

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: P652591

Luminaire Tested: **GALN-SA9B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652591
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-SA9B-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA 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: 29802.5 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

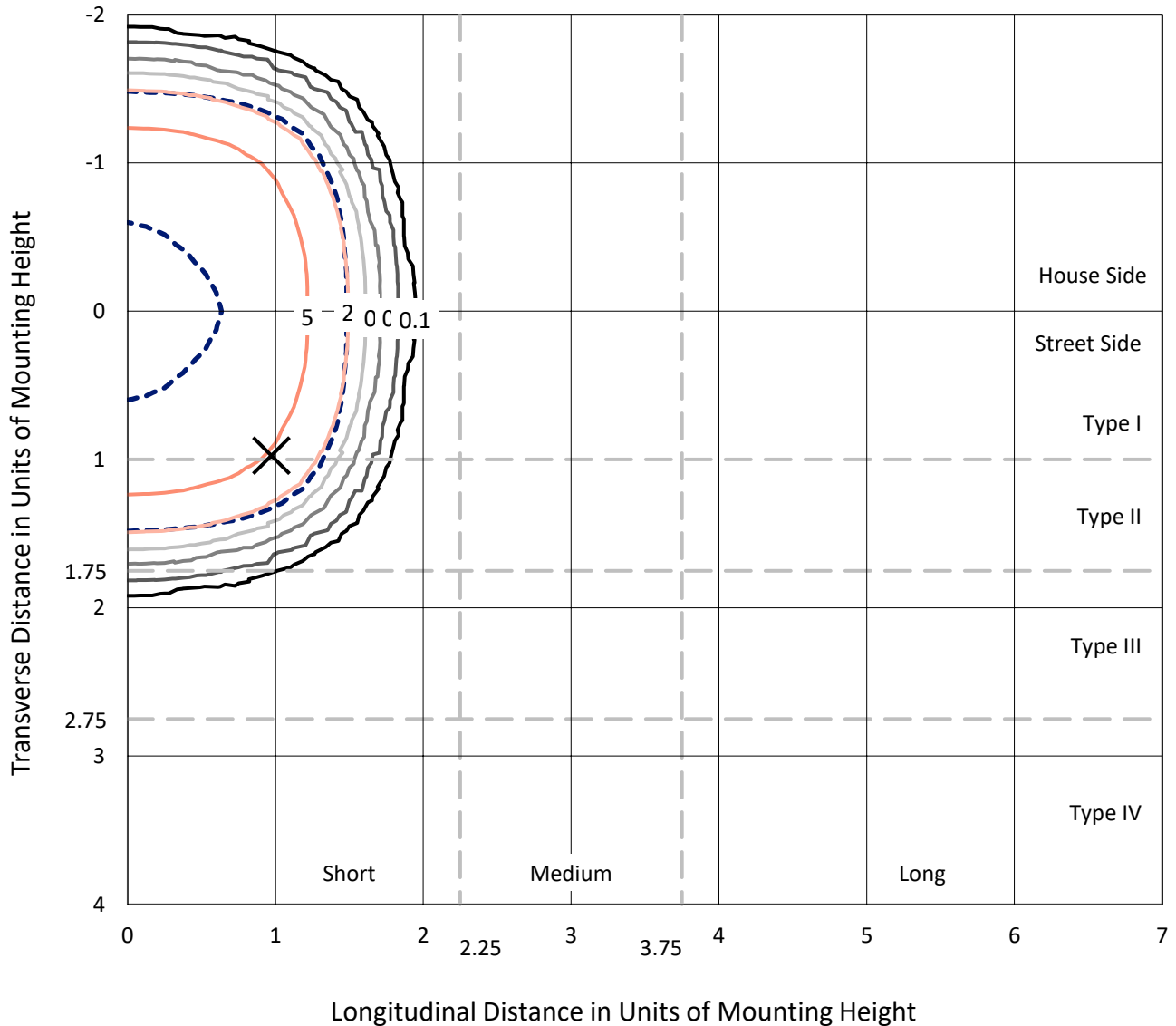
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

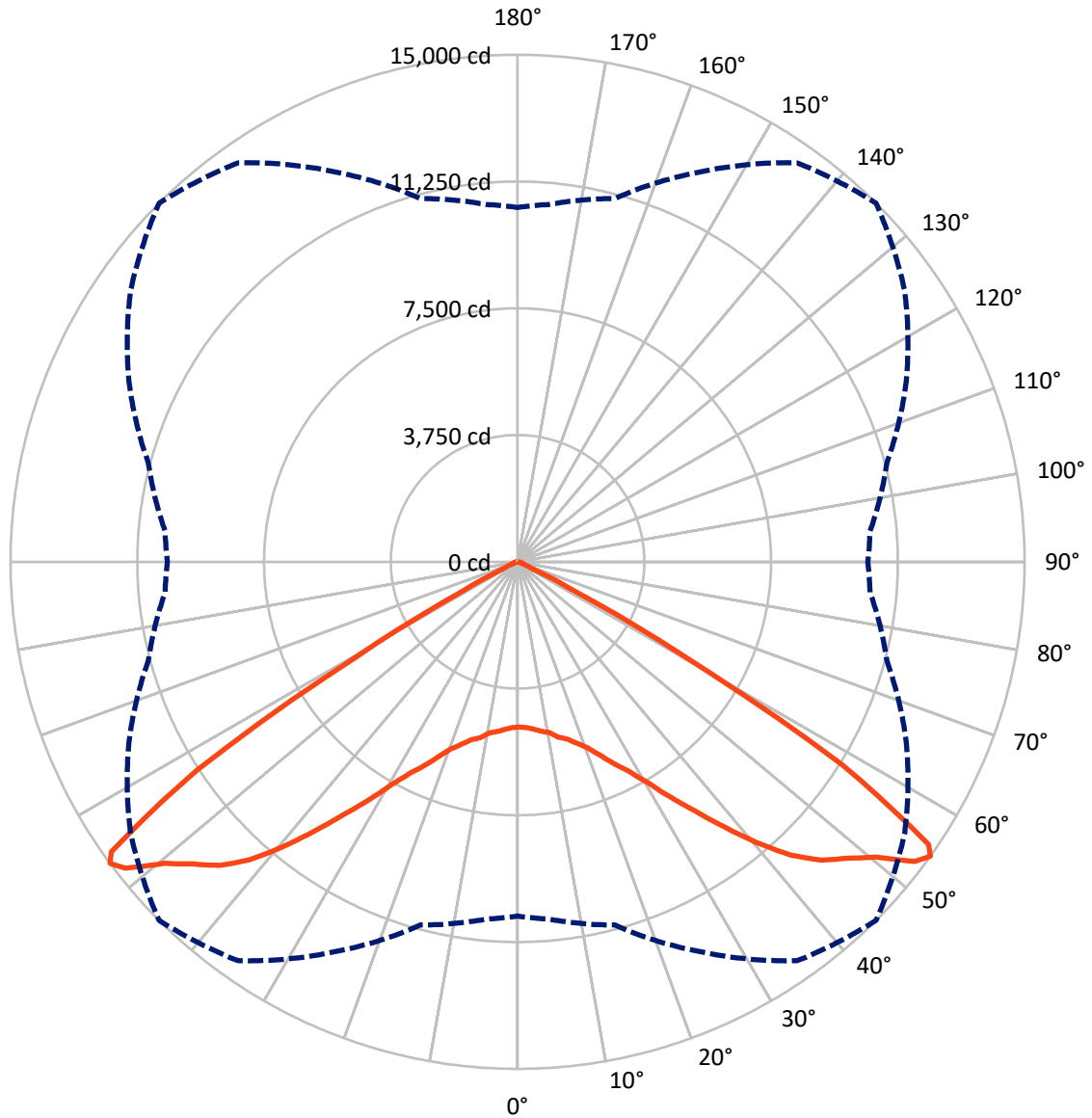
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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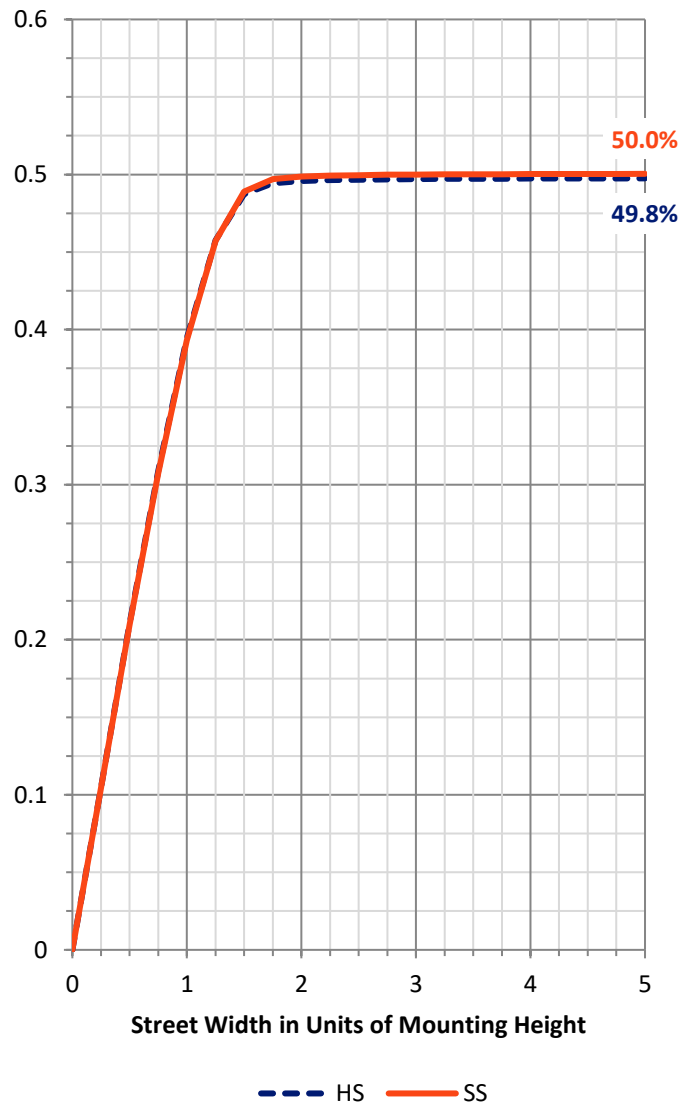
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14901.3	0.0	14901.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14901.3	0.0	14901.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	29802.5	0.0	29802.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.6
