

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: P457324

Luminaire Tested: **GALN-SA8C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47315 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 429
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

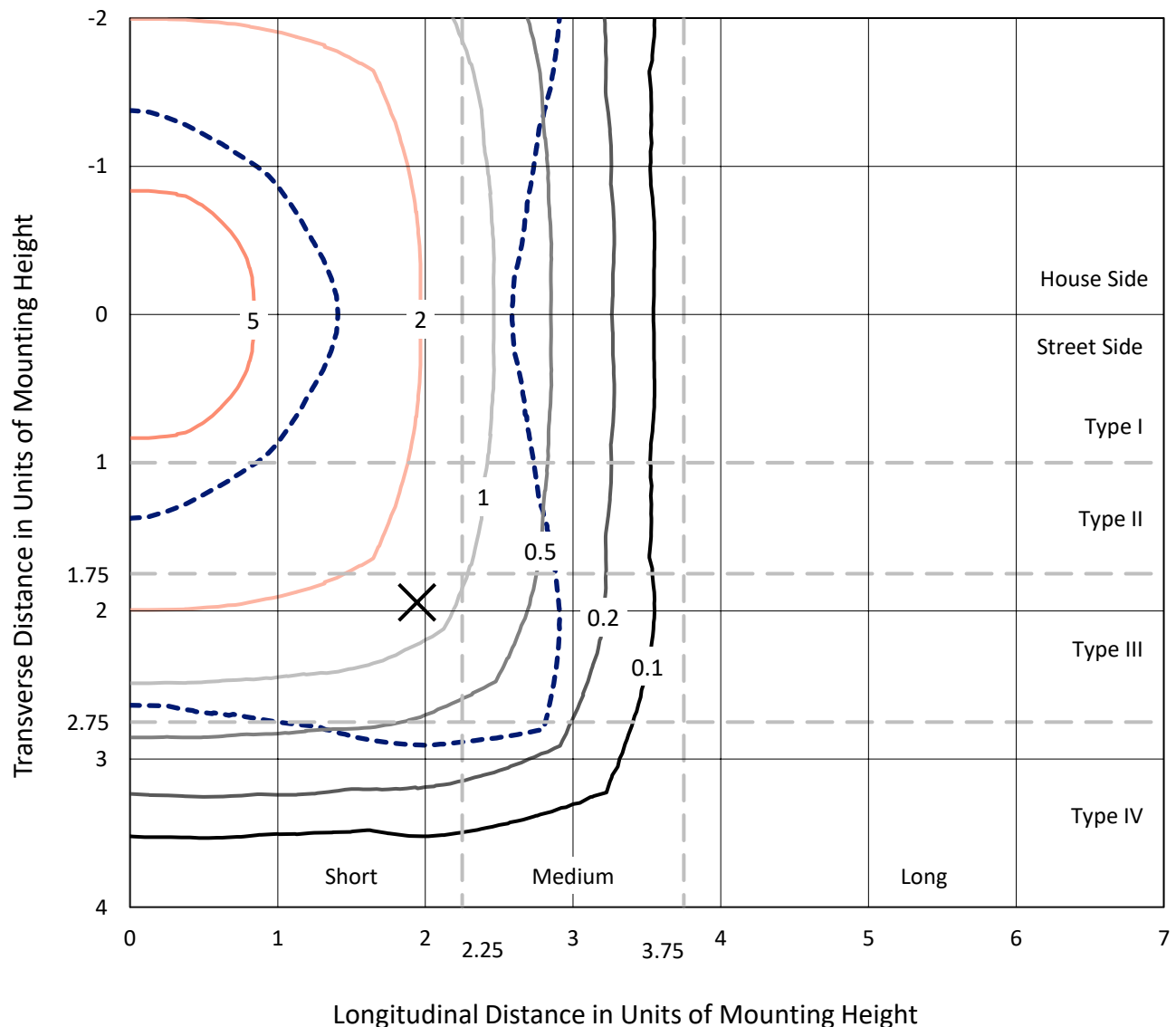


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

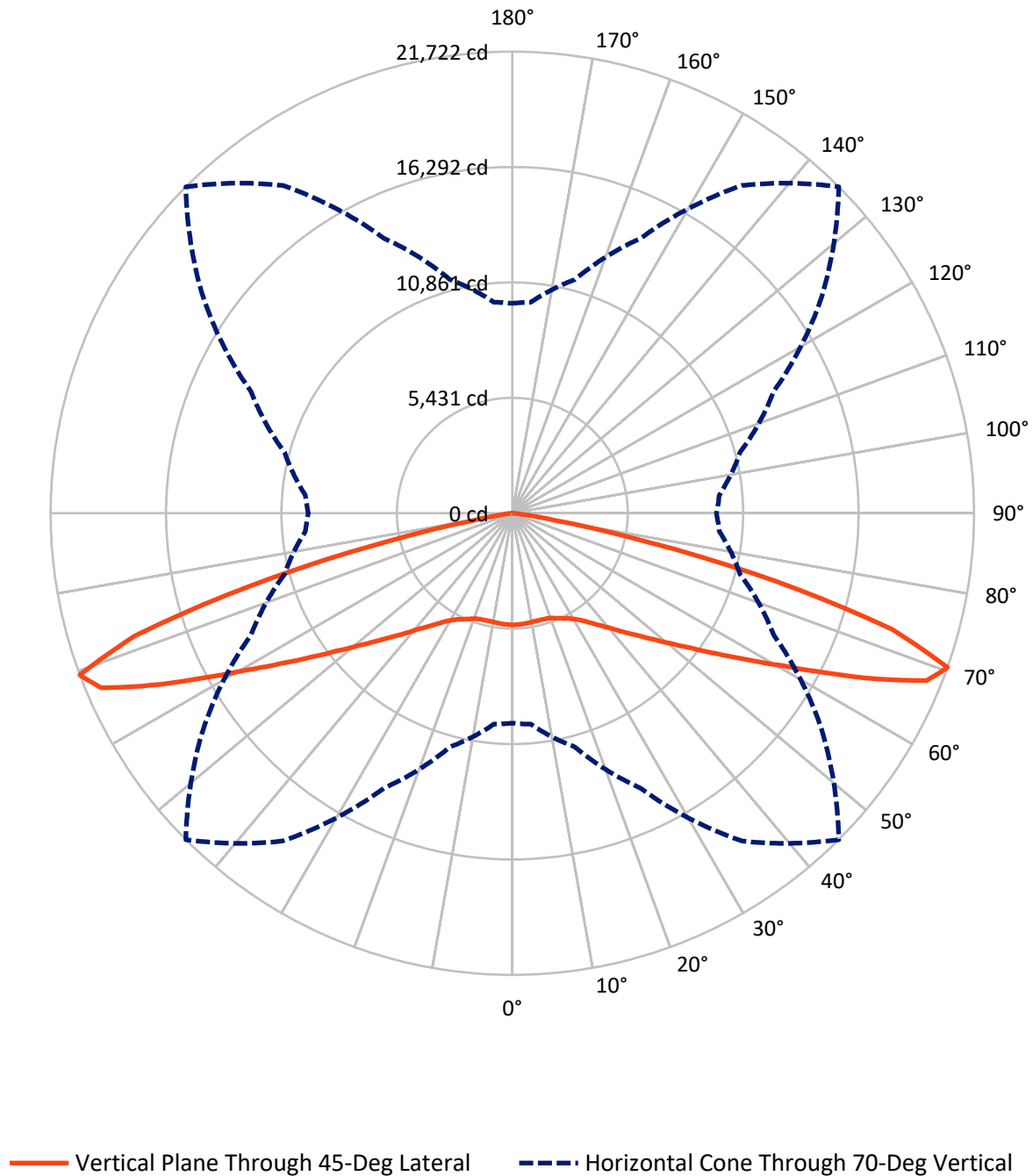


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23657.5	0.0	23657.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23657.5	0.0	23657.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47315.0	0.0	47315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.2	1.1
10°-20°	1462.1	3.1
20°-30°	2500.5	5.3
30°-40°	3968.9	8.4
40°-50°	6402.9	13.5
50°-60°	10417.7	22.0
60°-70°	15101.8	31.9
70°-80°	6698.7	14.2
80°-90°	264.2	0.6
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°	47315.0	100.0
0°-180°	47315.0	100.0

