

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: P454192

Luminaire Tested: **GALN-SA5B-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454192
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-SA5B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29887 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

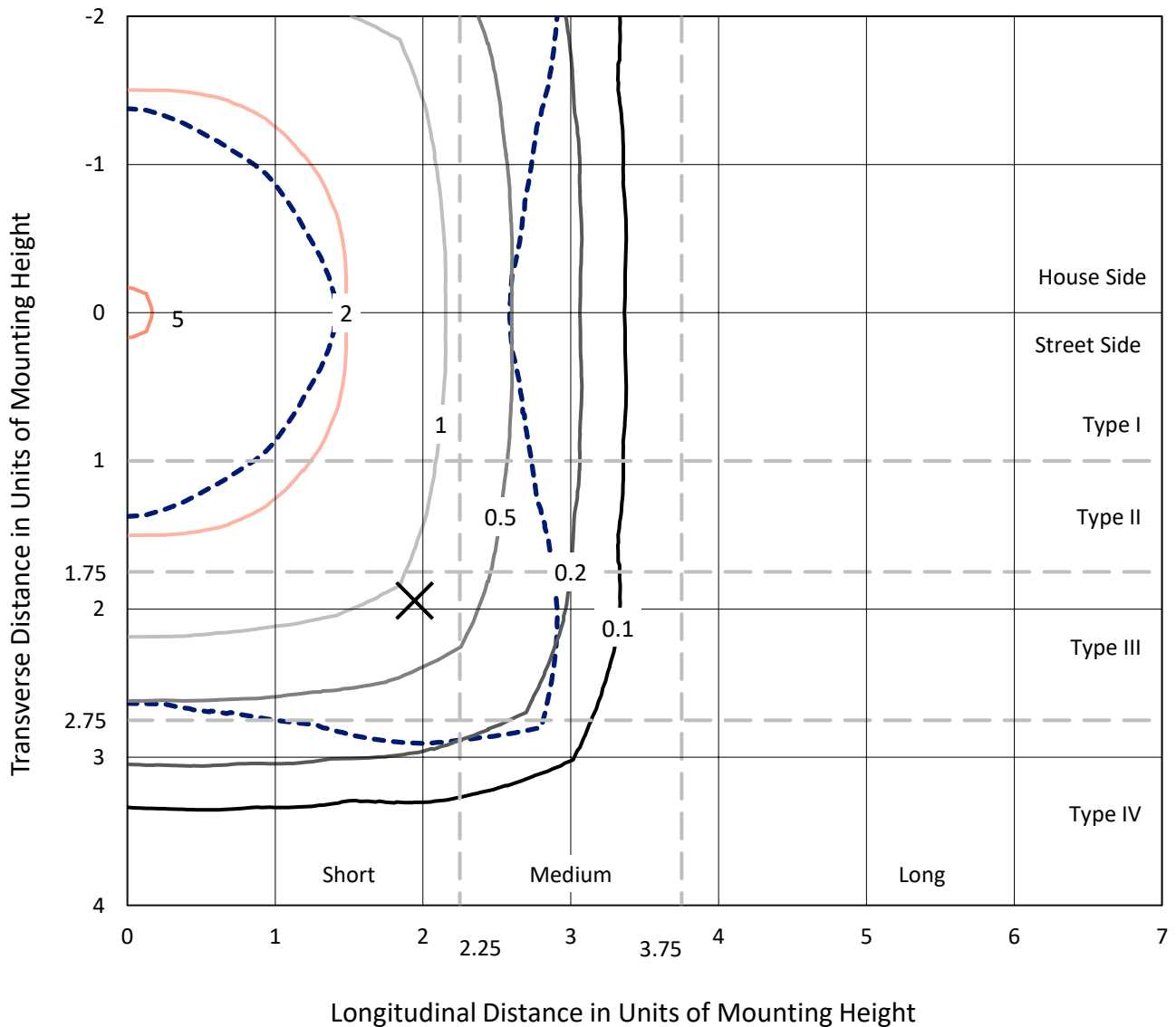
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

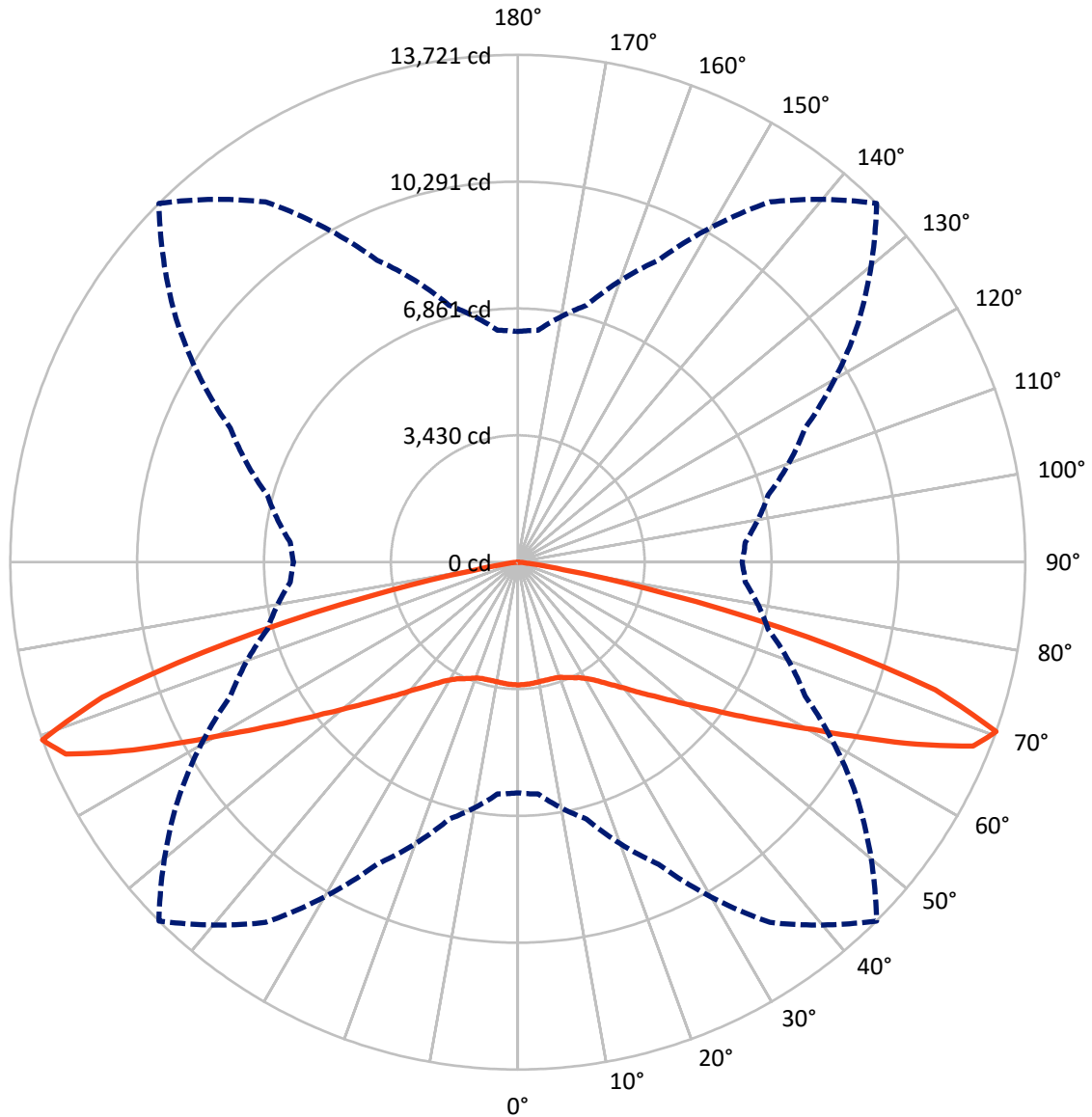
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	14943.5	0.0	14943.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14943.5	0.0	14943.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29887.0	0.0	29887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.1
10°-20°	923.5	3.1
20°-30°	1579.5	5.3
30°-40°	2507.0	8.4
40°-50°	4044.5	13.5
50°-60°	6580.4	22.0
60°-70°	9539.2	31.9
70°-80°	4231.3	14.2
80°-90°	166.9	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°	29887.0	100.0
0°-180°	29887.0	100.0

Coefficient of Utilization



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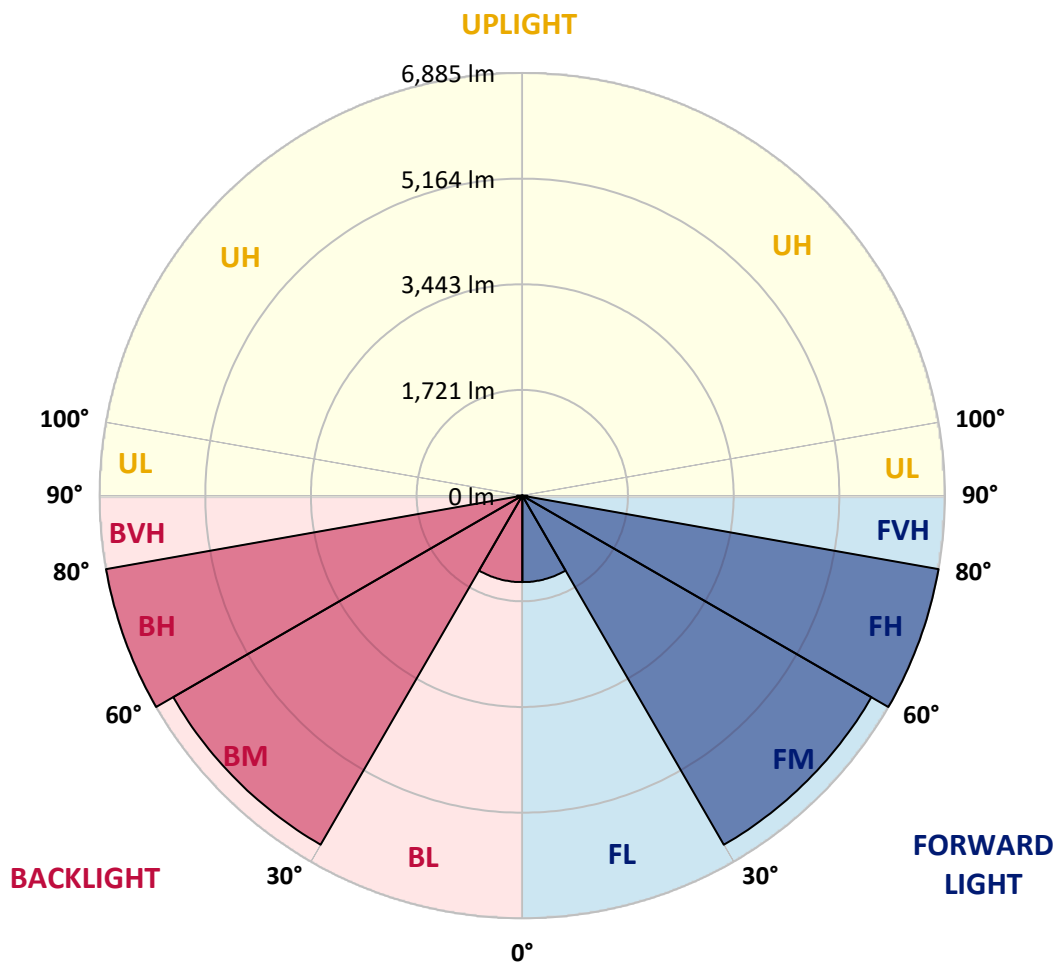