10°-20°	1548.9	5.2
20°-30°	3035.7	10.2
30°-40°	5458.9	18.3
40°-50°	9344.5	31.4
50°-60°	9041.7	30.3
60°-70°	774.0	2.6
70°-80°	91.7	0.3
80°-90°	28.8	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°	29802.5	100.0
0°-180°	29802.5	100.0

Coefficient of Utilization



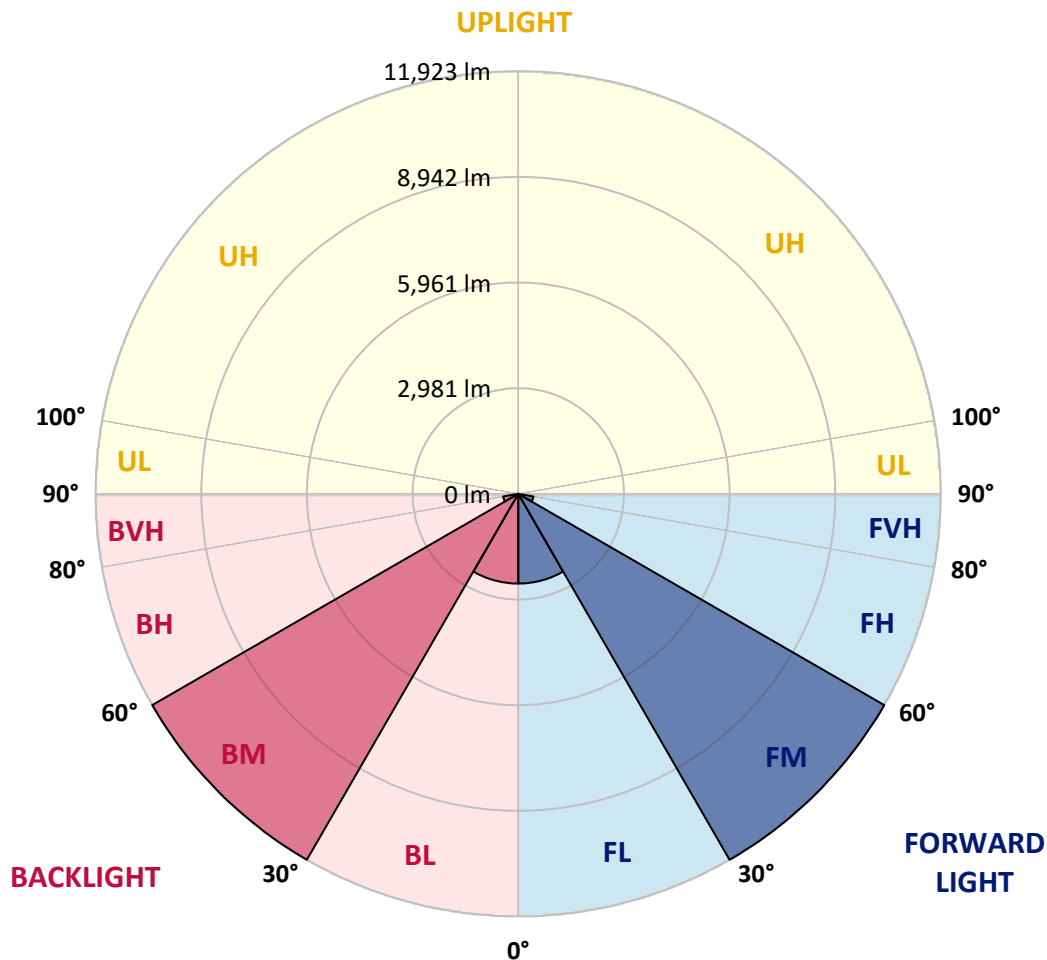
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.4	8.5			
FM (30°-60°)	11922.5	40.0			
FH (60°-80°)	432.9	1.5			G0/660
FVH (80°-90°)	14.4	0.0			G1/100
BL (0°-30°)	2531.4	8.5	B4/5000		
BM (30°-60°)	11922.5	40.0	B5		
BH (60°-80°)	432.9	1.5	B1/500		G0/660
BVH (80°-90°)	14.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7
2.5°	4910.3	4938.6	4919.8	4933.9	4933.9	4910.3	4924.5	4867.8	4905.6	4877.2	4881.9
5°	4985.9	4981.1	4981.1	4985.9	4966.9	4976.4	4957.5	4938.6	4924.5	4905.6	4962.2
