

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: P651270

Luminaire Tested: **GALN-SA3D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651270
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-SA3D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20369.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

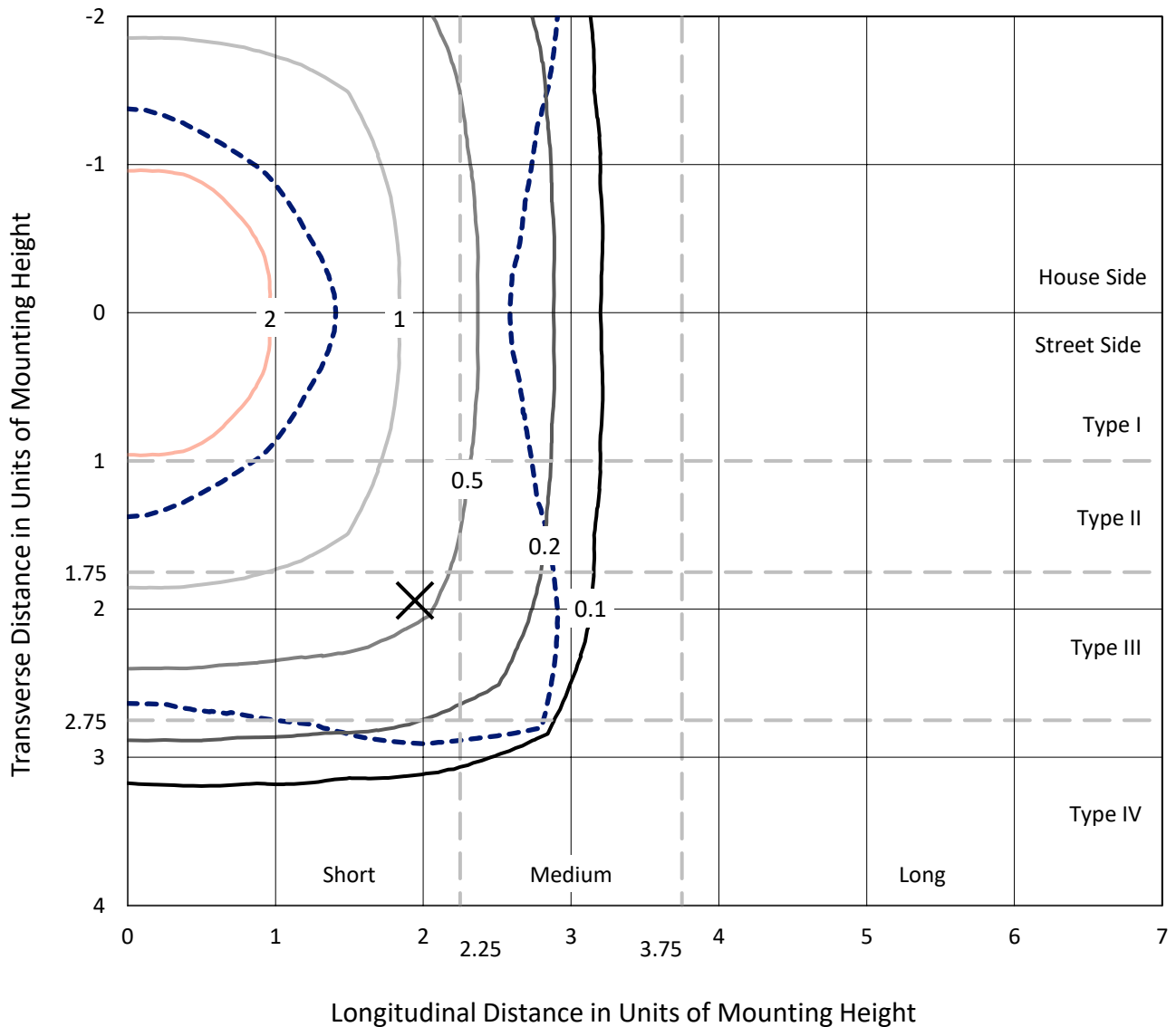
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

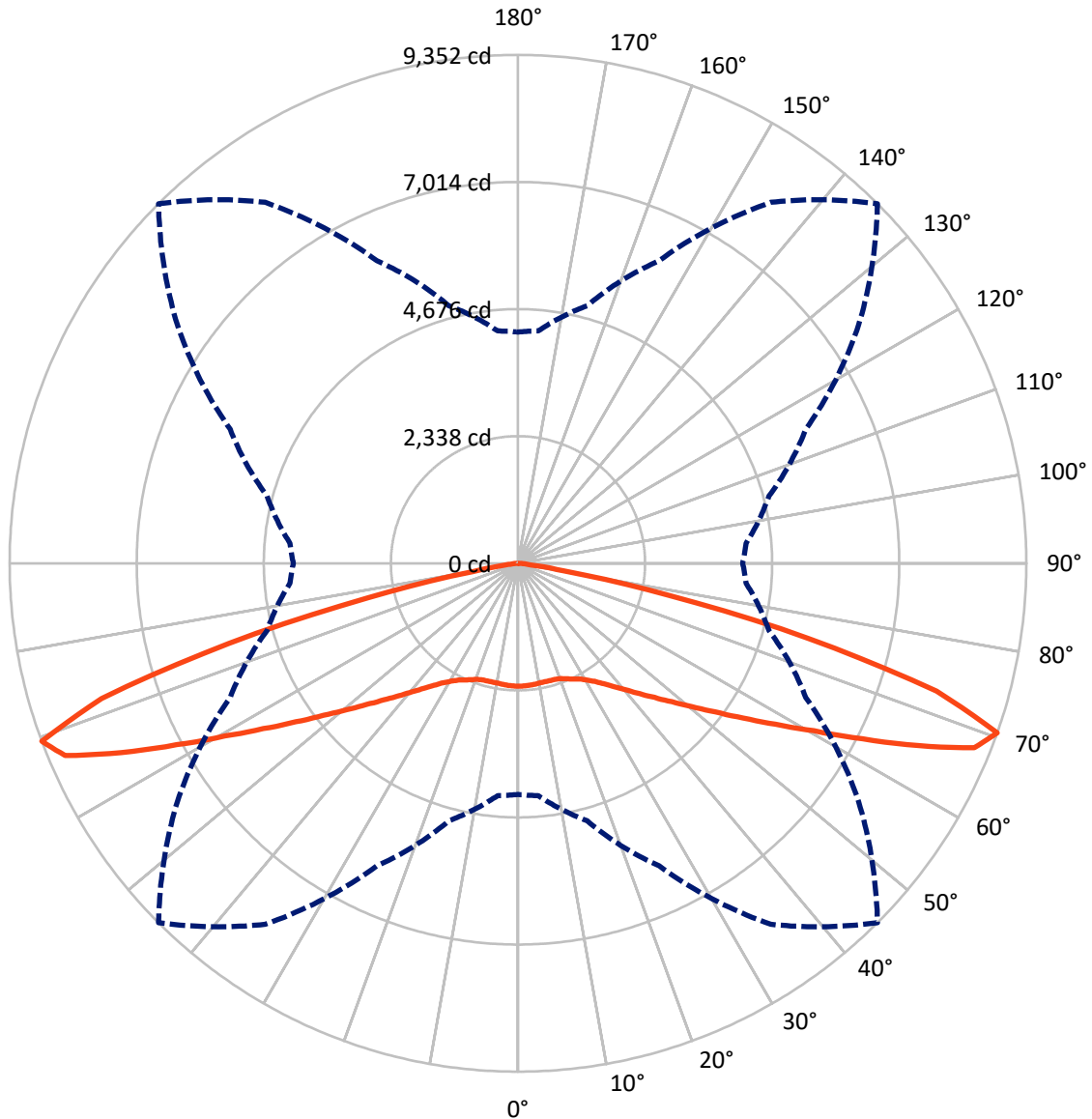
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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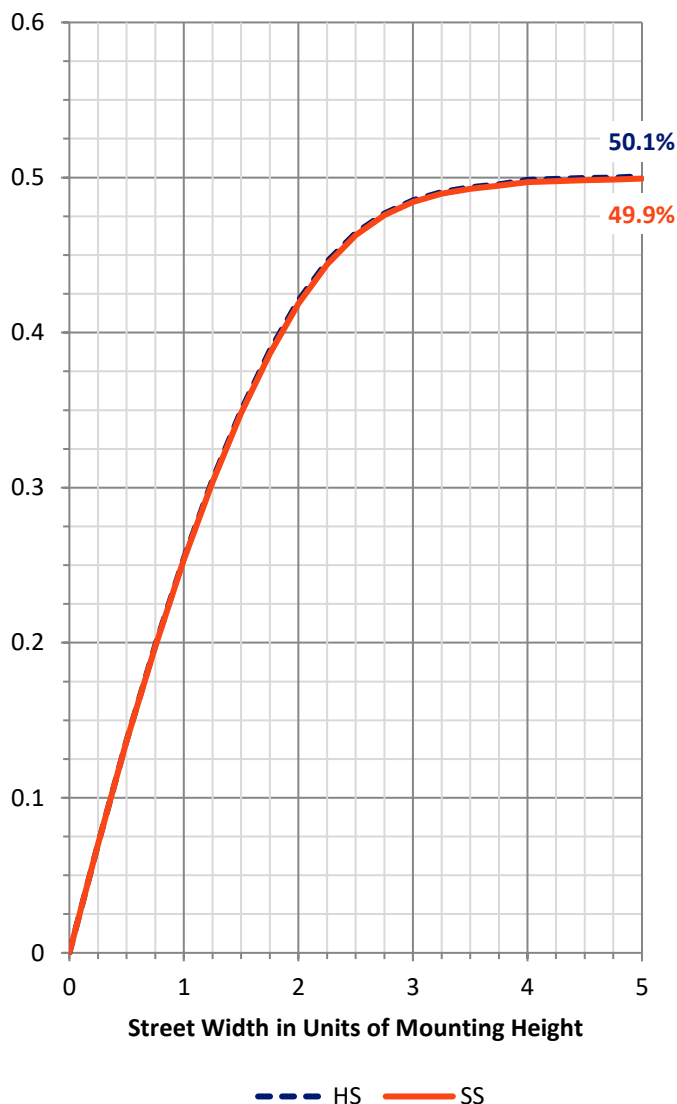
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10184.9	0.0	10184.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10184.9	0.0	10184.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	20369.9	0.0	20369.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	1.1