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1408.9	4.7			
FM	(30°-60°)	6565.9	22.0			
FH	(60°-80°)	6885.2	23.0			G3/7500
FVH	(80°-90°)	83.4	0.3			G1/100
BL	(0°-30°)	1408.9	4.7	B3/2500		
BM	(30°-60°)	6565.9	22.0	B4/8500		
BH	(60°-80°)	6885.2	23.0	B5		G3/7500
BVH	(80°-90°)	83.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3318.8	3322.0	3317.2	3314.1	3312.5	3312.5	3310.9	3312.5	3322.0	3323.5	3318.8
5°	3309.4	3312.5	3310.9	3307.8	3306.2	3306.2	3304.6	3303.1	3310.9	3314.1	3312.5
7.5°	3296.8	3298.3	3296.8	3295.2	3296.8	3295.2	3290.5	3287.3	3293.6	3293.6	3292.0
10°	3274.7	3277.9	3276.3	3277.9	3281.0	3281.0	3274.7	3268.4	3270.0	3266.8	3266.8
12.5°	3247.9	3252.7	3254.2	3260.5	3268.4	3277.9	3263.7	3249.5	3246.4	3244.8	3243.2
15°	3230.6	3235.3	3241.6	3247.9	3262.1	3282.6	3262.1	3240.1	3233.8	3227.5	3224.3
17.5°	3225.9	3232.2	3241.6	3251.1	3270.0	3290.5	3273.1	3251.1	3235.3	3225.9	3222.7
20°	3238.5	3243.2	3257.4	3274.7	3301.5	3322.0	3304.6	3281.0	3257.4	3243.2	3238.5
22.5°	3263.7	3271.6	3288.9	3320.4	3358.2	3388.1	3364.5	3325.1	3287.3	3268.4	3262.1