7.5°	5080.2	5080.2	5047.2	5056.7	5047.2	5061.4	5023.6	4985.9	4971.7	4957.5	4948.0
10°	5170.0	5160.5	5146.3	5188.9	5155.8	5136.9	5118.1	5094.4	5042.5	5023.6	5004.7
12.5°	5302.2	5297.5	5278.5	5321.1	5302.2	5321.1	5250.2	5188.9	5179.4	5118.1	5151.1
15°	5458.0	5500.5	5467.4	5467.4	5458.0	5434.4	5406.0	5377.7	5292.7	5269.1	5273.8
17.5°	5661.0	5646.8	5651.5	5651.5	5698.8	5637.4	5580.7	5509.9	5467.4	5453.3	5406.0
20°	5854.5	5873.5	5868.8	5901.8	5930.1	5864.0	5802.6	5793.2	5675.2	5694.1	5628.0
22.5°	6194.6	6180.3	6204.0	6227.6	6208.7	6199.3	6142.6	6071.8	5967.9	5920.6	5911.2
25°	6553.3	6529.8	6487.2	6543.9	6572.2	6614.7	6506.1	6468.4	6307.8	6237.0	6241.7
27.5°	6860.2	6893.3	6940.5	6964.2	7035.0	7020.8	6945.2	6822.4	6699.7	6619.4	6567.5
30°	7280.5	7299.4	7379.6	7412.7	7535.4	7568.5	7450.4	7308.8	7091.6	6987.7	6926.3
32.5°	7667.6	7799.8	7795.1	7960.3	8158.6	8295.5	8083.1	7865.9	7648.7	7525.9	7417.4