10°-20°	629.4	3.1
20°-30°	1076.5	5.3
30°-40°	1708.7	8.4
40°-50°	2756.5	13.5
50°-60°	4485.0	22.0
60°-70°	6501.6	31.9
70°-80°	2883.9	14.2
80°-90°	113.7	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°	20369.9	100.0
0°-180°	20369.9	100.0

Coefficient of Utilization



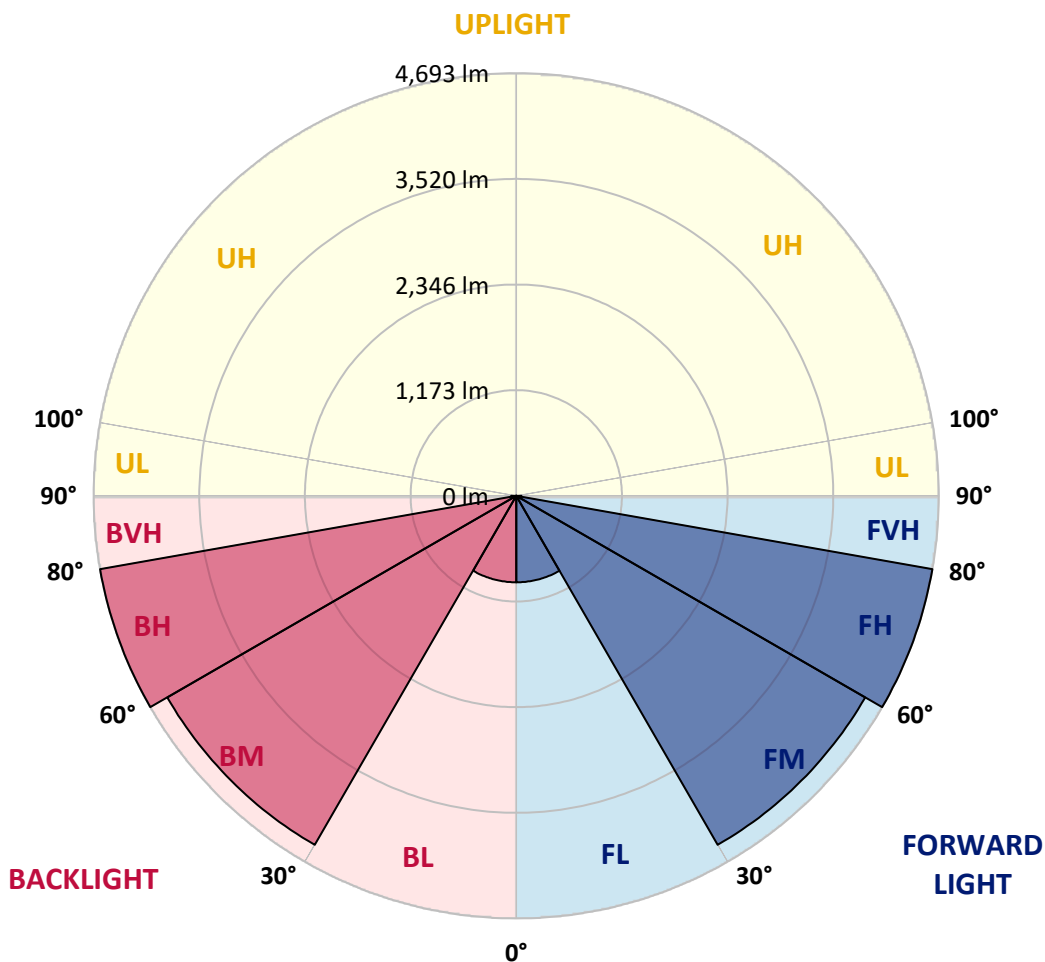
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.2	4.7			
FM (30°-60°)	4475.1	22.0			
FH (60°-80°)	4692.7	23.0			G2/5000
FVH (80°-90°)	56.9	0.3			G1/100
BL (0°-30°)	960.2	4.7	B2/1000		
BM (30°-60°)	4475.1	22.0	B3/5000		
BH (60°-80°)	4692.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0	2262.0
2.5°	2262.0	2264.1	2260.9	2258.8	2257.7	2257.7	2256.6	2257.7	2264.1	2265.2	2262.0
5°	2255.6	2257.7	2256.6	2254.5	2253.4	2253.4	2252.3	2251.3	2256.6	2258.8	2257.7
7.5°	2247.0	2248.0	2247.0	2245.9	2247.0	2245.9	2242.7	2240.5	2244.8	2244.8	2243.7
