

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: P650774

Luminaire Tested: **GALN-SA3C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15579.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

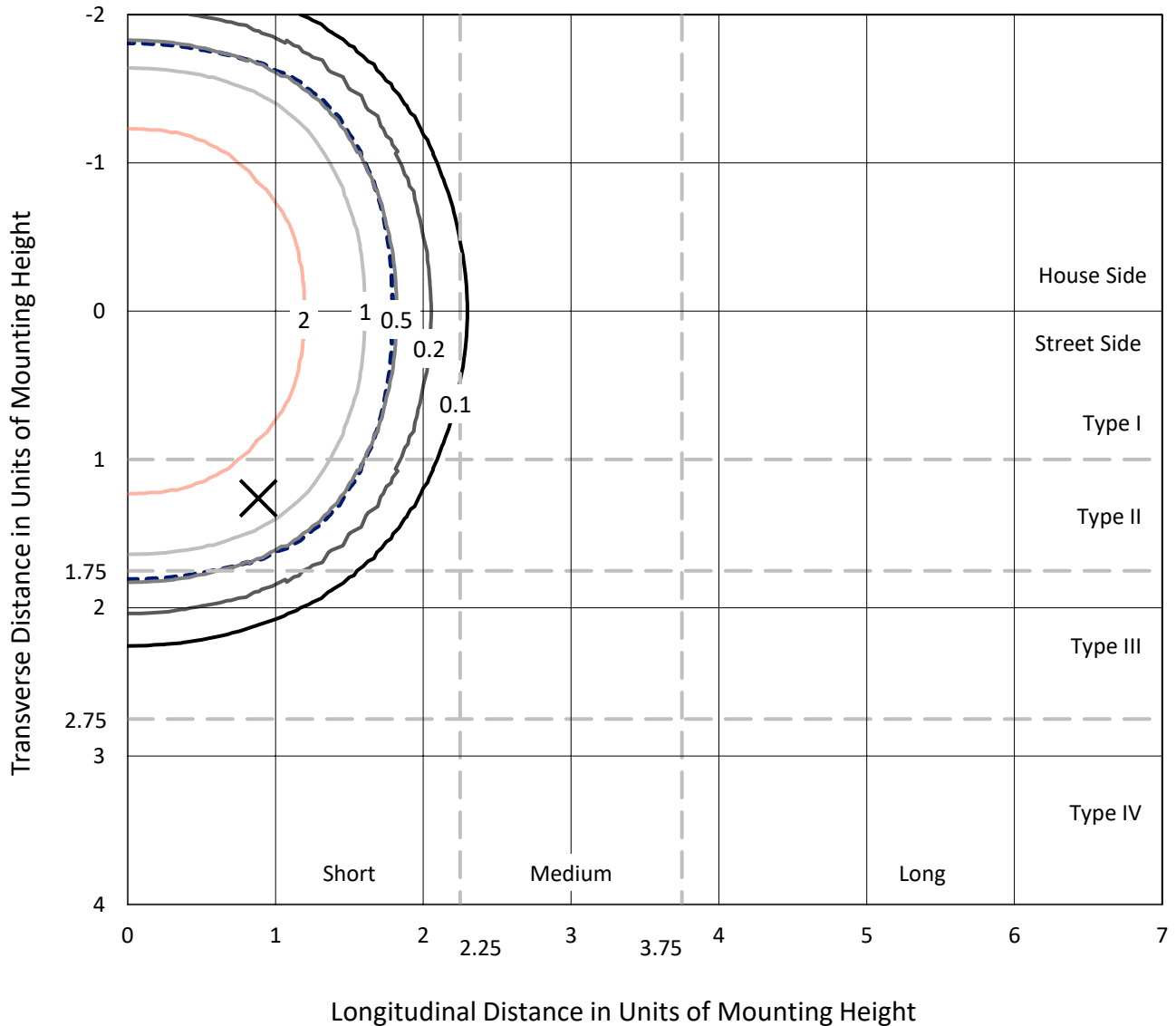
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

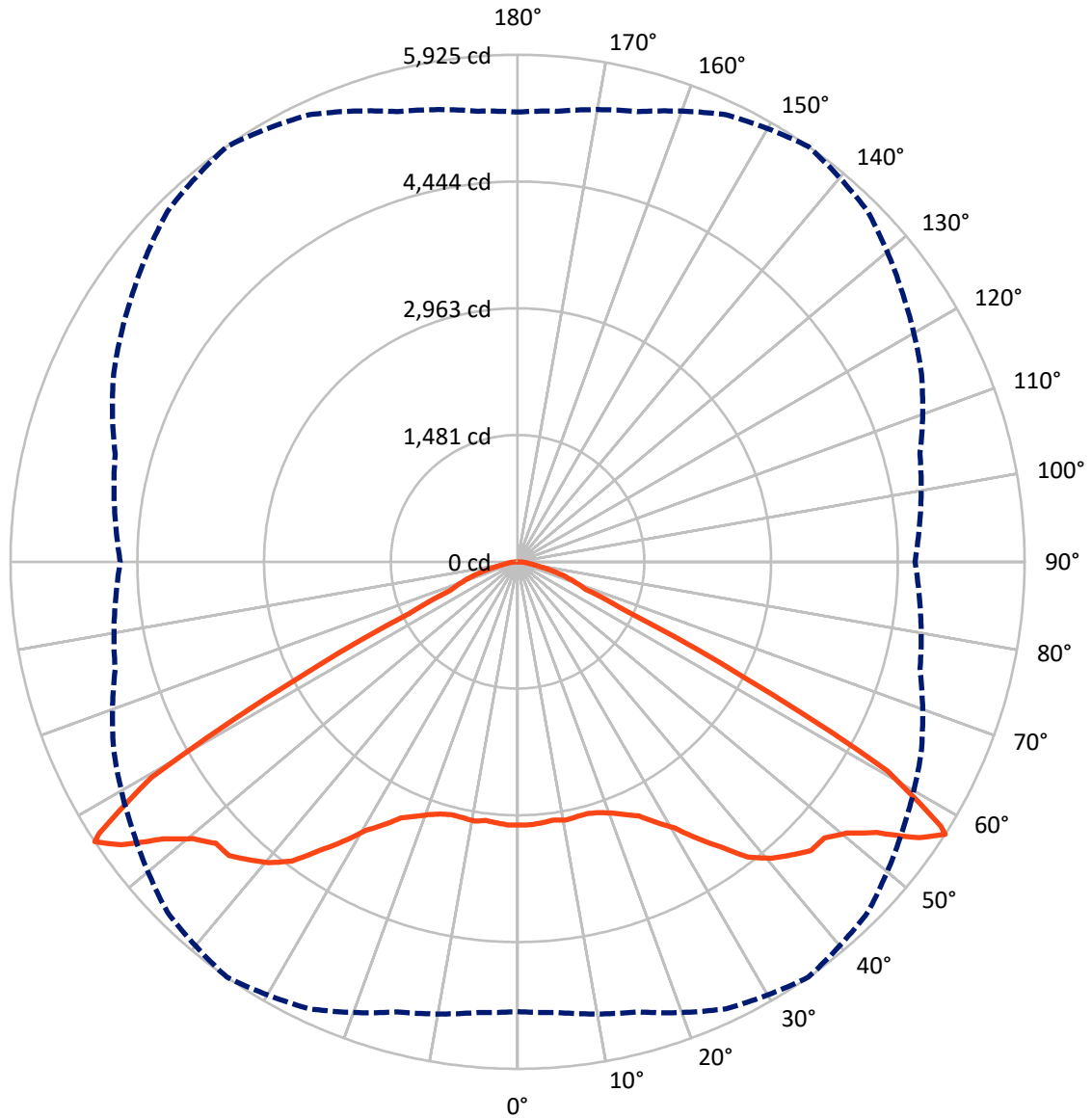
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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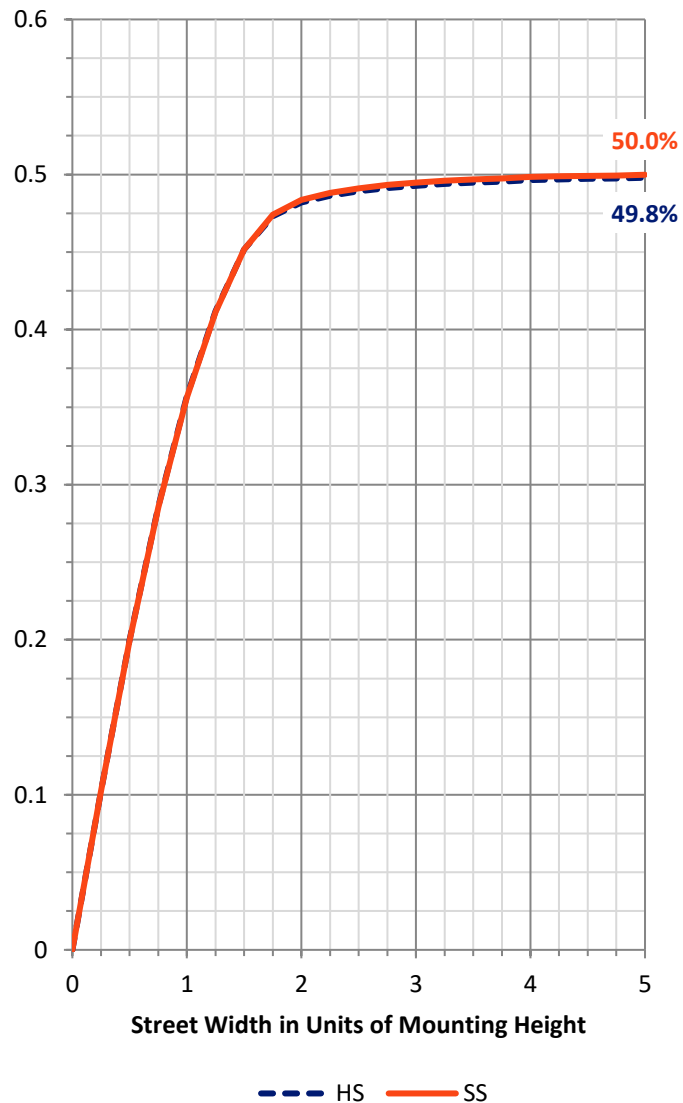
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7789.8	0.0	7789.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7789.8	0.0	7789.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15579.5	0.0	15579.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	1.9
10°-20°	863.9	5.5
20°-30°	1508.8	9.7
30°-40°	2472.2	15.9
40°-50°	3624.9	23.3
50°-60°	4565.9	29.3
