

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: P532537

Luminaire Tested: **GALN-SA7D-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25696 lumens
Efficiency: N/A
Efficacy: 59.3 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): 433
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



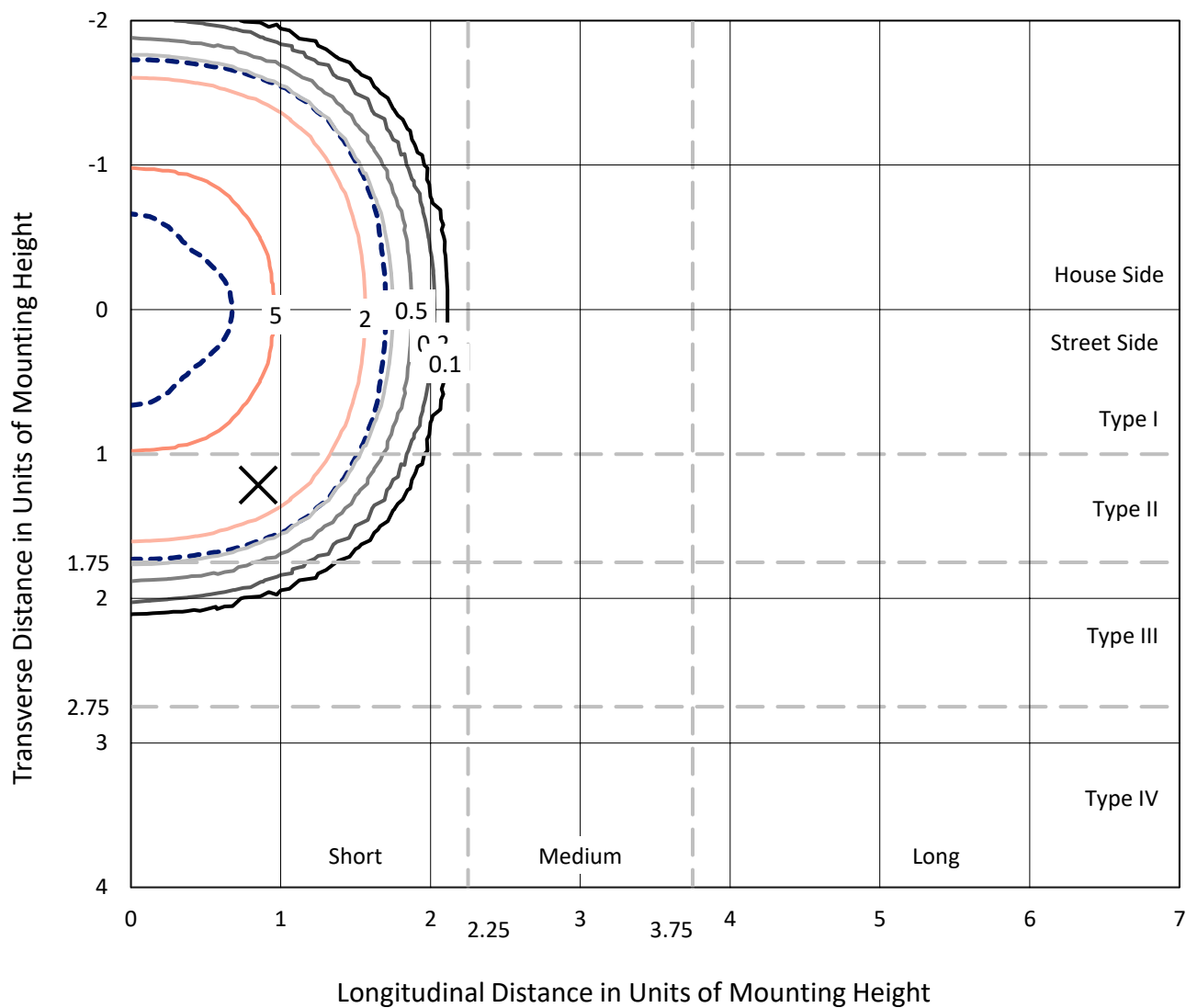
REPORT NUMBER: P532537

CATALOG NUMBER: GALN-SA7D-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

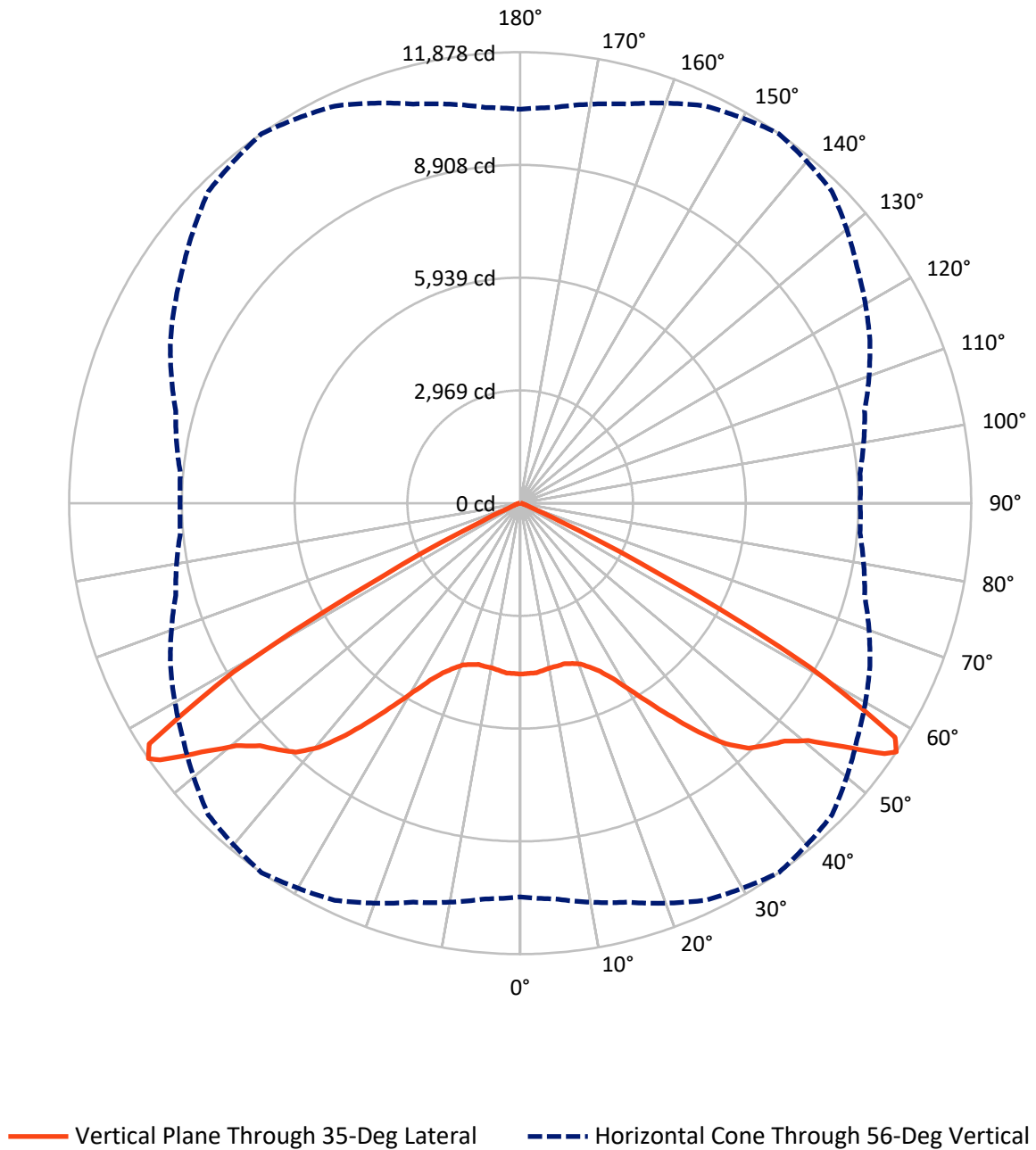


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P532537

CATALOG NUMBER: GALN-SA7D-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532537

