

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: P454860

Luminaire Tested: **GALN-SA6A-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25774 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

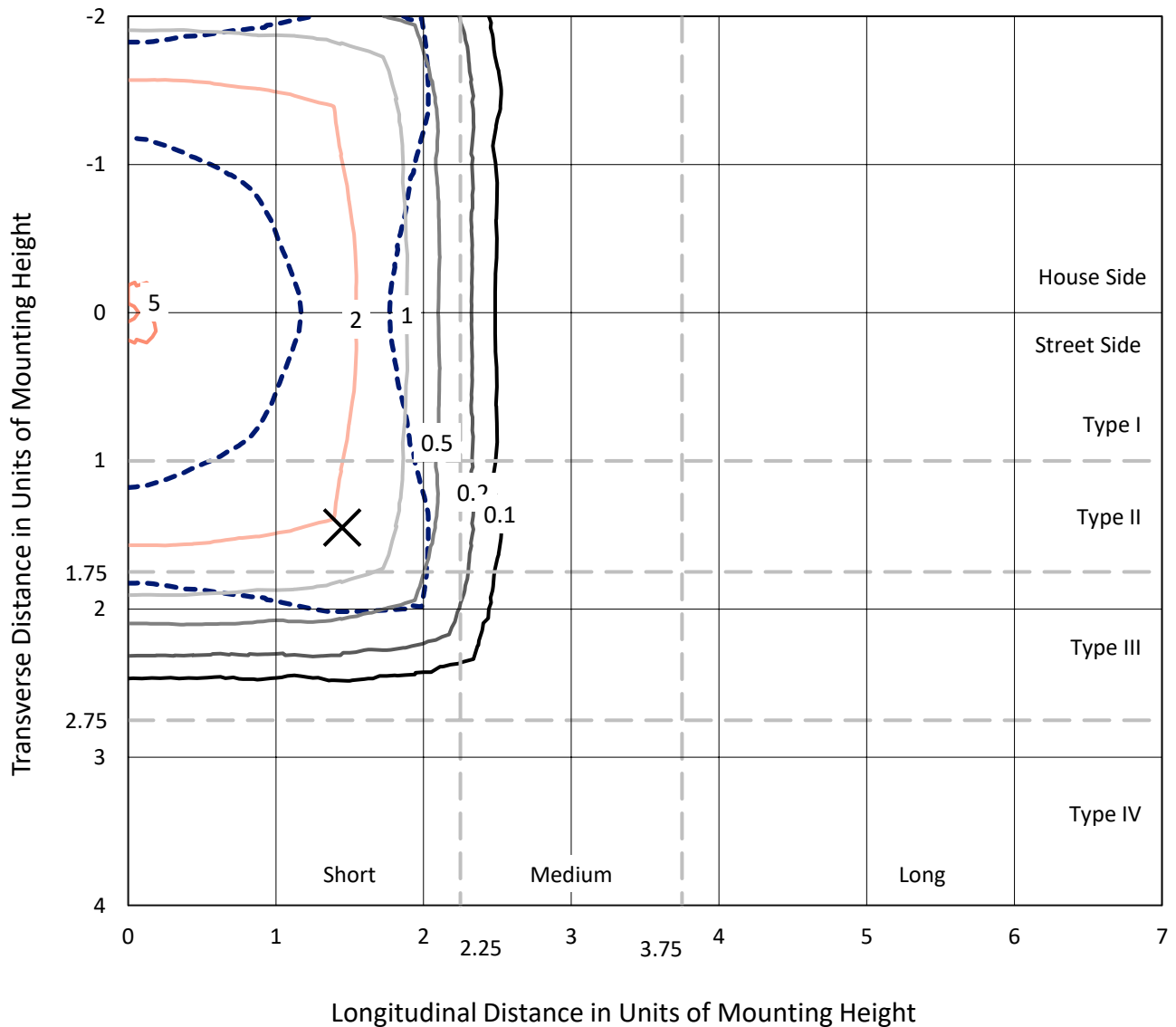
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

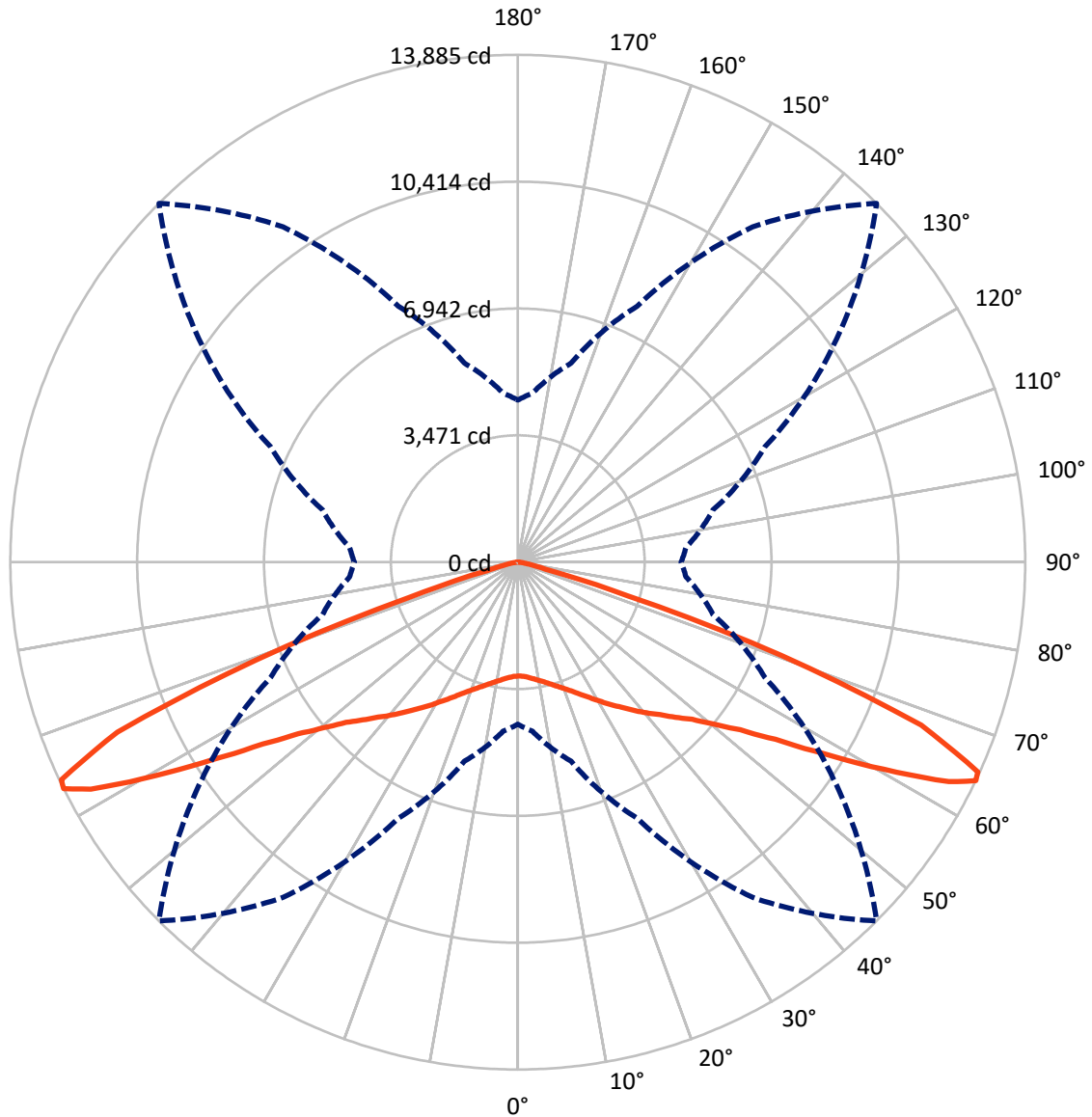
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12887.0	0.0	12887.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12887.0	0.0	12887.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25774.0	0.0	25774.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	1.2
10°-20°	987.2	3.8
20°-30°	1865.5	7.2
30°-40°	3089.5	12.0
40°-50°	4823.3	18.7
50°-60°	7456.7	28.9
60°-70°	6429.8	24.9
70°-80°	728.7	2.8
80°-90°	87.3	0.3
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°	25774.0	100.0
0°-180°	25774.0	100.0

**Coefficient of Utilization**



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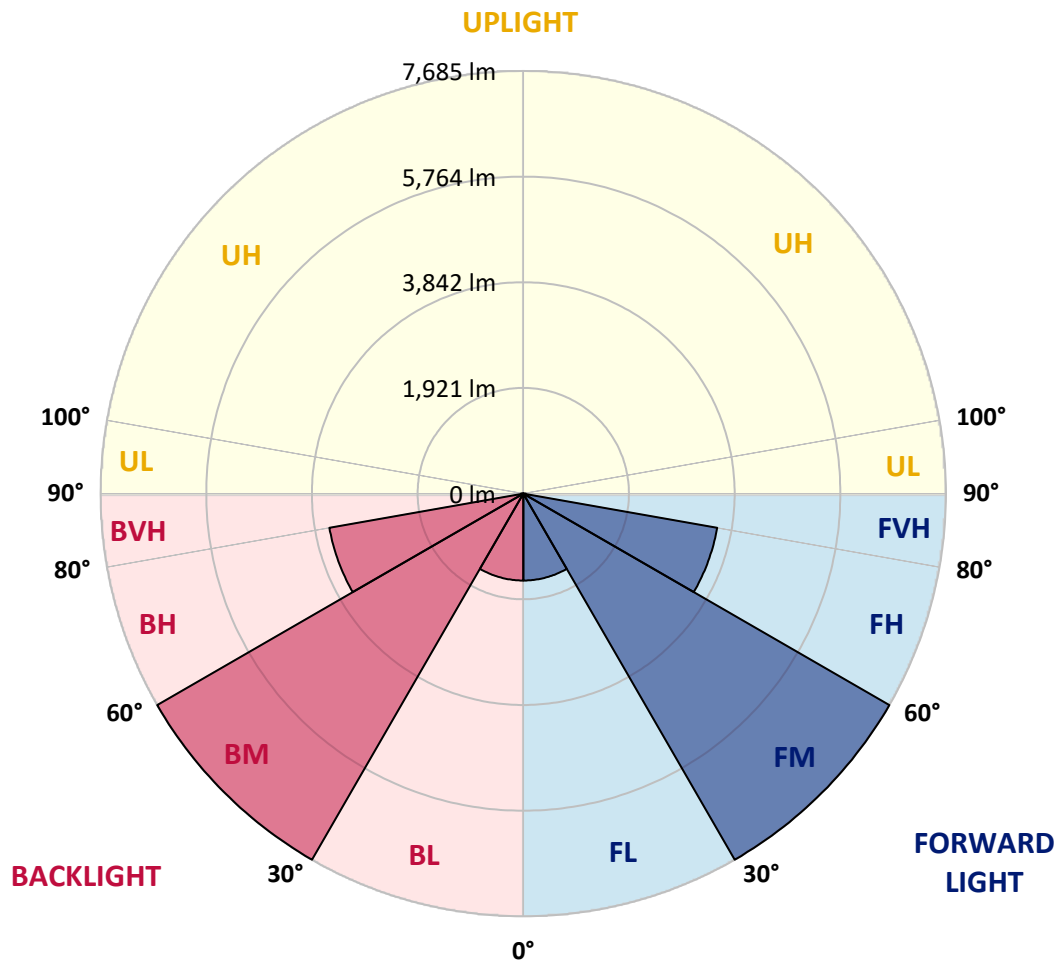
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1579.4	6.1			