60°-70°	1717.2	11.0
70°-80°	456.6	2.9
80°-90°	78.3	0.5
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°	15579.5	100.0
0°-180°	15579.5	100.0

Coefficient of Utilization



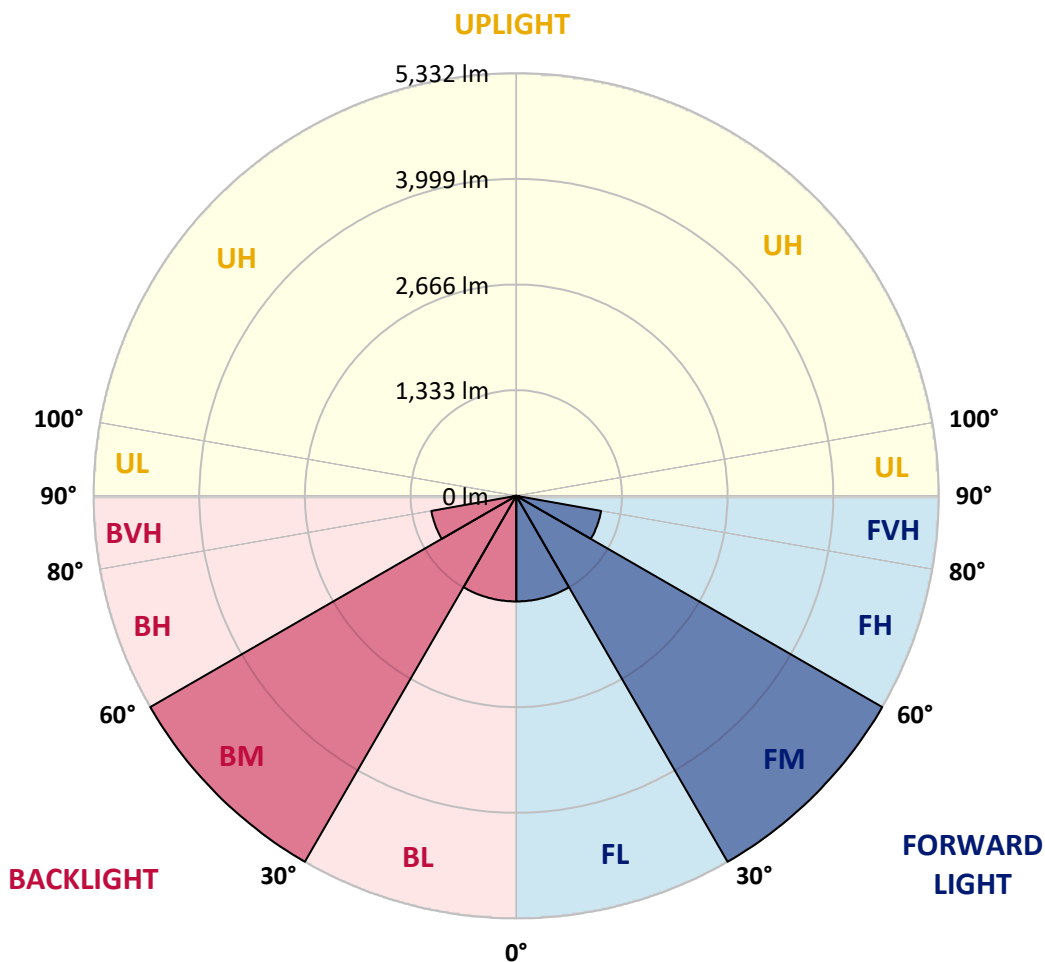
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.2	8.6			
FM (30°-60°)	5331.5	34.2			
FH (60°-80°)	1086.9	7.0			G1/1800
FVH (80°-90°)	39.1	0.3			G1/100
BL (0°-30°)	1332.2	8.6	B3/2500		
BM (30°-60°)	5331.5	34.2	B4/8500		
BH (60°-80°)	1086.9	7.0	B3/2500		G1/1800
BVH (80°-90°)	39.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9
2.5°	3061.5	3092.2	3078.7	3071.1	3076.9	3067.2	3051.9	3069.1	3065.4	3050.0	3044.3
5°	3053.8	3076.9	3061.5	3076.9	3061.5	3088.3	3080.7	3051.9	3086.5	3053.8	3065.4
7.5°	3048.0	3055.7	3059.6	3051.9	3046.1	3078.7	3061.5	3048.0	3028.9	3023.1	3032.7
10°	3034.6	3053.8	3025.0	3063.4	3071.1	3048.0	3048.0	3023.1	3007.8	2998.2	3030.8
