

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: P456716

Luminaire Tested: **GALN-SA8A-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456716  
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-SA8A-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 35098 lumens  
Efficiency: N/A  
Efficacy: 143.8 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

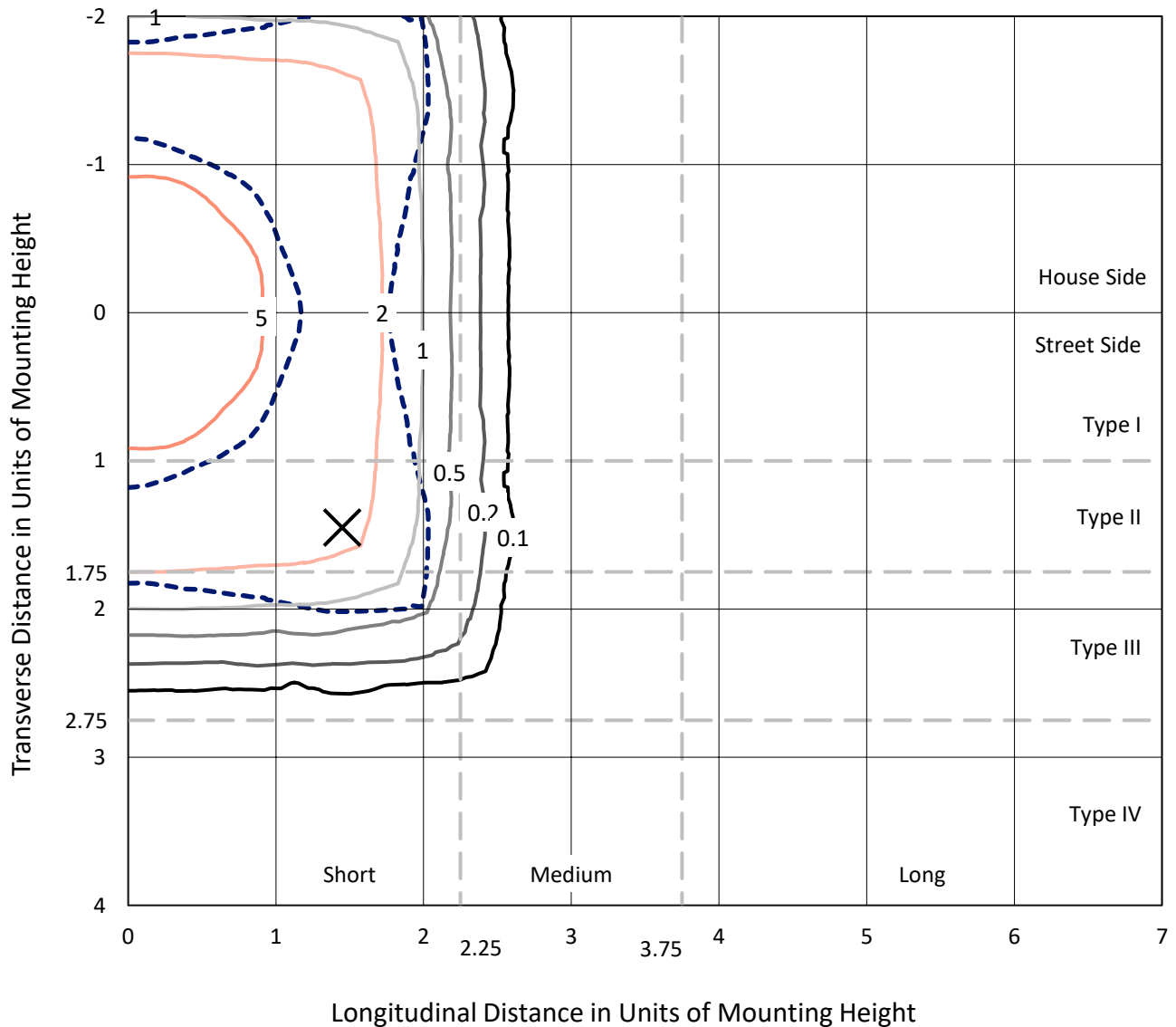
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456716  
 CATALOG NUMBER: GALN-SA8A-730-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

