

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: P454164

Luminaire Tested: **GALN-SA5B-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27084 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

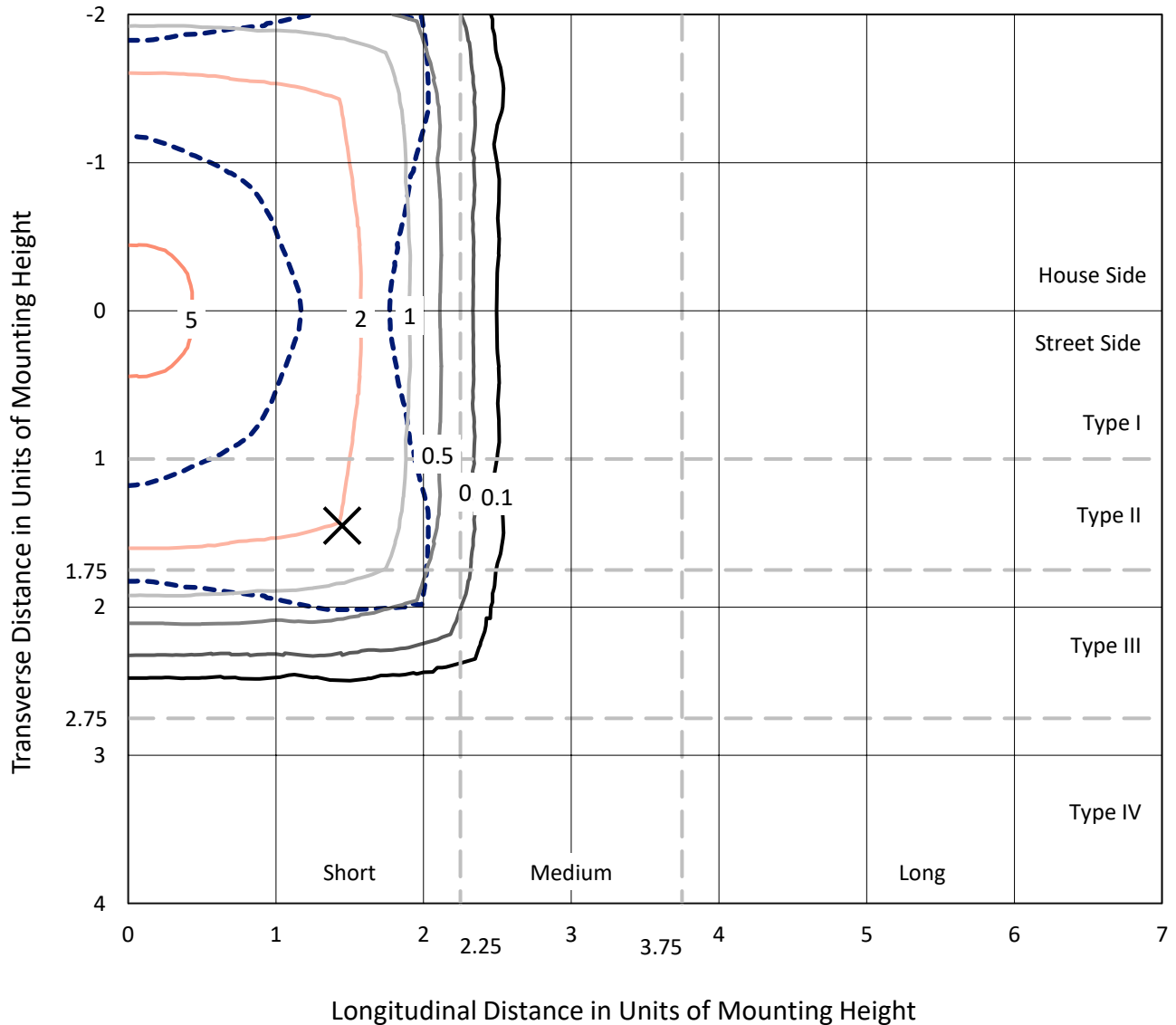
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

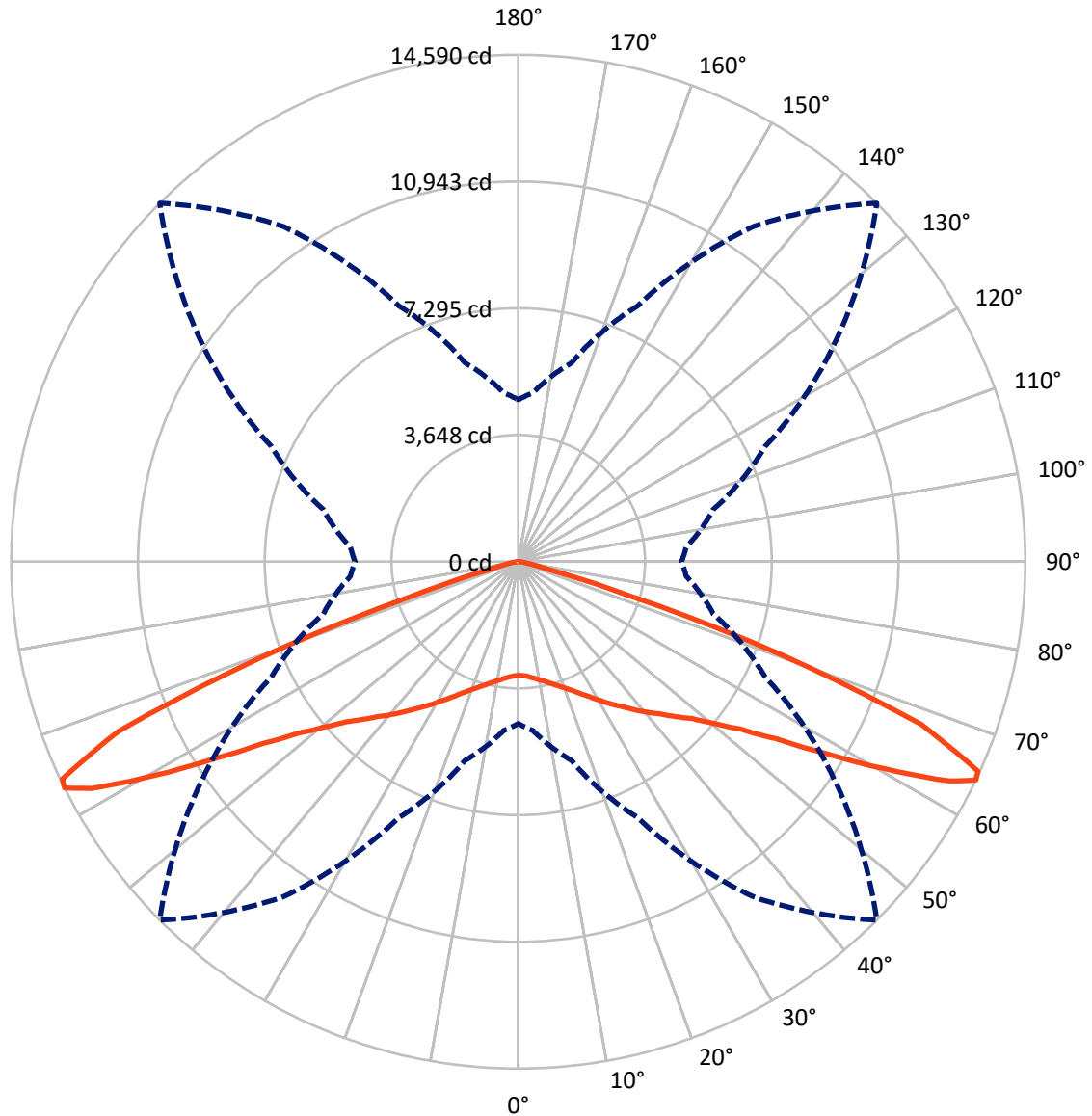
✕ Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13542.0	0.0	13542.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13542.0	0.0	13542.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27084.0	0.0	27084.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.6	1.2
10°-20°	1037.4	3.8
20°-30°	1960.4	7.2
30°-40°	3246.6	12.0
40°-50°	5068.4	18.7
50°-60°	7835.7	28.9
60°-70°	6756.6	24.9
70°-80°	765.7	2.8
80°-90°	91.7	0.3
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°	27084.0	100.0
0°-180°	27084.0	100.0



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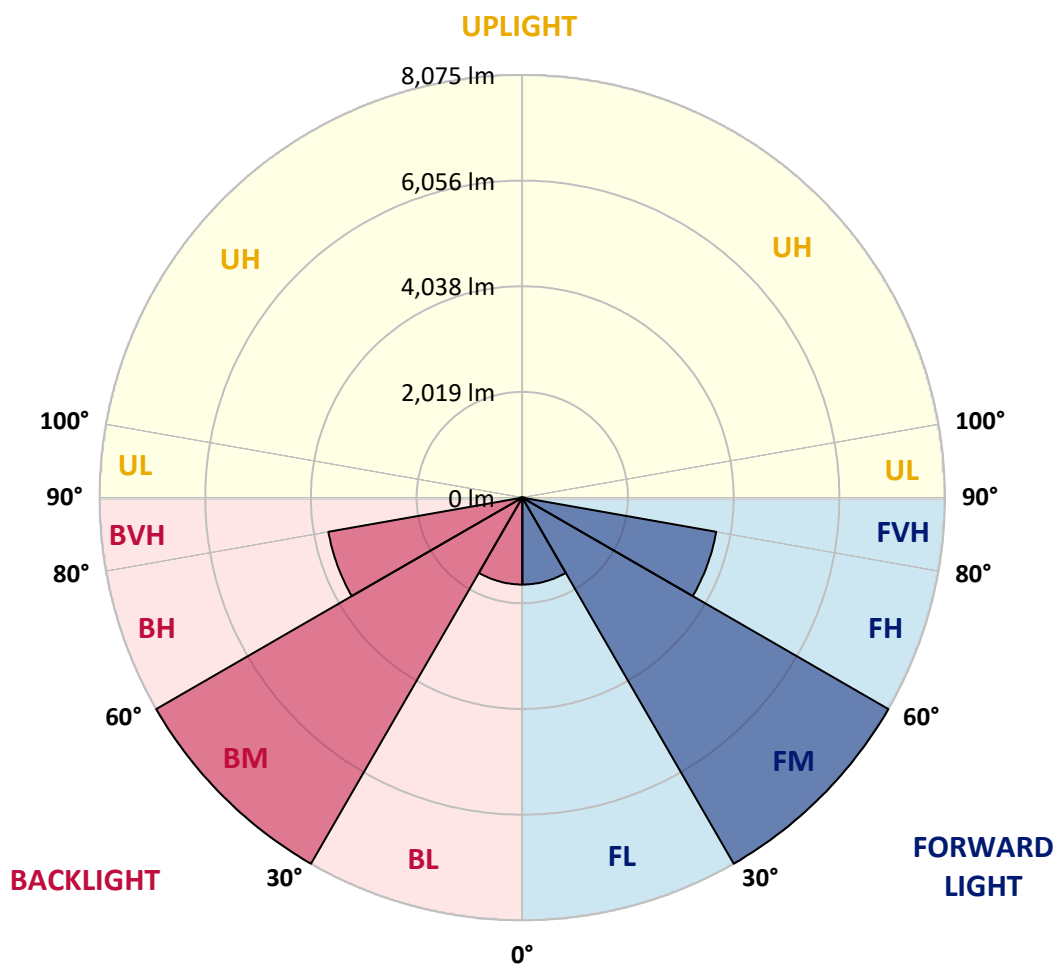
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1659.7	6.1			
FM	(30°-60°)	8075.3	29.8			