12.5°	3069.1	3036.5	3032.7	3051.9	3057.6	3067.2	3040.4	3026.9	2998.2	3001.9	2996.2
15°	3028.9	3042.3	3044.3	3048.0	3053.8	3076.9	3051.9	3023.1	3011.6	2971.3	2975.1
17.5°	3044.3	3030.8	3044.3	3088.3	3080.7	3098.0	3071.1	3026.9	3000.1	2977.1	3007.8
20°	3071.1	3065.4	3071.1	3124.8	3134.4	3149.8	3126.8	3086.5	3034.6	3007.8	3023.1
22.5°	3099.8	3096.1	3099.8	3151.7	3207.3	3226.6	3203.5	3109.5	3082.6	3032.7	3015.4
25°	3151.7	3155.5	3195.9	3253.4	3289.9	3326.4	3284.1	3217.0	3130.6	3099.8	3063.4
27.5°	3266.9	3276.5	3299.5	3383.9	3447.3	3479.9	3420.4	3328.3	3274.5	3211.2	3201.6
30°	3408.9	3408.9	3449.2	3522.1	3608.6	3658.4	3585.5	3476.1	3410.8	3376.3	3355.2
32.5°	3597.0	3575.9	3591.2	3719.8	3854.2	3896.4	3798.5	3664.2	3560.5	3514.5	3499.1
35°	3758.3	3771.6	3806.2	3944.5	4094.2	4192.0	4038.5	3863.8	3758.3	3716.0	3708.3
