

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: P529575

Luminaire Tested: **GALN-SA4D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529575  
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-SA4D-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 19146 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

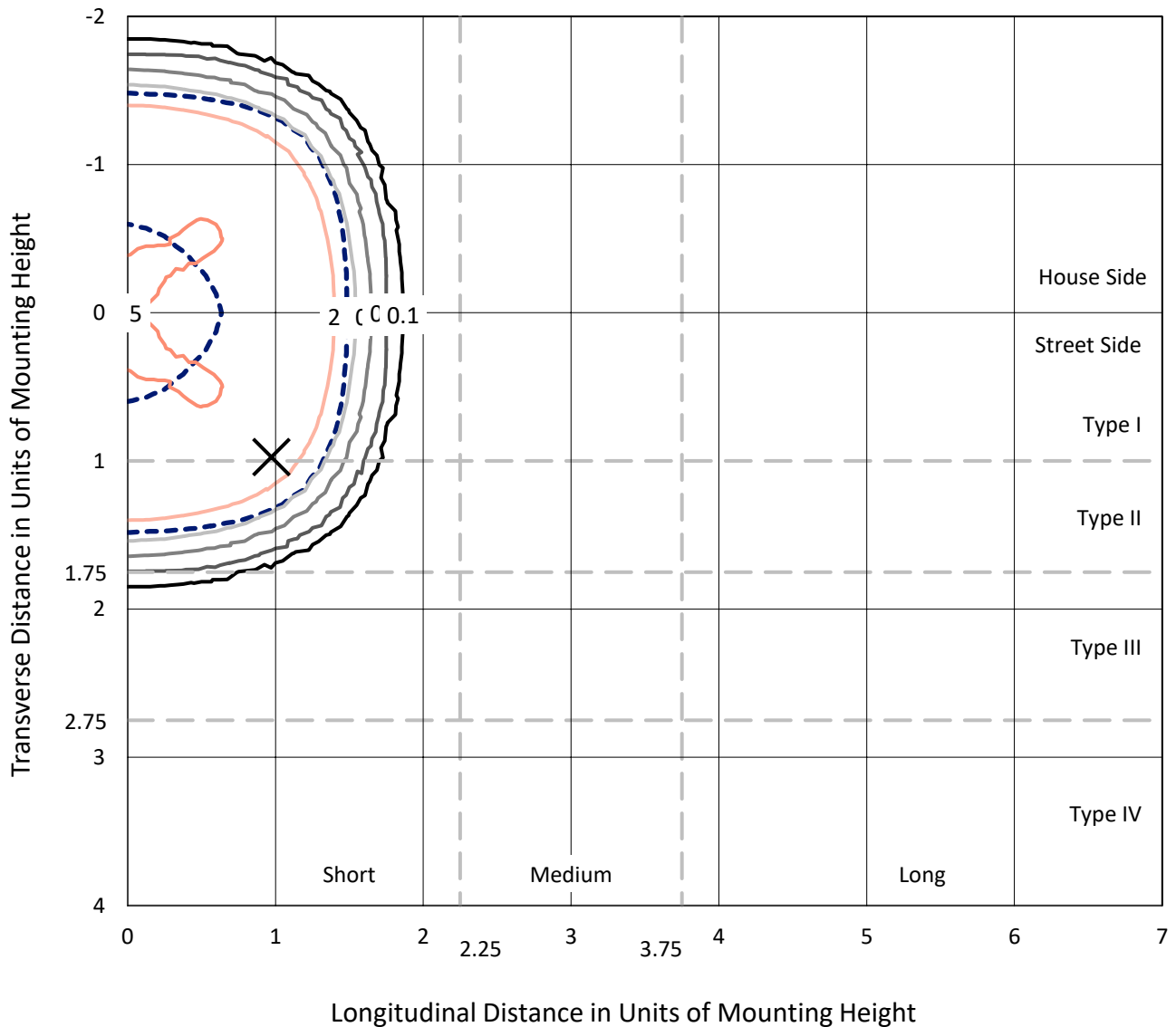
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

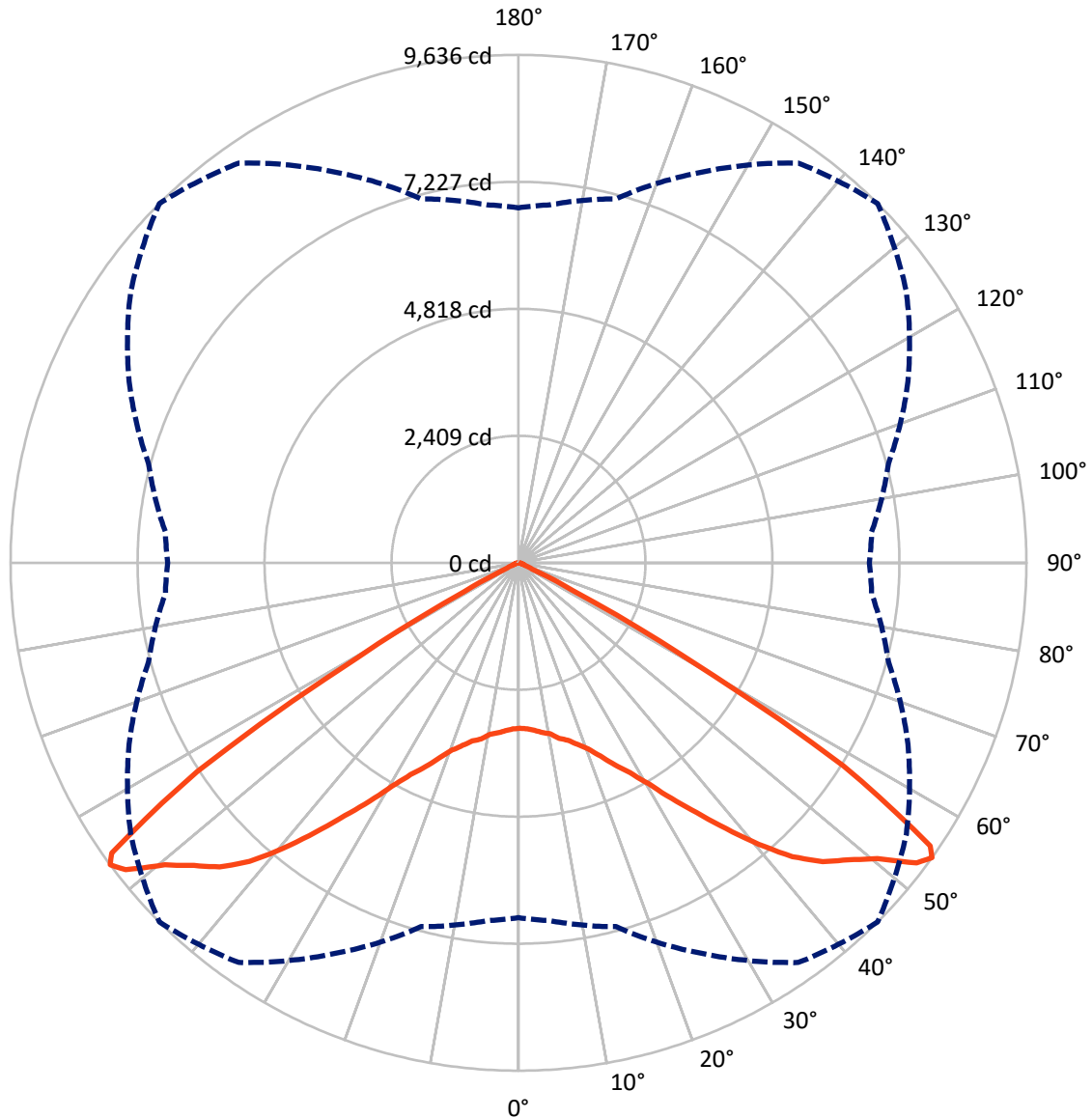
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	9573.0	0.0	9573.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9573.0	0.0	9573.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19146.0	0.0	19146.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.3	1.6
10°-20°	995.0	5.2
20°-30°	1950.2	10.2
30°-40°	3506.9	18.3
40°-50°	6003.2	31.4
50°-60°	5808.7	30.3
60°-70°	497.3	2.6
70°-80°	58.9	0.3
80°-90°	18.5	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°	19146.0	100.0
0°-180°	19146.0	100.0

**Coefficient of Utilization**



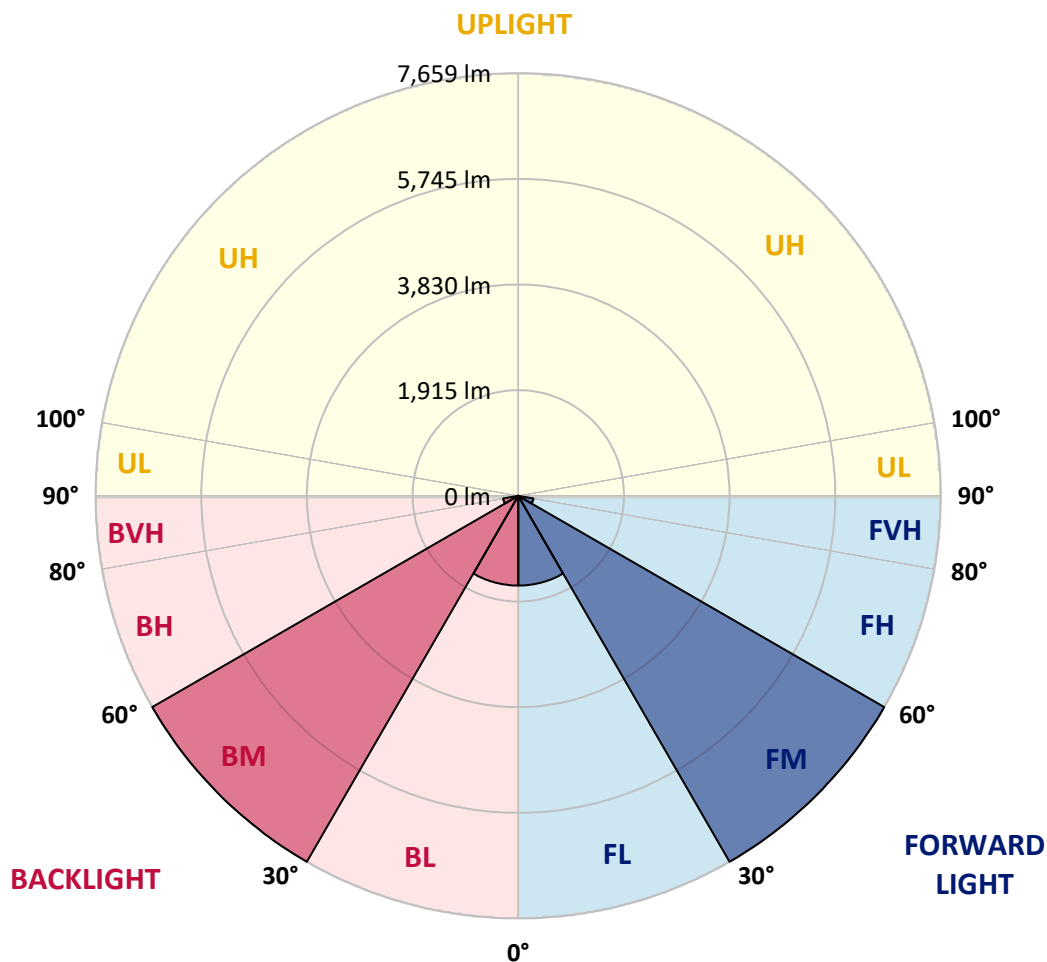