FM	(30°-60°)	7684.7	29.8			
FH	(60°-80°)	3579.2	13.9			G2/5000
FVH	(80°-90°)	43.6	0.2			G1/100
BL	(0°-30°)	1579.4	6.1	B3/2500		
BM	(30°-60°)	7684.7	29.8	B4/8500		
BH	(60°-80°)	3579.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	43.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2	3115.2
2.5°	3127.5	3134.3	3128.9	3127.5	3126.1	3126.1	3126.1	3127.5	3133.0	3137.1	3134.3
5°	3167.1	3172.6	3169.8	3168.5	3167.1	3168.5	3165.7	3164.4	3168.5	3168.5	3167.1
7.5°	3216.2	3223.1	3220.3	3223.1	3224.4	3225.8	3219.0	3213.5	3212.1	3216.2	3213.5
10°	3283.1	3288.6	3290.0	3291.3	3294.1	3292.7	3284.5	3274.9	3273.6	3272.2	3270.8
12.5°	3358.2	3362.3	3363.7	3369.1	3373.2	3374.6	3365.0	3356.8	3343.2	3345.9	3340.5
15°	3442.9	3451.0	3449.7	3457.9	3468.8	3471.5	3462.0	3448.3	3436.0	3429.2	3425.1
17.5°	3546.6	3552.1	3549.3	3557.5	3571.2	3578.0	3569.8	3552.1	3539.8	3524.8	3516.6
20°	3669.5	3679.0	3681.7	3681.7	3694.0	3700.9	3688.6	3683.1	3664.0	3653.1	3646.3
22.5°	3808.7	3812.8	3821.0	3829.2	3841.5	3838.7	3834.6	3826.5	3808.7	3799.2	3788.2
25°	3965.7	3969.8	3990.3	4008.0	4012.1	4009.4	4003.9	3999.8	3983.4	3961.6	3953.4
