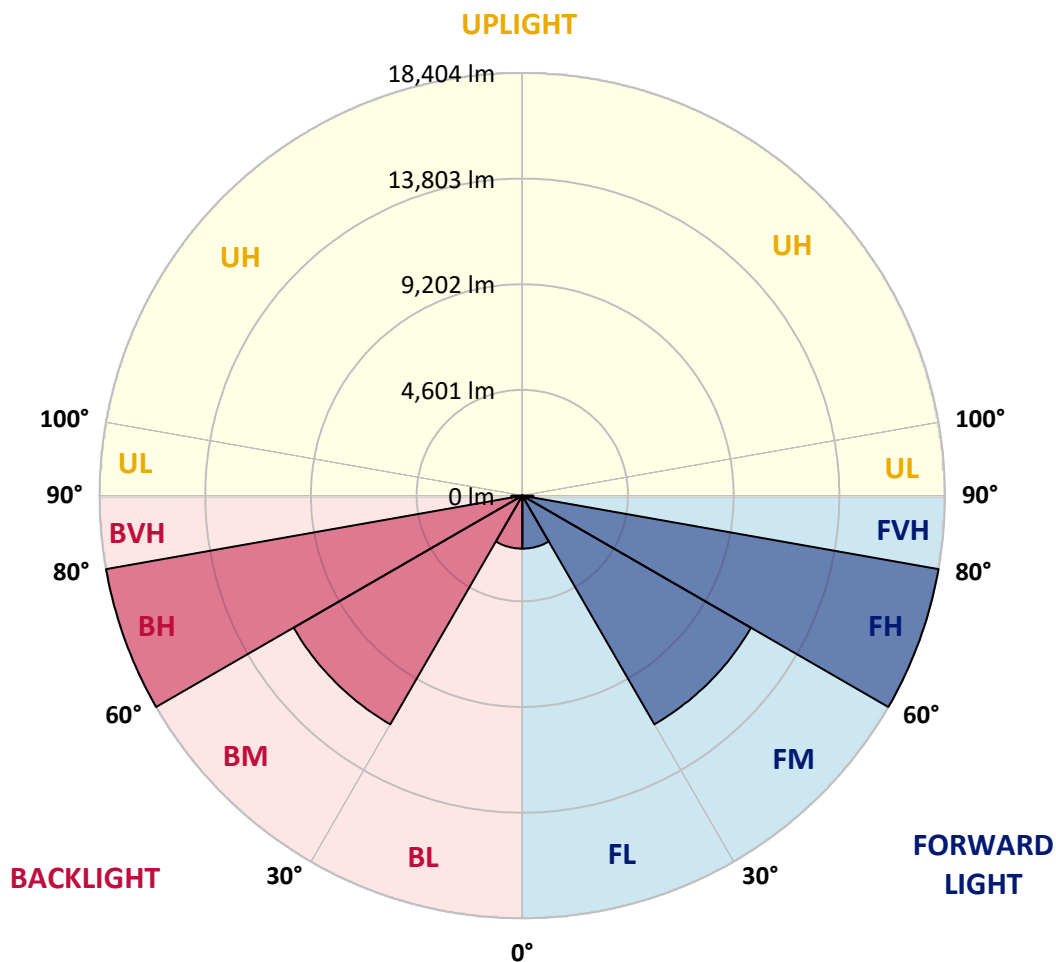
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.5	3.5			
FM (30°-60°)	11496.7	17.6			
FH (60°-80°)	18404.2	28.1			G5
FVH (80°-90°)	481.2	0.7			G3/500
BL (0°-30°)	2307.5	3.5	B3/2500		
BM (30°-60°)	11496.7	17.6	B5		
BH (60°-80°)	18404.2	28.1	B5		G5
BVH (80°-90°)	481.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1	5535.1
2.5°	5521.3	5524.8	5524.8	5517.9	5514.4	5514.4	5511.0	5511.0	5521.3	5524.8	5528.2
5°	5473.0	5473.0	5473.0	5469.5	5462.6	5462.6	5455.7	5455.7	5459.2	5469.5	5462.6
7.5°	5407.4	5414.3	5414.3	5400.5	5390.1	5390.1	5386.7	5390.1	5393.6	5403.9	5400.5
10°	5386.7	5390.1	5372.8	5348.7	5331.4	5321.0	5324.5	5331.4	5348.7	5355.6	5359.0
12.5°	5400.5	5400.5	5369.4	5334.9	5303.8	5290.0	5286.5	5310.7	5341.8	5362.5	5369.4
15°	5417.7	5410.8	5372.8	5328.0	5296.9	5293.4	5290.0	5307.2	5352.1	5393.6	5397.0
17.5°	5428.1	5424.6	5376.3	5321.0	5303.8	5303.8	5300.3	5314.1	5362.5	5414.3	5417.7
20°	5462.6	5452.3	5397.0	5338.3	5324.5	5331.4	5321.0	5338.3	5390.1	5452.3	5466.1
22.5°	5531.7	5521.3	5466.1	5407.4	5400.5	5400.5	5397.0	5414.3	5469.5	5535.1	5545.5
25°	5614.6	5604.2	5552.4	5511.0	5517.9	5531.7	5524.8	5528.2	5573.1	5628.4	5645.6
27.5°	5725.0	5707.8	5662.9	5628.4	5649.1	5649.1	5649.1	5645.6	5673.3	5725.0	5742.3
30°	5859.7	5852.8	5804.5	5801.0	5818.3	5801.0	5801.0	5804.5	5807.9	5856.3	5873.5
32.5°	6035.8	6022.0	5997.8	5990.9	6039.3	6053.1	6004.7	5959.8	5984.0	6032.4	6042.7
35°	6325.9	6305.1	6270.6	6232.6	6270.6	6336.2	6232.6	6198.1	6260.3	6325.9	6332.8
37.5°	6719.5	6709.1	6653.9	6584.8	6581.4	6650.4	6543.4	6540.0	6657.4	6736.8	6747.1
40°	7213.3	7223.6	7154.6	7089.0	7054.4	7109.7	7026.8	7057.9	7171.8	7261.6	7254.7