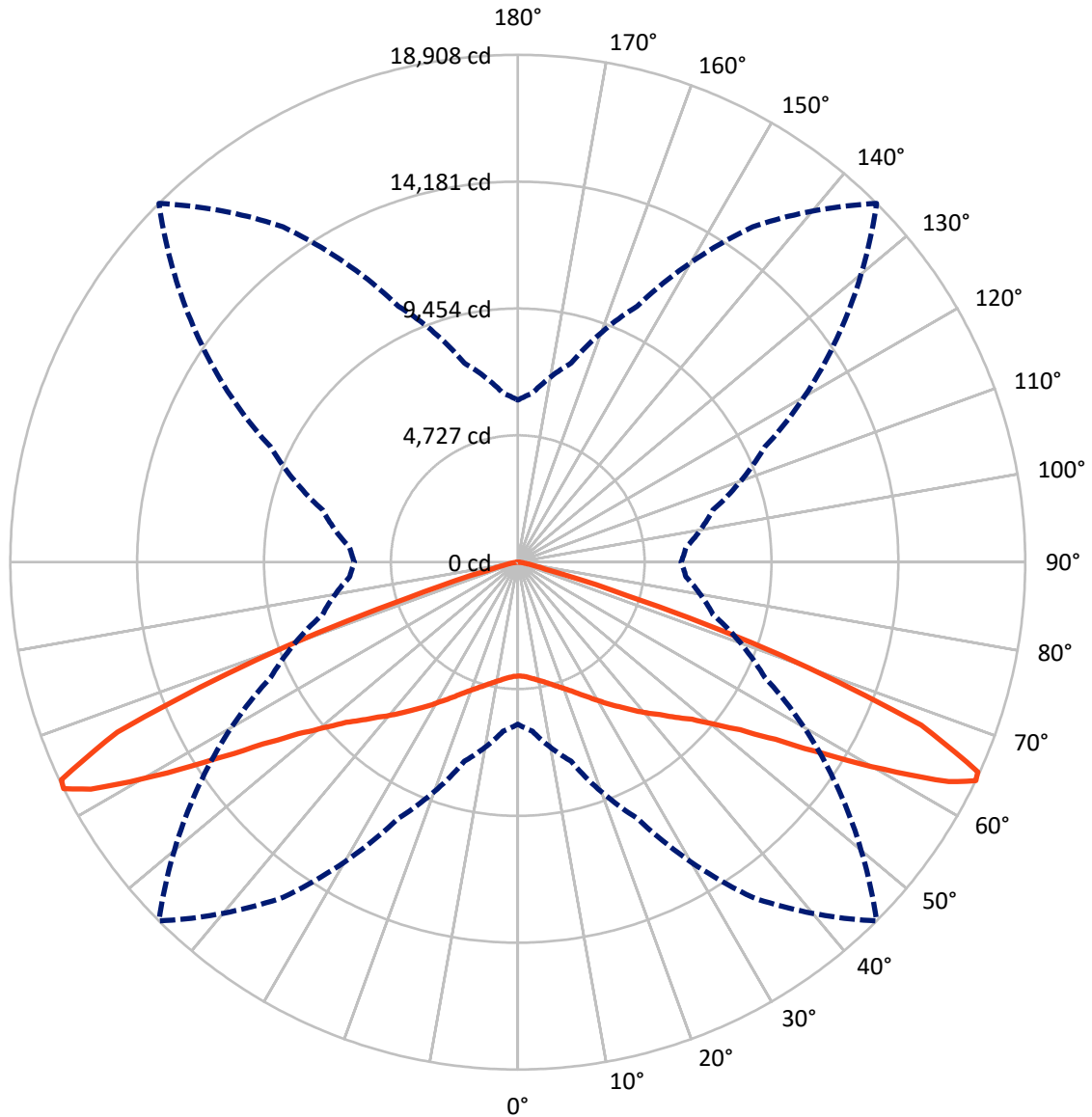
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P456716  
CATALOG NUMBER: GALN-SA8A-730-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456716

CATALOG NUMBER: GALN-SA8A-730-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17549.0	0.0	17549.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17549.0	0.0	17549.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35098.0	0.0	35098.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.8	1.2
10°-20°	1344.3	3.8
20°-30°	2540.4	7.2
30°-40°	4207.2	12.0
40°-50°	6568.1	18.7
50°-60°	10154.2	28.9
60°-70°	8755.8	24.9
70°-80°	992.3	2.8
80°-90°	118.9	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°	35098.0	100.0
0°-180°	35098.0	100.0



