

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: P455121

Luminaire Tested: **GALN-SA6B-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455121
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-SA6B-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35214 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

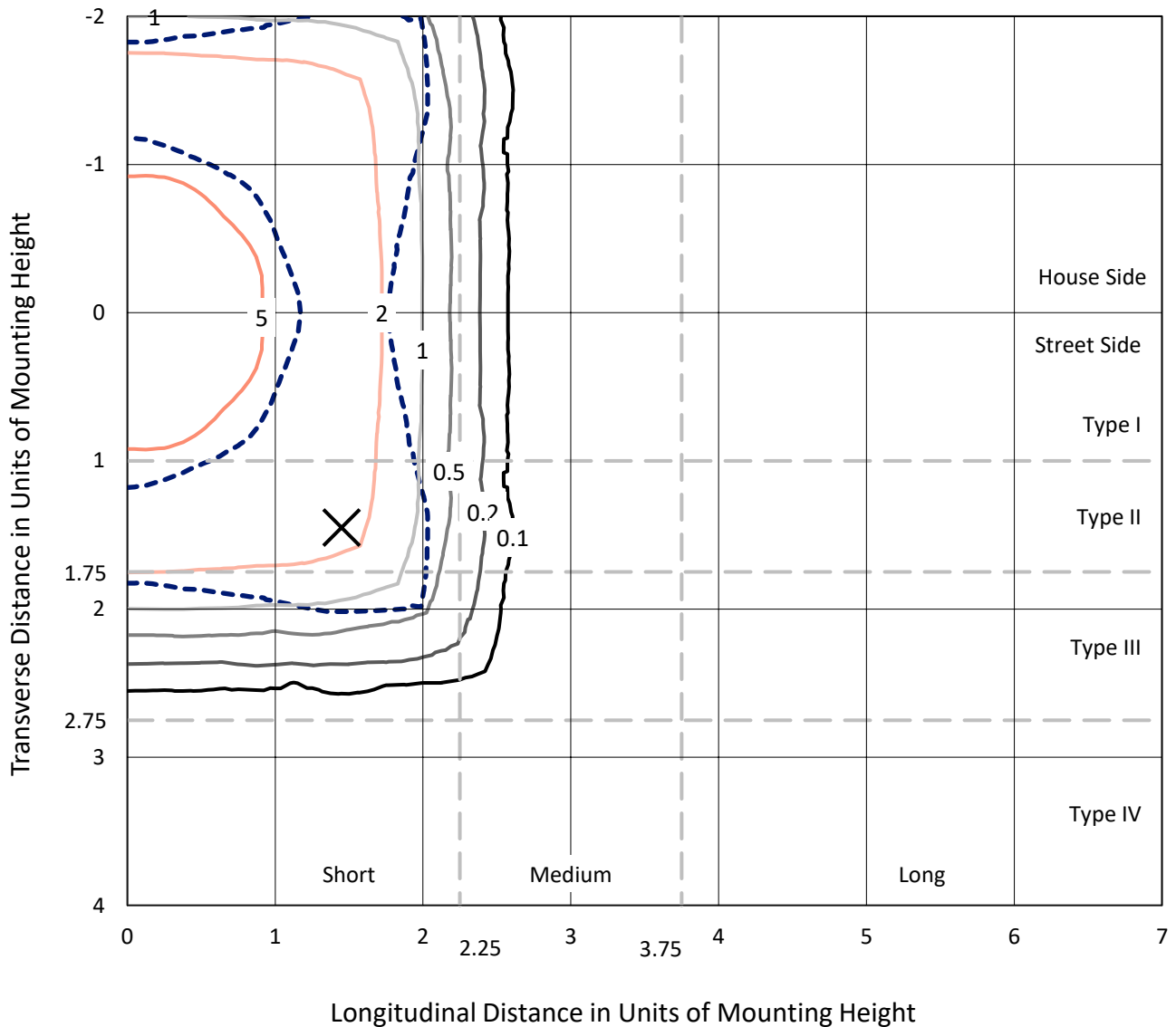
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

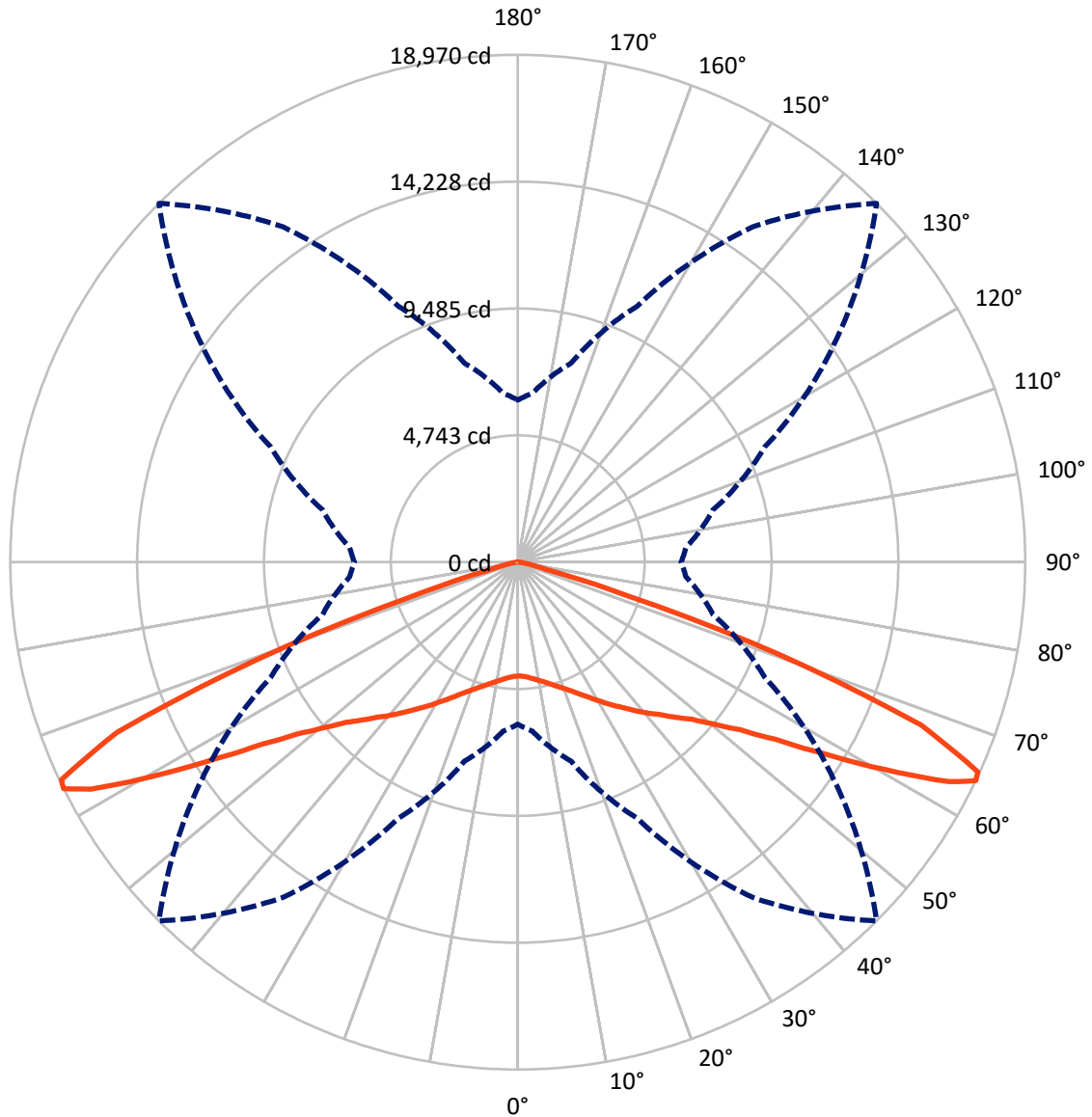
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
House Side	Lumens	17607.0	0.0	17607.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17607.0	0.0	17607.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35214.0	0.0	35214.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.1	1.2
10°-20°	1348.8	3.8
20°-30°	2548.8	7.2
30°-40°	4221.1	12.0
40°-50°	6589.8	18.7
50°-60°	10187.7	28.9
60°-70°	8784.8	24.9
70°-80°	995.5	2.8
80°-90°	119.3	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°	35214.0	100.0
0°-180°	35214.0	100.0



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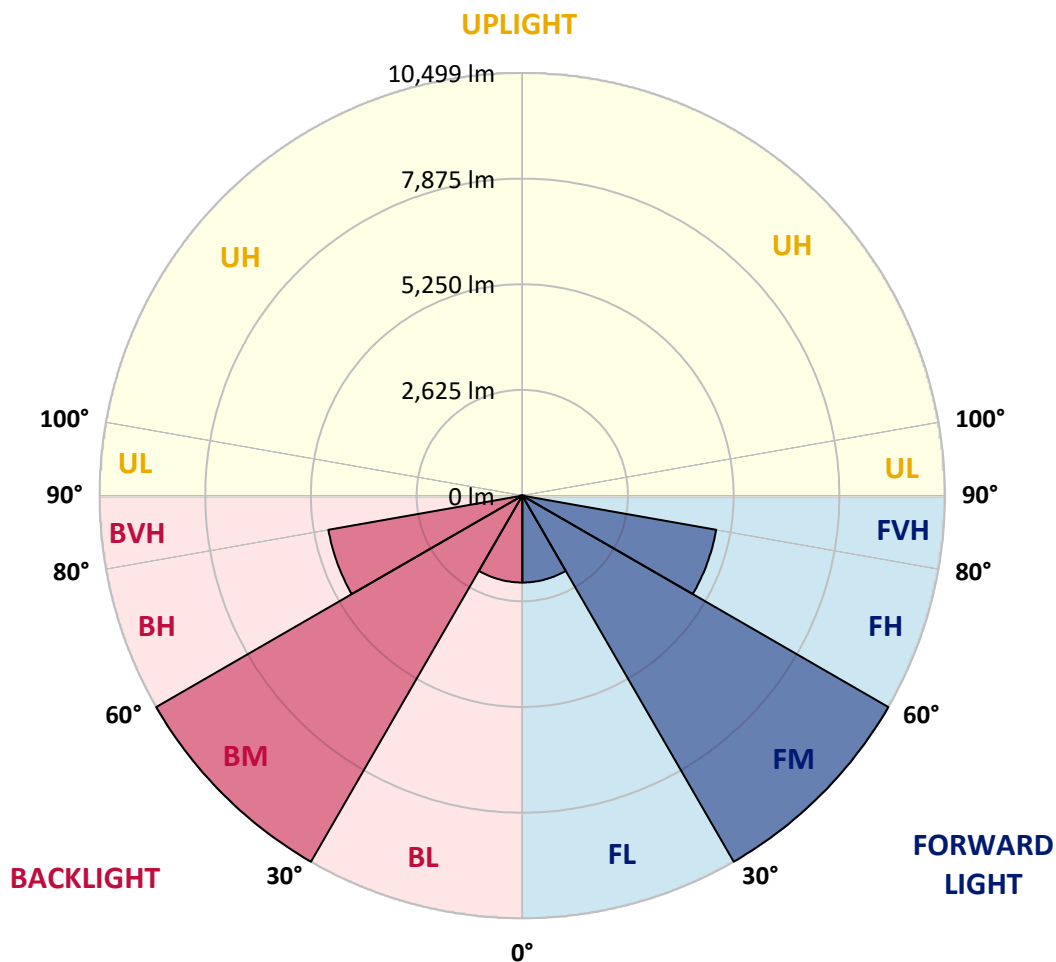