35°	8295.5	8272.0	8408.9	8583.6	8904.6	9060.4	8829.1	8578.9	8248.4	8050.1	7965.0
37.5°	8881.0	8890.5	9074.6	9353.2	9721.5	9962.2	9759.2	9348.5	9008.5	8753.5	8635.5
40°	9730.9	9749.8	9938.6	10255.0	10670.4	10930.1	10694.1	10278.5	9825.3	9627.0	9627.0
42.5°	10727.1	10807.4	10930.1	11204.0	11577.0	11865.0	11652.5	11326.8	10868.7	10613.8	10651.5
45°	11751.6	11789.4	11869.7	12275.7	12450.4	12592.0	12393.7	12242.7	11935.8	11624.1	11572.2
47.5°	12710.1	12724.2	12960.3	13087.8	13224.7	13106.7	13234.1	13035.9	12691.2	12389.0	12327.6
50°	13135.0	13111.4	13446.7	13833.8	13937.6	13729.9	13621.3	13489.1	12965.0	12601.5	12441.0
52.5°	11898.0	12035.0	12658.1	13734.6	14546.8	14721.5	14088.8	13479.7	12502.4	11794.2	11685.5
54°	10481.6	10609.0	11123.7	12719.5	14409.8	15000.0	13980.2	12686.5	11307.8	10467.4	10358.8
55°	9079.4	8937.6	9872.5	11501.4	13767.7	14754.5	13550.5	11662.0	10085.0	9315.4	9164.3