Coefficient of Utilization



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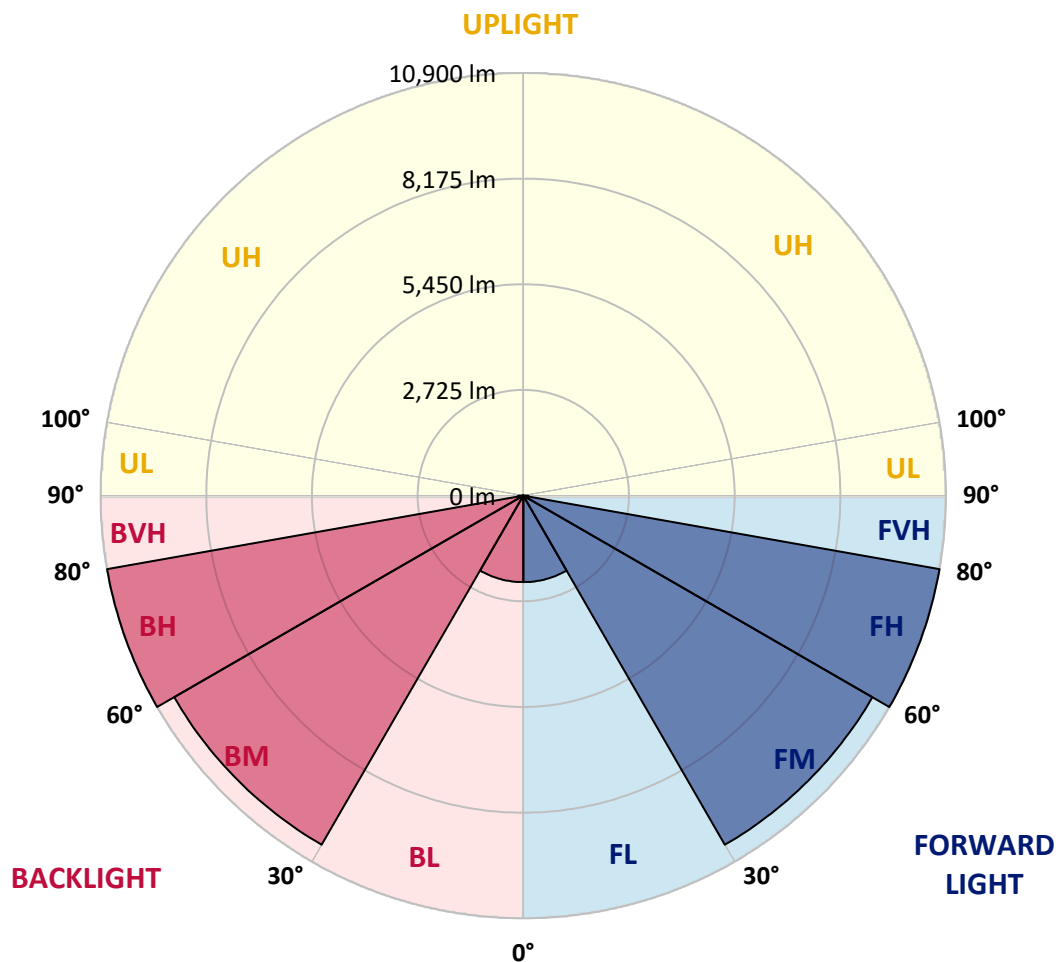
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2230.4	4.7			
FM	(30°-60°)	10394.7	22.0			
FH	(60°-80°)	10900.2	23.0			G4/12000
FVH	(80°-90°)	132.1	0.3			G2/225
BL	(0°-30°)	2230.4	4.7	B3/2500		
BM	(30°-60°)	10394.7	22.0	B5		
BH	(60°-80°)	10900.2	23.0	B5		G4/12000
BVH	(80°-90°)	132.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1	5254.1
2.5°	5254.1	5259.1	5251.6	5246.6	5244.1	5244.1	5241.6	5244.1	5259.1	5261.6	5254.1
5°	5239.1	5244.1	5241.6	5236.7	5234.2	5234.2	5231.7	5229.2	5241.6	5246.6	5244.1
7.5°	5219.2	5221.7	5219.2	5216.7	5219.2	5216.7	5209.2	5204.2	5214.2	5214.2	5211.7
10°	5184.3	5189.3	5186.8	5189.3	5194.3	5194.3	5184.3	5174.3	5176.8	5171.8	5171.8
12.5°	5141.9	5149.4	5151.9	5161.8	5174.3	5189.3	5166.8	5144.4	5139.4	5136.9	5134.4
15°	5114.5	5121.9	5131.9	5141.9	5164.3	5196.8	5164.3	5129.4	5119.5	5109.5	5104.5
17.5°	5107.0	5117.0	5131.9	5146.9	5176.8	5209.2	5181.8	5146.9	5121.9	5107.0	5102.0
20°	5126.9	5134.4	5156.9	5184.3	5226.7	5259.1	5231.7	5194.3	5156.9	5134.4	5126.9
22.5°	5166.8	5179.3	5206.7	5256.6	5316.4	5363.8	5326.4	5264.1	5204.2	5174.3	5164.3
25°	5254.1	5264.1	5296.5	5363.8	5433.7	5478.5	5438.6	5366.3	5284.0	5244.1	5231.7
27.5°	5386.3	5401.2	5436.1	5515.9	5573.3	5598.2	5570.8	5520.9	5461.1	5418.7	5408.7
30°	5573.3	5590.7	5643.1	5727.9	5765.3	5780.3	5767.8	5735.4	5693.0	5648.1	5638.1
32.5°	5825.2	5835.1	5895.0	5974.8	6009.7	6014.7	5999.7	5984.7	5914.9	5840.1	5835.1
35°	6106.9	6124.4	6196.7	6291.5	6323.9	6326.4	6296.5	6274.0	6191.7	6131.9	6131.9
37.5°	6481.0	6488.5	6558.3	6665.5	6700.4	6690.4	6675.5	6655.5	6568.3	6491.0	6493.4