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.3	8.5			
FM (30°-60°)	7659.4	40.0			
FH (60°-80°)	278.1	1.5			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	1626.3	8.5	B3/2500		
BM (30°-60°)	7659.4	40.0	B4/8500		
BH (60°-80°)	278.1	1.5	B1/500		G0/660
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3	3139.3
2.5°	3154.5	3172.7	3160.6	3169.7	3169.7	3154.5	3163.6	3127.2	3151.5	3133.3	3136.3
5°	3203.0	3200.0	3200.0	3203.0	3190.9	3197.0	3184.8	3172.7	3163.6	3151.5	3187.9
7.5°	3263.7	3263.7	3242.5	3248.5	3242.5	3251.6	3227.3	3203.0	3193.9	3184.8	3178.8
10°	3321.3	3315.3	3306.2	3333.5	3312.2	3300.1	3288.0	3272.8	3239.4	3227.3	3215.2
12.5°	3406.3	3403.2	3391.1	3418.4	3406.3	3418.4	3372.9	3333.5	3327.4	3288.0	3309.2
15°	3506.4	3533.7	3512.4	3512.4	3506.4	3491.2	3473.0	3454.8	3400.2	3385.0	3388.1
17.5°	3636.8	3627.7	3630.7	3630.7	3661.1	3621.6	3585.2	3539.7	3512.4	3503.3	3473.0
20°	3761.2	3773.3	3770.3	3791.5	3809.7	3767.2	3727.8	3721.7	3645.9	3658.0	3615.6