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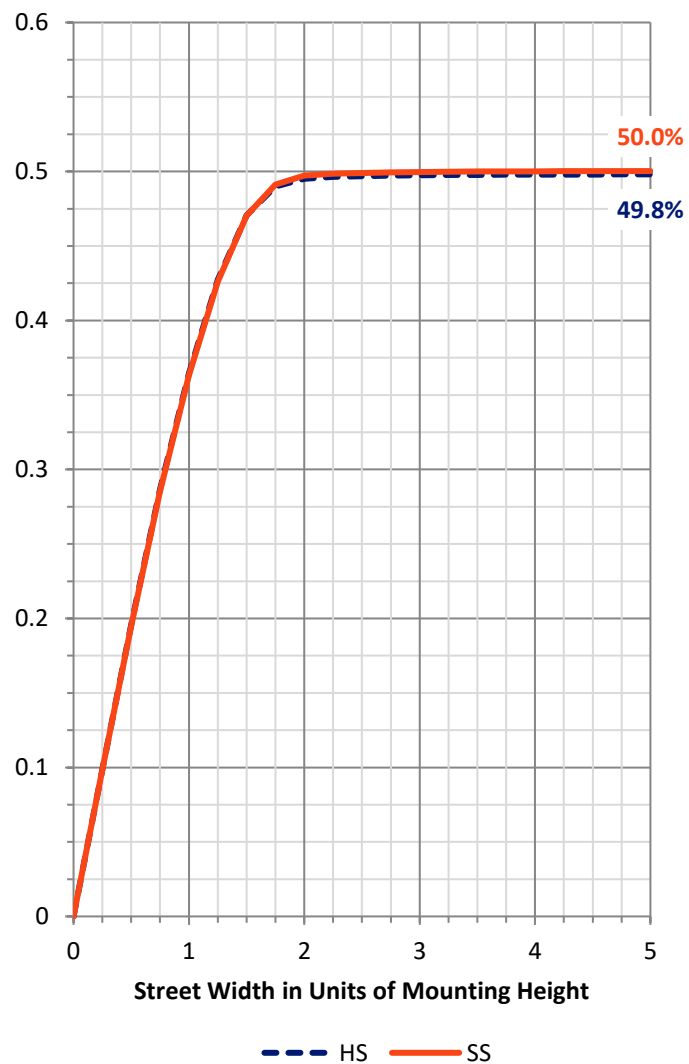
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12848.0	0.0	12848.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12848.0	0.0	12848.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25696.0	0.0	25696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.2	1.6
10°-20°	1235.4	4.8
20°-30°	2237.2	8.7
30°-40°	4148.6	16.1
40°-50°	6809.6	26.5
50°-60°	8772.8	34.1
60°-70°	1933.4	7.5
70°-80°	112.2	0.4
80°-90°	23.6	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°	25696.0	100.0
0°-180°	25696.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532537