37.5°	3967.4	3990.5	4007.8	4197.8	4378.2	4414.7	4266.9	4126.8	3998.2	3963.6	3944.5
40°	4263.0	4247.7	4253.4	4393.6	4556.7	4579.7	4433.8	4334.1	4228.5	4207.4	4207.4
42.5°	4506.8	4489.5	4508.8	4560.6	4685.3	4668.1	4587.4	4514.5	4470.3	4447.3	4470.3
45°	4654.6	4650.7	4685.3	4723.7	4812.0	4754.4	4691.1	4702.6	4660.4	4622.0	4620.0
47.5°	4815.8	4790.9	4833.1	4890.7	4823.6	4796.6	4792.8	4817.8	4804.3	4737.2	4716.0
50°	4894.5	4884.9	4952.1	5019.3	4982.8	4921.4	4934.8	4975.2	4802.4	4712.2	4660.4
52.5°	5105.7	5107.6	5236.2	5272.6	5257.3	5167.1	5195.9	5086.5	4883.0	4756.4	4762.1
55°	5437.7	5424.3	5568.3	5675.7	5693.0	5577.8	5439.7	5286.1	5030.8	4902.2	4863.8
57°	5255.4	5286.1	5445.4	5764.0	5925.3	5789.0	5487.6	5207.4	4867.7	4712.2	4643.1
57.5°	5011.6	5061.6	5337.9	5658.5	5827.4	5815.9	5428.2	5061.6	4758.3	4516.4	4522.1
60°	3671.9	3681.5	3931.0	4439.6	4967.5	4979.0	4506.8	4021.2	3683.4	3420.4	3456.8