10°	2231.9	2234.0	2233.0	2234.0	2236.2	2236.2	2231.9	2227.6	2228.7	2226.5	2226.5
12.5°	2213.7	2216.9	2218.0	2222.3	2227.6	2234.0	2224.4	2214.8	2212.6	2211.5	2210.5
15°	2201.8	2205.1	2209.4	2213.7	2223.4	2237.3	2223.4	2208.3	2204.0	2199.7	2197.5
17.5°	2198.6	2202.9	2209.4	2215.8	2228.7	2242.7	2230.8	2215.8	2205.1	2198.6	2196.5
20°	2207.2	2210.5	2220.1	2231.9	2250.2	2264.1	2252.3	2236.2	2220.1	2210.5	2207.2
22.5°	2224.4	2229.7	2241.6	2263.0	2288.8	2309.2	2293.1	2266.2	2240.5	2227.6	2223.4
25°	2262.0	2266.2	2280.2	2309.2	2339.2	2358.6	2341.4	2310.3	2274.8	2257.7	2252.3
27.5°	2318.9	2325.3	2340.3	2374.7	2399.4	2410.1	2398.3	2376.8	2351.1	2332.8	2328.6
30°	2399.4	2406.9	2429.5	2466.0	2482.0	2488.5	2483.1	2469.2	2450.9	2431.6	2427.3
32.5°	2507.9	2512.2	2537.9	2572.2	2587.3	2589.4	2583.0	2576.5	2546.5	2514.3	2512.2