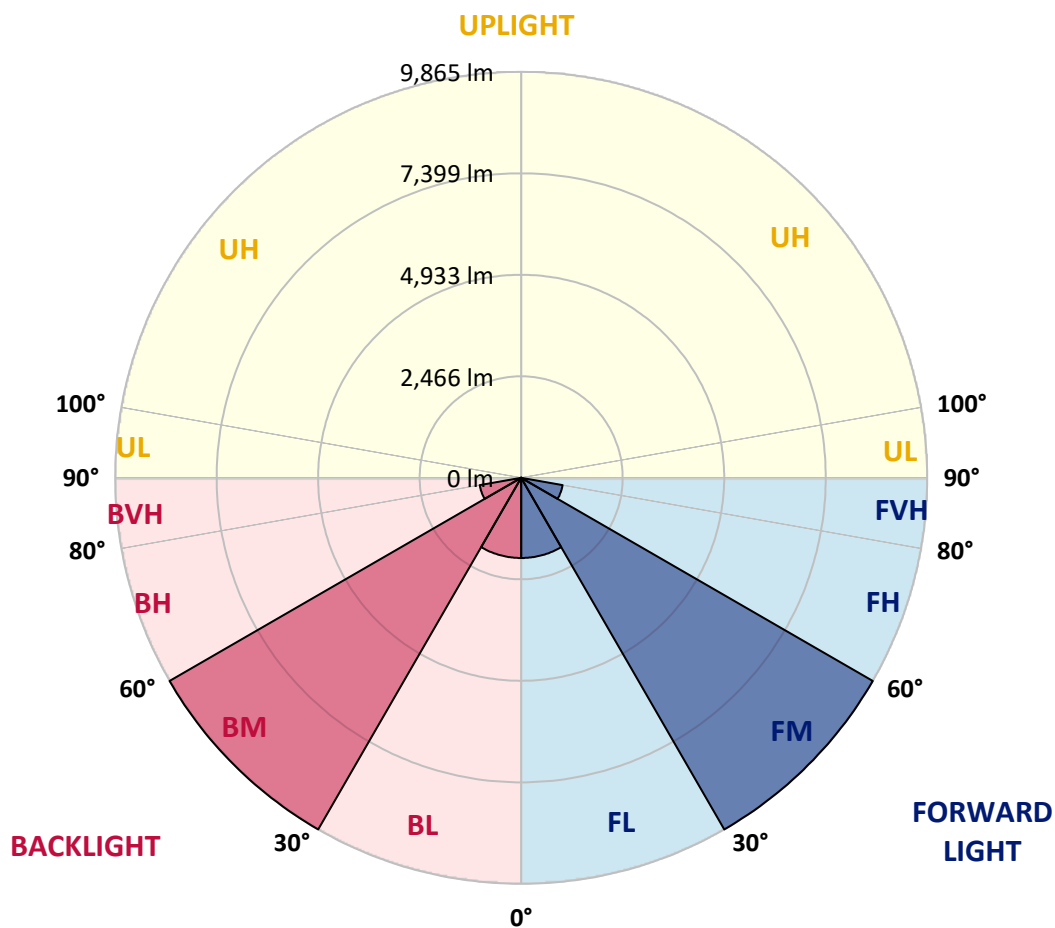
CATALOG NUMBER: GALN-SA7D-830-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1947.9	7.6			
FM	(30°-60°)	9865.5	38.4			
FH	(60°-80°)	1022.8	4.0			G1/1800
FVH	(80°-90°)	11.8	0.0			G1/100
BL	(0°-30°)	1947.9	7.6	B3/2500		
BM	(30°-60°)	9865.5	38.4	B5		
BH	(60°-80°)	1022.8	4.0	B3/2500		G1/1800
BVH	(80°-90°)	11.8	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