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2157.9	6.1			
FM	(30°-60°)	10499.4	29.8			
FH	(60°-80°)	4890.2	13.9			G2/5000
FVH	(80°-90°)	59.6	0.2			G1/100
BL	(0°-30°)	2157.9	6.1	B3/2500		
BM	(30°-60°)	10499.4	29.8	B5		
BH	(60°-80°)	4890.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	59.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2	4256.2
2.5°	4273.0	4282.3	4274.9	4273.0	4271.1	4271.1	4271.1	4273.0	4280.5	4286.0	4282.3
5°	4327.1	4334.5	4330.8	4328.9	4327.1	4328.9	4325.2	4323.3	4328.9	4328.9	4327.1
7.5°	4394.2	4403.5	4399.8	4403.5	4405.4	4407.3	4398.0	4390.5	4388.6	4394.2	4390.5
10°	4485.6	4493.1	4494.9	4496.8	4500.5	4498.7	4487.5	4474.4	4472.6	4470.7	4468.8
12.5°	4588.2	4593.8	4595.7	4603.1	4608.7	4610.6	4597.5	4586.3	4567.7	4571.4	4563.9
15°	4703.8	4715.0	4713.2	4724.3	4739.3	4743.0	4729.9	4711.3	4694.5	4685.2	4679.6
17.5°	4845.6	4853.0	4849.3	4860.5	4879.2	4888.5	4877.3	4853.0	4836.3	4815.7	4804.5
20°	5013.4	5026.5	5030.2	5030.2	5047.0	5056.3	5039.6	5032.1	5006.0	4991.1	4981.7
22.5°	5203.7	5209.3	5220.5	5231.7	5248.4	5244.7	5239.1	5227.9	5203.7	5190.6	5175.7