27.5°	4148.6	4156.8	4184.1	4200.5	4200.5	4201.9	4190.9	4204.6	4169.1	4143.2	4140.4
30°	4378.0	4383.4	4406.6	4423.0	4414.8	4408.0	4405.3	4418.9	4380.7	4334.3	4323.4
32.5°	4604.6	4623.7	4644.2	4679.7	4651.0	4638.7	4636.0	4645.5	4601.8	4550.0	4535.0
35°	4847.6	4861.2	4899.4	4929.5	4903.5	4874.9	4887.2	4917.2	4865.3	4795.7	4793.0
37.5°	5116.5	5128.8	5177.9	5209.3	5190.2	5141.1	5161.5	5197.0	5145.2	5059.2	5041.4
40°	5396.3	5422.3	5483.7	5516.5	5485.1	5419.6	5457.8	5496.0	5449.6	5349.9	5310.3
42.5°	5710.3	5751.3	5840.0	5856.4	5796.3	5707.6	5774.5	5835.9	5803.2	5688.5	5673.5
45°	6077.5	6102.1	6211.3	6246.8	6163.6	6053.0	6136.2	6248.2	6223.6	6091.2	6062.5
47.5°	6488.5	6511.7	6625.0	6678.2	6573.1	6424.3	6574.5	6720.5	6705.5	6563.5	6549.9
50°	6974.4	6979.9	7136.9	7197.0	7091.8	6963.5	7097.3	7278.9	7218.8	7037.2	7034.5
52.5°	7506.8	7513.7	7711.6	7827.6	7768.9	7624.2	7782.6	7893.2	7740.3	7502.7	7485.0
55°	7968.3	8002.4	8272.7	8581.2	8661.7	8556.6	8604.4	8552.5	8175.7	7842.7	7790.8
57.5°	8156.6	8223.5	8634.4	9210.5	9734.7	9890.3	9521.8	9027.6	8349.1	7878.2	7827.6