22.5°	3979.5	3970.4	3985.6	4000.8	3988.6	3982.6	3946.2	3900.7	3833.9	3803.6	3797.5
25°	4210.1	4194.9	4167.6	4204.0	4222.2	4249.5	4179.7	4155.5	4052.3	4006.8	4009.9
27.5°	4407.2	4428.5	4458.8	4473.9	4519.4	4510.3	4461.8	4383.0	4304.1	4252.5	4219.2
30°	4677.2	4689.3	4740.9	4762.1	4841.0	4862.2	4786.4	4695.4	4555.8	4489.1	4449.7
32.5°	4925.9	5010.8	5007.8	5114.0	5241.3	5329.3	5192.8	5053.3	4913.8	4834.9	4765.1
35°	5329.3	5314.1	5402.1	5514.3	5720.6	5820.7	5672.1	5511.3	5299.0	5171.6	5117.0
37.5°	5705.4	5711.5	5829.8	6008.7	6245.3	6400.0	6269.6	6005.7	5787.3	5623.5	5547.7
40°	6251.4	6263.5	6384.9	6588.1	6855.0	7021.8	6870.2	6603.2	6312.1	6184.7	6184.7
42.5°	6891.4	6943.0	7021.8	7197.8	7437.4	7622.4	7485.9	7276.6	6982.4	6818.6	6842.9
45°	7549.6	7573.9	7625.4	7886.3	7998.5	8089.5	7962.1	7865.1	7667.9	7467.7	7434.3
47.5°	8165.3	8174.4	8326.1	8408.0	8496.0	8420.1	8502.0	8374.6	8153.2	7959.1	7919.6
50°	8438.3	8423.2	8638.5	8887.2	8954.0	8820.5	8750.7	8665.8	8329.1	8095.6	7992.4
52.5°	7643.6	7731.6	8132.0	8823.5	9345.2	9457.5	9051.0	8659.7	8031.9	7576.9	7507.1