35°	2629.1	2636.6	2667.8	2708.6	2722.6	2723.6	2710.7	2701.0	2665.6	2639.9	2639.9
37.5°	2790.2	2793.4	2823.4	2869.6	2884.6	2880.3	2873.9	2865.3	2827.8	2794.5	2795.6
40°	2979.1	2985.5	3011.3	3065.0	3065.0	3059.6	3063.9	3057.5	3019.9	2987.7	2988.7
42.5°	3203.5	3206.7	3237.8	3294.7	3290.4	3279.7	3284.0	3275.4	3251.8	3215.3	3202.4
45°	3442.9	3455.8	3509.4	3564.2	3555.6	3521.3	3538.4	3536.3	3514.8	3460.0	3463.3
47.5°	3731.7	3753.1	3804.7	3870.2	3860.5	3806.8	3826.1	3839.0	3809.0	3748.8	3738.1
50°	4057.0	4070.9	4147.1	4208.4	4199.7	4142.9	4186.8	4189.0	4113.8	4029.1	4029.1
52.5°	4403.7	4417.7	4520.7	4616.2	4621.6	4539.0	4574.5	4572.3	4449.9	4338.2	4316.8
55°	4792.4	4798.7	4931.9	5072.6	5102.6	5022.1	5026.4	4983.4	4824.6	4694.6	4682.9
57.5°	5193.8	5217.5	5364.6	5547.1	5636.1	5586.8	5564.2	5449.3	5295.9	5146.6	5139.1
60°	5638.3	5639.4	5830.5	6046.3	6226.6	6259.9	6167.6	6014.1	5815.4	5617.9	5609.3