57.5°	4915.0	4938.6	5727.1	7266.3	9674.2	11312.5	9990.6	7889.5	5958.5	5094.4	5018.9
60°	1558.0	1595.9	1940.5	2936.8	4622.3	5519.3	4730.9	3168.0	2190.7	1756.3	1685.5
62.5°	486.3	505.2	552.4	821.5	1265.4	1808.3	1416.4	849.8	632.7	580.7	590.2
65°	297.5	297.5	302.2	321.1	377.7	439.1	425.0	373.0	358.9	349.4	344.6
67.5°	193.6	188.9	198.3	212.4	221.9	226.6	240.8	255.0	250.2	240.8	240.8
70°	118.1	113.3	122.8	141.6	146.3	155.8	170.0	188.9	184.1	174.7	179.4
72.5°	66.1	66.1	70.8	85.0	99.2	108.6	122.8	136.9	141.6	136.9	136.9
75°	23.6	28.3	37.8	52.0	61.4	75.5	89.7	103.9	118.1	108.6	103.9
77.5°	9.4	9.4	18.9	33.1	47.2	61.4	85.0	99.2	108.6	99.2	89.7
80°	4.7	4.7	14.1	28.3	42.5	56.7	70.8	85.0	89.7	80.2	70.8
82.5°	4.7	4.7	14.1	28.3	42.5	52.0	75.5	85.0	94.4	85.0	70.8
85°	0.0	4.7	14.1	28.3	37.8	42.5	42.5	28.3	23.6	14.1	14.1
87.5°	0.0	0.0	4.7	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)