60°	7696.6	7768.9	8406.5	9499.9	10837.7	11513.5	10477.4	9108.1	7954.6	7292.5	7213.3
62.5°	6163.6	6184.0	7121.9	8818.7	11480.7	13230.8	10880.1	8421.5	6806.5	5906.9	5875.5
64°	4435.3	4645.5	5639.3	7732.1	11199.5	13884.7	10648.0	7459.1	5528.8	4618.2	4470.8
65°	3317.3	3374.6	4545.9	6603.1	10704.0	13835.6	10197.5	6539.0	4578.6	3534.3	3370.5
67.5°	1253.2	1260.0	1677.7	3291.3	7620.1	11903.9	7782.6	3557.5	1928.9	1395.2	1344.7
70°	520.1	529.7	615.7	1107.1	3274.9	7643.3	3752.7	1283.2	705.8	572.0	563.8
72.5°	380.9	386.3	412.3	491.4	1007.5	3138.4	1234.1	544.7	413.6	369.9	365.9
75°	299.0	301.7	320.8	361.8	469.6	869.6	513.3	374.0	315.3	283.9	281.2
77.5°	228.0	234.8	248.5	275.8	315.3	412.3	339.9	279.9	243.0	217.1	213.0
80°	157.0	165.2	191.1	202.0	211.6	267.6	232.1	211.6	189.8	158.4	148.8
82.5°	96.9	102.4	128.3	137.9	133.8	150.2	148.8	151.5	135.1	98.3	91.5
85°	50.5	53.2	69.6	72.4	66.9	61.4	76.4	88.7	83.3	56.0	54.6
87.5°	10.9	12.3	15.0	13.7	15.0	15.0	19.1	28.7	30.0	19.1	17.7
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)