62.5°	1936.7	1980.8	2080.6	2489.5	2946.4	3057.6	2771.7	2522.2	2230.4	2030.8	2049.9
65°	1025.0	1019.2	1067.2	1182.4	1406.9	1464.5	1426.2	1228.4	1126.7	1094.1	1096.0
67.5°	833.0	842.6	836.9	842.6	858.0	883.0	877.2	884.8	890.6	900.2	898.3
70°	706.4	706.4	710.2	712.1	712.1	723.6	737.1	762.0	764.0	773.6	777.3
72.5°	556.7	552.8	558.6	572.0	573.9	583.5	602.7	618.1	623.9	623.9	612.3
75°	378.1	382.0	389.6	401.2	412.7	429.9	445.3	454.9	458.8	453.0	447.2
77.5°	213.0	216.9	222.6	239.9	253.4	268.7	286.0	295.6	305.2	307.1	295.6
80°	126.7	126.7	136.2	149.7	165.1	180.4	195.8	207.3	211.2	211.2	205.4
82.5°	76.8	78.7	86.4	99.8	113.3	122.9	136.2	145.9	153.6	151.6	147.8
85°	40.3	40.3	48.0	59.5	69.1	78.7	78.7	72.9	69.1	59.5	55.7
87.5°	13.5	11.5	15.4	15.4	13.5	15.4	15.4	17.2	17.2	17.2	17.2
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)