25°	5418.2	5423.8	5451.7	5476.0	5481.6	5477.9	5470.4	5464.8	5442.4	5412.6	5401.4
27.5°	5668.1	5679.3	5716.6	5739.0	5739.0	5740.8	5725.9	5744.6	5696.1	5660.6	5656.9
30°	5981.4	5988.9	6020.6	6043.0	6031.8	6022.5	6018.7	6037.4	5985.2	5921.8	5906.8
32.5°	6291.1	6317.2	6345.1	6393.6	6354.5	6337.7	6333.9	6347.0	6287.3	6216.4	6195.9
35°	6623.0	6641.7	6693.9	6734.9	6699.5	6660.3	6677.1	6718.2	6647.3	6552.2	6548.4
37.5°	6990.5	7007.3	7074.4	7117.3	7091.2	7024.0	7052.0	7100.5	7029.6	6912.1	6887.9
40°	7372.8	7408.3	7492.2	7537.0	7494.1	7404.5	7456.8	7509.0	7445.6	7309.4	7255.3
42.5°	7801.8	7857.8	7979.0	8001.4	7919.3	7798.1	7889.5	7973.4	7928.6	7772.0	7751.4
45°	8303.5	8337.1	8486.3	8534.8	8421.0	8269.9	8383.7	8536.7	8503.1	8322.2	8283.0
47.5°	8864.9	8896.6	9051.4	9124.2	8980.6	8777.3	8982.4	9182.0	9161.5	8967.5	8948.8
50°	9528.9	9536.4	9750.8	9832.9	9689.3	9514.0	9696.8	9944.8	9862.8	9614.7	9611.0
52.5°	10256.3	10265.6	10536.1	10694.6	10614.4	10416.7	10633.0	10784.1	10575.2	10250.7	10226.5
55°	10886.7	10933.3	11302.6	11724.1	11834.2	11690.6	11755.9	11685.0	11170.2	10715.1	10644.2