25°	3318.8	3325.1	3345.6	3388.1	3432.2	3460.6	3435.4	3389.7	3337.7	3312.5	3304.6
27.5°	3402.3	3411.7	3433.8	3484.2	3520.4	3536.2	3518.9	3487.3	3449.5	3422.8	3416.5
30°	3520.4	3531.5	3564.5	3618.1	3641.7	3651.2	3643.3	3622.8	3596.0	3567.7	3561.4
32.5°	3679.5	3685.8	3723.6	3774.0	3796.1	3799.2	3789.8	3780.3	3736.2	3689.0	3685.8
35°	3857.5	3868.5	3914.2	3974.1	3994.5	3996.1	3977.2	3963.0	3911.1	3873.3	3873.3
37.5°	4093.8	4098.5	4142.6	4210.3	4232.4	4226.1	4216.6	4204.0	4148.9	4100.1	4101.7
40°	4371.0	4380.5	4418.3	4497.0	4497.0	4489.1	4495.4	4486.0	4430.9	4383.6	4385.2
42.5°	4700.2	4704.9	4750.6	4834.1	4827.8	4812.0	4818.3	4805.7	4771.1	4717.5	4698.6
45°	5051.5	5070.4	5149.1	5229.4	5216.8	5166.4	5191.6	5188.5	5157.0	5076.7	5081.4
47.5°	5475.2	5506.7	5582.3	5678.4	5664.2	5585.4	5613.8	5632.7	5588.6	5500.4	5484.6
50°	5952.4	5972.9	6084.7	6174.5	6161.9	6078.4	6143.0	6146.2	6035.9	5911.5	5911.5
52.5°	6461.2	6481.7	6632.9	6773.1	6781.0	6659.7	6711.7	6708.5	6528.9	6365.1	6333.6
55°	7031.4	7040.9	7236.2	7442.5	7486.6	7368.5	7374.8	7311.8	7078.7	6888.1	6870.7