REPORT NUMBER: P532537

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5	4502.5
2.5°	4511.8	4511.8	4516.5	4521.1	4488.5	4474.6	4479.2	4469.9	4465.2	4479.2	4479.2
5°	4497.8	4497.8	4483.9	4488.5	4488.5	4446.6	4446.6	4455.9	4455.9	4428.0	4418.7
7.5°	4460.6	4451.3	4432.6	4455.9	4442.0	4442.0	4409.4	4386.1	4376.8	4395.4	4376.8
10°	4381.4	4386.1	4404.7	4414.0	4404.7	4432.6	4376.8	4344.2	4311.6	4297.6	4297.6
12.5°	4344.2	4372.1	4344.2	4367.5	4400.1	4376.8	4344.2	4320.9	4274.3	4255.7	4255.7
15°	4339.5	4358.2	4367.5	4400.1	4386.1	4395.4	4330.2	4302.3	4232.4	4199.8	4185.9
17.5°	4334.9	4358.2	4372.1	4432.6	4442.0	4446.6	4395.4	4311.6	4251.1	4218.5	4185.9
20°	4386.1	4395.4	4423.3	4483.9	4521.1	4586.3	4493.2	4404.7	4274.3	4237.1	4223.1
22.5°	4451.3	4497.8	4525.8	4591.0	4688.7	4744.6	4623.6	4511.8	4376.8	4330.2	4274.3
25°	4660.8	4651.5	4698.0	4833.1	4912.2	4954.1	4856.4	4693.4	4516.5	4460.6	4469.9
27.5°	4921.5	4930.9	4972.8	5121.8	5238.2	5303.3	5186.9	4972.8	4800.5	4707.4	4698.0
30°	5261.4	5252.1	5298.7	5498.9	5708.4	5806.2	5601.3	5349.9	5182.3	5061.2	5089.2
32.5°	5620.0	5624.6	5755.0	5936.6	6276.5	6467.4	6136.8	5829.5	5578.1	5494.3	5452.3
35°	6150.8	6174.0	6276.5	6555.9	6933.0	7179.8	6816.6	6448.8	6160.1	6006.4	6025.1
37.5°	6807.3	6784.0	6956.3	7258.9	7654.7	7836.3	7529.0	7109.9	6816.6	6714.2	6779.3
40°	7505.7	7529.0	7617.5	7892.2	8334.5	8455.6	7999.3	7771.1	7515.0	7463.8	7543.0
42.5°	8204.1	8190.2	8255.3	8502.1	8823.4	8739.6	8469.5	8334.5	8152.9	8050.5	8157.6
45°	8716.3	8693.0	8814.1	8981.7	9098.1	8939.8	8818.7	8772.2	8679.1	8567.3	8665.1
47.5°	9214.5	9195.9	9312.3	9358.9	9368.2	9158.6	9181.9	9265.7	9032.9	8800.1	8911.9
50°	9638.2	9605.6	9750.0	9852.4	9829.1	9493.9	9577.7	9493.9	9130.7	8856.0	8814.1
52.5°	10346.0	10359.9	10513.6	10699.8	10643.9	10364.6	10243.5	9861.7	9396.1	9149.3	9005.0
55°	10792.9	10723.1	10988.5	11579.8	11645.0	11356.3	10820.9	10257.5	9559.1	9256.4	9219.2
56°	10373.9	10462.4	10881.4	11542.6	11877.8	11612.4	10834.8	10159.7	9391.4	8981.7	8953.8
57.5°	9307.6	9261.1	9829.1	10732.4	11645.0	11533.3	10453.0	9461.3	8567.3	8106.3	8050.5
60°	5792.2	5927.3	6425.5	7543.0	8762.9	8818.7	7747.8	6895.8	5852.8	5443.0	5540.8
62.5°	2267.5	2151.1	2463.1	3296.6	4134.7	4320.9	3915.8	3254.6	2672.6	2267.5	2239.6
65°	526.1	512.2	577.4	796.2	1112.8	1289.8	1224.6	880.0	647.2	614.6	568.0
67.5°	298.0	298.0	284.0	284.0	312.0	330.6	316.6	312.0	325.9	339.9	335.2
70°	209.5	204.9	195.6	200.2	190.9	190.9	204.9	228.2	246.8	246.8	251.4
72.5°	125.7	125.7	125.7	139.7	139.7	139.7	153.7	172.3	176.9	172.3	167.6
75°	55.9	55.9	65.2	79.2	88.5	93.1	107.1	116.4	125.7	116.4	107.1
77.5°	14.0	14.0	23.3	32.6	41.9	51.2	69.8	83.8	88.5	83.8	69.8
80°	4.7	4.7	9.3	23.3	41.9	51.2	69.8	74.5	79.2	69.8	55.9
82.5°	4.7	4.7	9.3	23.3	32.6	41.9	55.9	65.2	69.8	60.5	55.9
85°	0.0	4.7	9.3	18.6	27.9	37.2	37.2	27.9	23.3	14.0	18.6
87.5°	0.0	0.0	4.7	4.7	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)