57.5°	11144.1	11235.5	11796.9	12584.0	13300.2	13512.8	13009.2	12334.0	11407.1	10763.6	10694.6
60°	10515.5	10614.4	11485.4	12979.4	14807.2	15730.4	14314.8	12444.1	10868.1	9963.5	9855.3
62.5°	8421.0	8449.0	9730.3	12048.7	15685.7	18076.7	14865.0	11505.9	9299.5	8070.4	8027.5
64°	6059.8	6347.0	7704.8	10564.0	15301.4	18970.1	14547.9	10191.0	7553.7	6309.7	6108.3
65°	4532.2	4610.6	6210.8	9021.6	14624.4	18903.0	13932.4	8933.9	6255.6	4828.8	4605.0
67.5°	1712.2	1721.5	2292.2	4496.8	10411.1	16263.8	10633.0	4860.5	2635.4	1906.2	1837.1
70°	710.6	723.7	841.2	1512.6	4474.4	10442.8	5127.2	1753.2	964.3	781.5	770.3
72.5°	520.4	527.8	563.3	671.4	1376.5	4287.9	1686.1	744.2	565.1	505.4	499.9
75°	408.5	412.2	438.3	494.3	641.6	1188.1	701.3	511.0	430.8	387.9	384.2
77.5°	311.5	320.8	339.5	376.8	430.8	563.3	464.4	382.3	332.0	296.6	291.0
80°	214.5	225.7	261.1	276.0	289.1	365.6	317.1	289.1	259.3	216.4	203.3
82.5°	132.4	139.9	175.3	188.4	182.8	205.2	203.3	207.0	184.6	134.3	125.0
85°	69.0	72.7	95.1	98.9	91.4	83.9	104.4	121.2	113.8	76.5	74.6
87.5°	14.9	16.8	20.5	18.7	20.5	20.5	26.1	39.2	41.0	26.1	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)