62.5°	5946.4	5992.5	6234.2	6599.2	6922.3	7109.1	6865.3	6543.3	6152.5	5833.7	5801.5
65°	6009.8	6040.9	6409.1	7027.5	7687.7	8090.3	7526.7	6841.8	6175.0	5749.9	5728.5
67.5°	5497.7	5530.9	6026.9	6975.9	8224.5	9050.1	7956.1	6697.9	5792.9	5266.8	5225.0
70°	4252.3	4289.9	4902.9	6140.7	8105.3	9351.8	7650.2	5842.3	4777.3	4209.4	4133.2
72.5°	2260.9	2399.4	2923.3	4214.8	6578.7	8051.6	6272.8	4263.1	3081.1	2518.5	2417.6
75°	825.5	842.8	1134.8	1869.0	3827.2	5521.2	3974.3	2033.3	1169.1	902.9	856.7
77.5°	341.4	340.4	373.6	564.6	1390.3	2827.8	1551.3	596.9	372.6	344.6	340.4
80°	201.8	201.8	222.2	235.1	366.1	853.4	409.1	266.3	223.3	203.9	207.2
82.5°	90.2	95.5	140.6	148.2	177.1	234.1	197.6	169.6	146.0	100.9	91.2
85°	49.4	43.0	74.1	77.3	84.8	87.0	93.4	92.3	84.8	49.4	50.5
87.5°	9.7	11.8	21.4	16.1	18.2	16.1	21.4	30.0	31.1	17.2	14.0
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)