57.5°	7620.5	7655.2	7871.0	8138.7	8269.5	8197.0	8163.9	7995.4	7770.1	7551.2	7540.2
60°	8272.6	8274.2	8554.6	8871.2	9135.8	9184.6	9049.2	8823.9	8532.5	8242.7	8230.1
62.5°	8724.7	8792.4	9146.8	9682.4	10156.5	10430.5	10073.0	9600.5	9027.1	8559.3	8512.0
65°	8817.6	8863.3	9403.6	10310.8	11279.5	11870.2	11043.3	10038.3	9060.2	8436.4	8404.9
67.5°	8066.3	8115.1	8842.8	10235.2	12067.1	13278.4	11673.3	9827.3	8499.4	7727.6	7666.2
70°	6239.1	6294.2	7193.6	9009.8	11892.3	13721.0	11224.4	8571.9	7009.4	6176.1	6064.3
72.5°	3317.2	3520.4	4289.1	6184.0	9652.4	11813.5	9203.5	6254.9	4520.6	3695.3	3547.2
75°	1211.3	1236.5	1664.9	2742.3	5615.4	8100.9	5831.2	2983.3	1715.3	1324.7	1257.0
77.5°	500.9	499.3	548.1	828.5	2039.8	4148.9	2276.1	875.8	546.6	505.6	499.3
80°	296.1	296.1	326.1	345.0	537.1	1252.2	600.1	390.6	327.6	299.3	304.0
82.5°	132.3	140.2	206.3	217.4	259.9	343.4	289.8	248.9	214.2	148.1	133.9
85°	72.5	63.0	108.7	113.4	124.4	127.6	137.0	135.5	124.4	72.5	74.0
87.5°	14.2	17.3	31.5	23.6	26.8	23.6	31.5	44.1	45.7	25.2	20.5
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)