FH	(60°-80°)	3761.1	13.9			G2/5000
FVH	(80°-90°)	45.9	0.2			G1/100
BL	(0°-30°)	1659.7	6.1	B3/2500		
BM	(30°-60°)	8075.3	29.8	B4/8500		
BH	(60°-80°)	3761.1	13.9	B4/5000		G2/5000
BVH	(80°-90°)	45.9	0.2			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°	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6
2.5°	3286.5	3293.6	3287.9	3286.5	3285.0	3285.0	3285.0	3286.5	3292.2	3296.5	3293.6
5°	3328.1	3333.8	3330.9	3329.5	3328.1	3329.5	3326.6	3325.2	3329.5	3329.5	3328.1
7.5°	3379.7	3386.9	3384.0	3386.9	3388.3	3389.8	3382.6	3376.8	3375.4	3379.7	3376.8
10°	3450.0	3455.7	3457.2	3458.6	3461.5	3460.0	3451.4	3441.4	3440.0	3438.5	3437.1
12.5°	3528.9	3533.2	3534.6	3540.4	3544.7	3546.1	3536.1	3527.5	3513.1	3516.0	3510.3
15°	3617.8	3626.4	3625.0	3633.6	3645.1	3648.0	3637.9	3623.6	3610.7	3603.5	3599.2
17.5°	3726.9	3732.6	3729.7	3738.3	3752.7	3759.9	3751.2	3732.6	3719.7	3703.9	3695.3
20°	3856.0	3866.0	3868.9	3868.9	3881.8	3889.0	3876.1	3870.3	3850.2	3838.8	3831.6
22.5°	4002.3	4006.6	4015.2	4023.8	4036.7	4033.8	4029.5	4020.9	4002.3	3992.2	3980.8