40°	6919.9	6934.8	6994.7	7119.4	7119.4	7106.9	7116.9	7101.9	7014.6	6939.8	6942.3
42.5°	7441.0	7448.5	7520.8	7653.0	7643.0	7618.1	7628.1	7608.1	7553.2	7468.5	7438.5
45°	7997.1	8027.0	8151.7	8278.9	8258.9	8179.2	8219.1	8214.1	8164.2	8037.0	8044.5
47.5°	8667.9	8717.8	8837.5	8989.6	8967.1	8842.5	8887.3	8917.3	8847.4	8707.8	8682.9
50°	9423.5	9455.9	9632.9	9775.1	9755.1	9623.0	9725.2	9730.2	9555.6	9358.6	9358.6
52.5°	10228.9	10261.3	10500.7	10722.7	10735.1	10543.1	10625.4	10620.4	10336.2	10076.8	10026.9
55°	11131.6	11146.6	11455.8	11782.5	11852.3	11665.3	11675.2	11575.5	11206.4	10904.7	10877.3
57.5°	12064.2	12119.1	12460.7	12884.7	13091.6	12976.9	12924.6	12657.7	12301.1	11954.5	11937.1
60°	13096.6	13099.1	13543.0	14044.2	14463.1	14540.4	14326.0	13969.4	13508.1	13049.2	13029.3
62.5°	13812.3	13919.5	14480.6	15328.4	16079.0	16512.9	15946.9	15198.8	14291.1	13550.5	13475.7
65°	13959.4	14031.7	14887.1	16323.4	17857.0	18792.1	17482.9	15892.0	14343.4	13356.0	13306.1
67.5°	12770.0	12847.3	13999.3	16203.7	19103.8	21021.4	18480.4	15557.8	13455.7	12233.8	12136.6
70°	9877.3	9964.6	11388.5	14263.6	18827.0	21722.1	17769.7	13570.4	11096.7	9777.6	9600.5
72.5°	5251.6	5573.3	6790.2	9790.0	15281.1	18702.3	14570.4	9902.3	7156.8	5850.1	5615.7
75°	1917.6	1957.5	2635.8	4341.4	8889.8	12824.8	9231.5	4723.0	2715.6	2097.2	1989.9
77.5°	793.0	790.5	867.8	1311.7	3229.3	6568.3	3603.3	1386.5	865.3	800.5	790.5
80°	468.8	468.8	516.2	546.1	850.3	1982.4	950.1	618.4	518.7	473.8	481.3
82.5°	209.5	221.9	326.7	344.1	411.5	543.6	458.8	394.0	339.1	234.4	212.0
85°	114.7	99.7	172.1	179.5	197.0	202.0	216.9	214.5	197.0	114.7	117.2
87.5°	22.4	27.4	49.9	37.4	42.4	37.4	49.9	69.8	72.3	39.9	32.4
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)