54°	6733.7	6815.6	7146.2	8171.4	9257.3	9636.4	8981.3	8150.2	7264.5	6724.6	6654.8
55°	5832.8	5741.8	6342.4	7388.8	8844.8	9478.7	8705.2	7492.0	6478.9	5984.5	5887.4
57.5°	3157.5	3172.7	3679.3	4668.1	6215.0	7267.5	6418.2	5068.5	3827.9	3272.8	3224.3
60°	1001.0	1025.2	1246.6	1886.6	2969.5	3545.8	3039.3	2035.3	1407.4	1128.3	1082.8
62.5°	312.4	324.6	354.9	527.8	812.9	1161.7	910.0	546.0	406.4	373.1	379.1
65°	191.1	191.1	194.1	206.3	242.7	282.1	273.0	239.6	230.5	224.5	221.4
67.5°	124.4	121.3	127.4	136.5	142.6	145.6	154.7	163.8	160.8	154.7	154.7
70°	75.8	72.8	78.9	91.0	94.0	100.1	109.2	121.3	118.3	112.2	115.3
72.5°	42.5	42.5	45.5	54.6	63.7	69.8	78.9	88.0	91.0	88.0	88.0
75°	15.2	18.2	24.3	33.4	39.4	48.5	57.6	66.7	75.8	69.8	66.7
77.5°	6.1	6.1	12.1	21.2	30.3	39.4	54.6	63.7	69.8	63.7	57.6
80°	3.0	3.0	9.1	18.2	27.3	36.4	45.5	54.6	57.6	51.6	45.5
82.5°	3.0	3.0	9.1	18.2	27.3	33.4	48.5	54.6	60.7	54.6	45.5
85°	0.0	3.0	9.1	18.2	24.3	27.3	27.3	18.2	15.2	9.1	9.1
87.5°	0.0	0.0	3.0	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)