42.5°	7907.3	7869.3	7762.3	7700.2	7662.2	7641.5	7620.7	7669.1	7796.8	7893.5	7969.5
45°	8718.8	8705.0	8570.3	8494.3	8411.5	8380.4	8373.5	8459.8	8615.2	8732.6	8743.0
47.5°	9637.3	9606.2	9519.9	9440.5	9409.4	9371.4	9336.9	9402.5	9557.9	9640.7	9664.9
50°	10583.4	10590.3	10590.3	10576.5	10607.6	10614.5	10521.2	10545.4	10631.7	10624.8	10617.9
52.5°	11664.2	11702.2	11881.7	11899.0	12047.5	12147.6	11978.4	11878.3	11847.2	11660.7	11674.5
55°	12934.9	12969.4	13238.7	13508.1	13908.6	14077.8	13722.2	13411.4	13190.4	12907.3	12921.1
57.5°	14519.8	14537.1	14792.6	15310.5	15945.9	16343.0	15718.0	15103.4	14654.5	14385.1	14278.1
60°	16225.6	16242.8	16615.8	17247.7	18235.2	18718.6	17945.2	16940.3	16374.0	15963.1	15990.8
62.5°	18273.2	18342.2	18677.2	19547.3	20745.5	21287.6	20262.1	18918.9	18152.3	17641.3	17662.0
65°	20465.8	20583.2	20949.3	21905.7	23010.7	23594.2	22337.4	20787.0	19833.9	19208.9	19274.6
67.5°	21888.5	21992.1	22520.4	23577.0	24954.7	25438.1	23815.2	22009.3	20818.0	20072.2	19934.1
70°	21525.9	21612.2	22316.6	23815.2	25855.9	26467.1	24167.4	21829.8	20427.9	19568.1	19512.8
72.5°	19001.8	18822.2	19851.2	22002.4	24827.0	25852.5	23059.0	19937.5	18173.1	17289.1	17185.5
75°	12593.0	12983.2	14502.5	17037.0	21004.5	22275.2	19682.0	16008.0	13787.8	13052.3	12938.3
77.5°	4209.2	4509.6	5859.7	9658.0	14319.5	16229.0	14340.2	10469.4	7406.7	5966.8	5994.4
80°	1115.3	1101.5	1426.1	2655.3	6187.7	9399.0	7202.9	3546.2	1940.6	1405.4	1332.9
82.5°	400.5	448.9	576.6	735.5	1640.2	2921.2	2061.4	994.5	728.6	538.7	521.4
85°	176.1	172.6	248.6	293.5	410.9	545.6	483.4	421.3	369.5	245.2	227.9
87.5°	38.0	38.0	58.7	44.9	72.5	72.5	89.8	107.0	110.5	72.5	58.7
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)