25°	4167.3	4171.6	4193.1	4211.7	4216.0	4213.2	4207.4	4203.1	4185.9	4163.0	4154.3
27.5°	4359.5	4368.1	4396.8	4414.0	4414.0	4415.4	4404.0	4418.3	4381.0	4353.7	4350.9
30°	4600.5	4606.2	4630.6	4647.8	4639.2	4632.0	4629.2	4643.5	4603.3	4554.6	4543.1
32.5°	4838.6	4858.7	4880.2	4917.5	4887.4	4874.5	4871.6	4881.6	4835.7	4781.2	4765.4
35°	5094.0	5108.3	5148.5	5180.0	5152.8	5122.6	5135.6	5167.1	5112.6	5039.4	5036.6
37.5°	5376.6	5389.5	5441.1	5474.1	5454.0	5402.4	5423.9	5461.2	5406.7	5316.3	5297.7
40°	5670.6	5697.9	5762.4	5796.9	5763.9	5695.0	5735.2	5775.3	5726.6	5621.9	5580.3
42.5°	6000.6	6043.6	6136.8	6154.1	6090.9	5997.7	6068.0	6132.5	6098.1	5977.6	5961.8
45°	6386.4	6412.3	6527.0	6564.3	6476.8	6360.6	6448.1	6565.8	6539.9	6400.8	6370.7
47.5°	6818.2	6842.6	6961.7	7017.6	6907.2	6750.8	6908.6	7062.1	7046.3	6897.1	6882.8
50°	7328.9	7334.7	7499.6	7562.7	7452.3	7317.4	7458.0	7648.8	7585.7	7394.9	7392.0
52.5°	7888.4	7895.6	8103.6	8225.5	8163.8	8011.8	8178.2	8294.3	8133.7	7884.1	7865.4
55°	8373.2	8409.1	8693.1	9017.3	9102.0	8991.5	9041.7	8987.2	8591.3	8241.3	8186.8
57.5°	8571.2	8641.5	9073.3	9678.7	10229.5	10393.0	10005.7	9486.4	8773.5	8278.6	8225.5