REPORT NUMBER: P456716

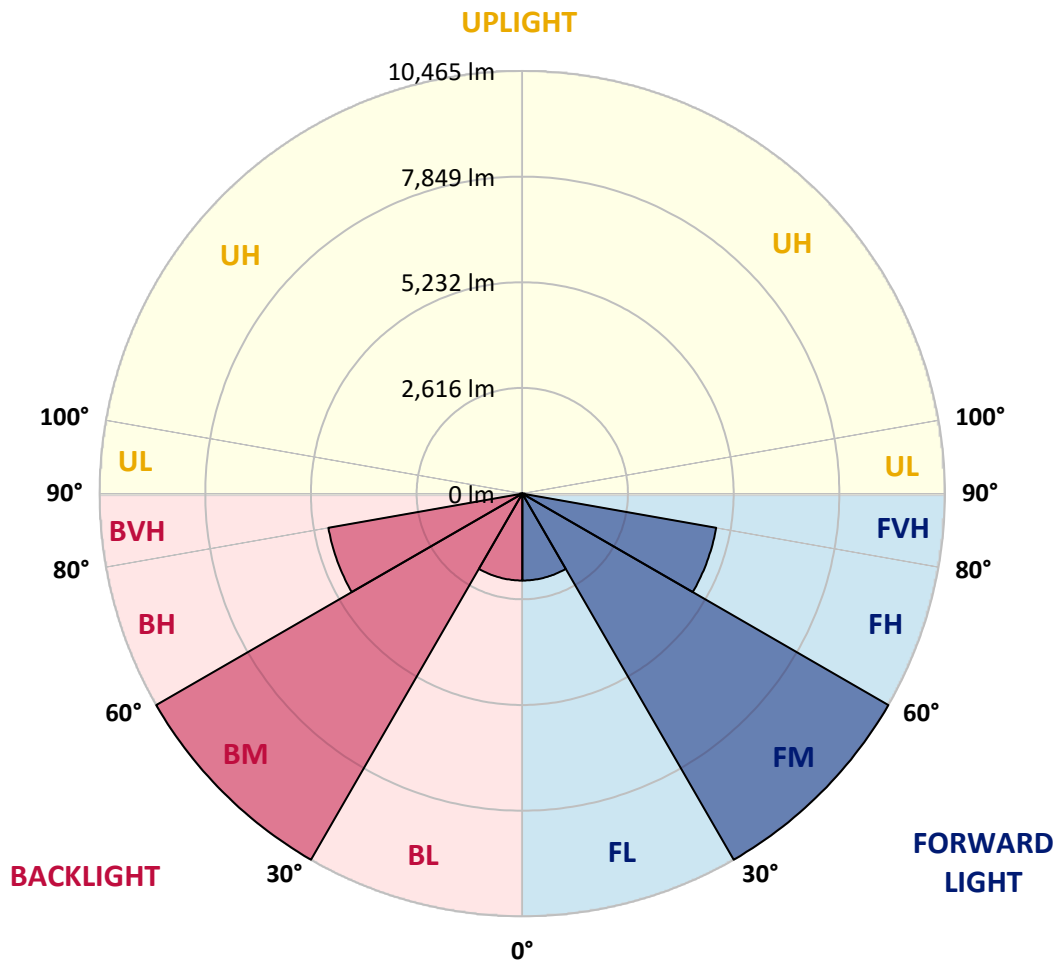
CATALOG NUMBER: GALN-SA8A-730-U-5NQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2150.8	6.1			
FM	(30°-60°)	10464.8	29.8			
FH	(60°-80°)	4874.0	13.9			G2/5000
FVH	(80°-90°)	59.4	0.2			G1/100
BL	(0°-30°)	2150.8	6.1	B3/2500		
BM	(30°-60°)	10464.8	29.8	B5		
BH	(60°-80°)	4874.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	59.4	0.2			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