60°	8087.8	8163.8	8833.7	9982.8	11388.6	12098.7	11009.9	9571.1	8358.9	7663.2	7580.0
62.5°	6476.8	6498.3	7483.9	9266.9	12064.2	13903.3	11433.1	8849.5	7152.5	6207.1	6174.1
64°	4660.7	4881.6	5926.0	8125.1	11768.7	14590.4	11189.2	7838.2	5809.8	4853.0	4698.0
65°	3485.9	3546.1	4776.9	6938.7	11248.0	14538.8	10715.8	6871.3	4811.4	3714.0	3541.8
67.5°	1316.9	1324.1	1763.0	3458.6	8007.4	12508.9	8178.2	3738.3	2027.0	1466.1	1413.0
70°	546.5	556.6	647.0	1163.4	3441.4	8031.8	3943.5	1348.4	741.6	601.1	592.5
72.5°	400.2	406.0	433.2	516.4	1058.7	3297.9	1296.8	572.4	434.7	388.8	384.4
75°	314.2	317.0	337.1	380.1	493.5	913.8	539.4	393.1	331.4	298.4	295.5
77.5°	239.6	246.7	261.1	289.8	331.4	433.2	357.2	294.1	255.3	228.1	223.8
80°	165.0	173.6	200.8	212.3	222.3	281.2	243.9	222.3	199.4	166.4	156.4
82.5°	101.9	107.6	134.8	144.9	140.6	157.8	156.4	159.2	142.0	103.3	96.1
85°	53.1	55.9	73.2	76.0	70.3	64.6	80.3	93.2	87.5	58.8	57.4
87.5°	11.5	12.9	15.8	14.3	15.8	15.8	20.1	30.1	31.6	20.1	18.6
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)