REPORT NUMBER: P456716  
 CATALOG NUMBER: GALN-SA8A-730-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2
2.5°	4258.9	4268.2	4260.8	4258.9	4257.1	4257.1	4258.9	4266.4	4271.9	4268.2	4268.2
5°	4312.8	4320.3	4316.5	4314.7	4312.8	4314.7	4311.0	4309.1	4314.7	4314.7	4312.8
7.5°	4379.7	4389.0	4385.3	4389.0	4390.9	4392.8	4383.5	4376.0	4374.2	4379.7	4376.0
10°	4470.8	4478.3	4480.1	4482.0	4485.7	4483.9	4472.7	4459.7	4457.8	4456.0	4454.1
12.5°	4573.1	4578.7	4580.5	4588.0	4593.5	4595.4	4582.4	4571.2	4552.6	4556.4	4548.9
15°	4688.3	4699.5	4697.6	4708.8	4723.7	4727.4	4714.4	4695.8	4679.0	4669.7	4664.2
17.5°	4829.6	4837.1	4833.3	4844.5	4863.1	4872.4	4861.2	4837.1	4820.3	4799.9	4788.7
20°	4996.9	5009.9	5013.7	5013.7	5030.4	5039.7	5023.0	5015.5	4989.5	4974.6	4965.3
22.5°	5186.5	5192.1	5203.3	5214.4	5231.2	5227.4	5221.9	5210.7	5186.5	5173.5	5158.7
25°	5400.3	5405.9	5433.8	5458.0	5463.5	5459.8	5452.4	5446.8	5424.5	5394.7	5383.6
27.5°	5649.4	5660.6	5697.8	5720.1	5720.1	5721.9	5707.1	5725.6	5677.3	5642.0	5638.3
30°	5961.7	5969.2	6000.8	6023.1	6011.9	6002.6	5998.9	6017.5	5965.5	5902.2	5887.4
32.5°	6270.3	6296.4	6324.2	6372.6	6333.5	6316.8	6313.1	6326.1	6266.6	6196.0	6175.5
35°	6601.2	6619.8	6671.9	6712.8	6677.4	6638.4	6655.1	6696.0	6625.4	6530.6	6526.9
37.5°	6967.4	6984.2	7051.1	7093.9	7067.8	7000.9	7028.8	7077.1	7006.5	6889.4	6865.2
40°	7348.5	7383.9	7467.5	7512.1	7469.4	7380.1	7432.2	7484.2	7421.0	7285.3	7231.4
42.5°	7776.1	7831.9	7952.7	7975.0	7893.2	7772.4	7863.5	7947.1	7902.5	7746.4	7725.9
45°	8276.2	8309.6	8458.3	8506.7	8393.3	8242.7	8356.1	8508.5	8475.1	8294.8	8255.7
47.5°	8835.7	8867.3	9021.6	9094.1	8951.0	8748.3	8952.8	9151.7	9131.3	8938.0	8919.4
50°	9497.5	9504.9	9718.7	9800.5	9657.4	9482.6	9664.8	9912.1	9830.3	9583.0	9579.3
52.5°	10222.5	10231.8	10501.4	10659.4	10579.4	10382.4	10598.0	10748.6	10540.4	10216.9	10192.8
55°	10850.8	10897.3	11265.4	11685.5	11795.2	11652.1	11717.1	11646.5	11133.4	10679.8	10609.2
57.5°	11107.4	11198.5	11758.0	12542.5	13256.4	13468.3	12966.4	12293.4	11369.5	10728.2	10659.4
60°	10480.9	10579.4	11447.6	12936.6	14758.4	15678.6	14267.6	12403.1	10832.3	9930.7	9822.8
62.5°	8393.3	8421.2	9698.3	12009.0	15634.0	18017.2	14816.0	11468.0	9268.9	8043.8	8001.0
64°	6039.8	6326.1	7679.4	10529.2	15251.0	18907.6	14500.0	10157.4	7528.9	6288.9	6088.1
65°	4517.3	4595.4	6190.4	8991.9	14576.2	18840.7	13886.6	8904.5	6235.0	4812.9	4589.8
67.5°	1706.5	1715.8	2284.7	4482.0	10376.8	16210.3	10598.0	4844.5	2626.7	1899.9	1831.1
70°	708.3	721.3	838.4	1507.6	4459.7	10408.4	5110.3	1747.4	961.1	778.9	767.8
72.5°	518.7	526.1	561.4	669.2	1371.9	4273.8	1680.5	741.7	563.3	503.8	498.2
75°	407.1	410.8	436.9	492.6	639.5	1184.2	699.0	509.4	429.4	386.7	382.9
77.5°	310.4	319.7	338.3	375.5	429.4	561.4	462.9	381.1	330.9	295.6	290.0
80°	213.8	224.9	260.3	275.1	288.1	364.4	316.0	288.1	258.4	215.6	202.6
82.5°	132.0	139.4	174.7	187.8	182.2	204.5	202.6	206.3	184.0	133.8	124.6
85°	68.8	72.5	94.8	98.5	91.1	83.7	104.1	120.8	113.4	76.2	74.4
87.5°	14.9	16.7	20.4	18.6	20.4	20.4	26.0	39.0	40.9	26.0	24.2
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)