

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: P456053

Luminaire Tested: **GALN-SA7B-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40891 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

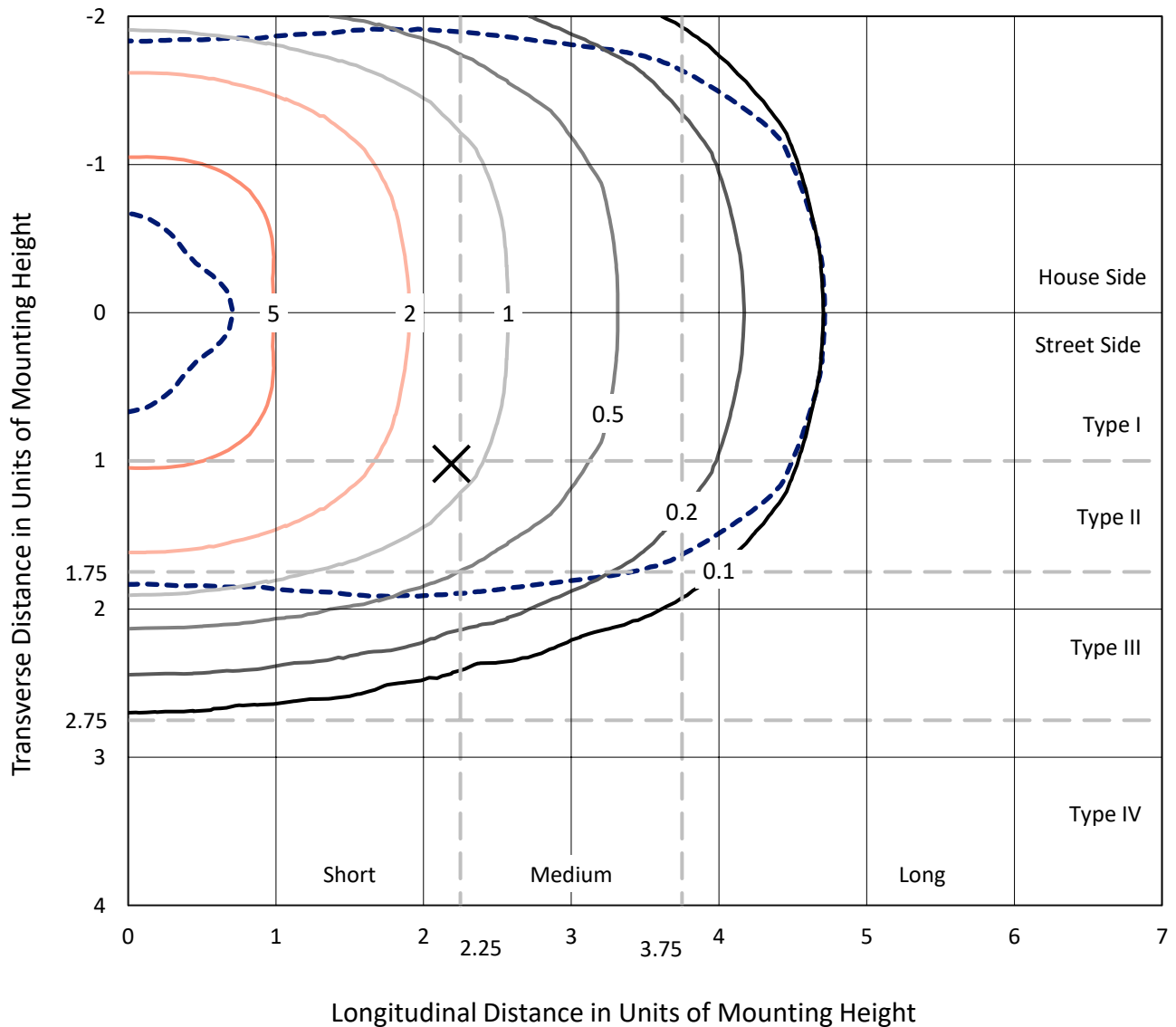
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

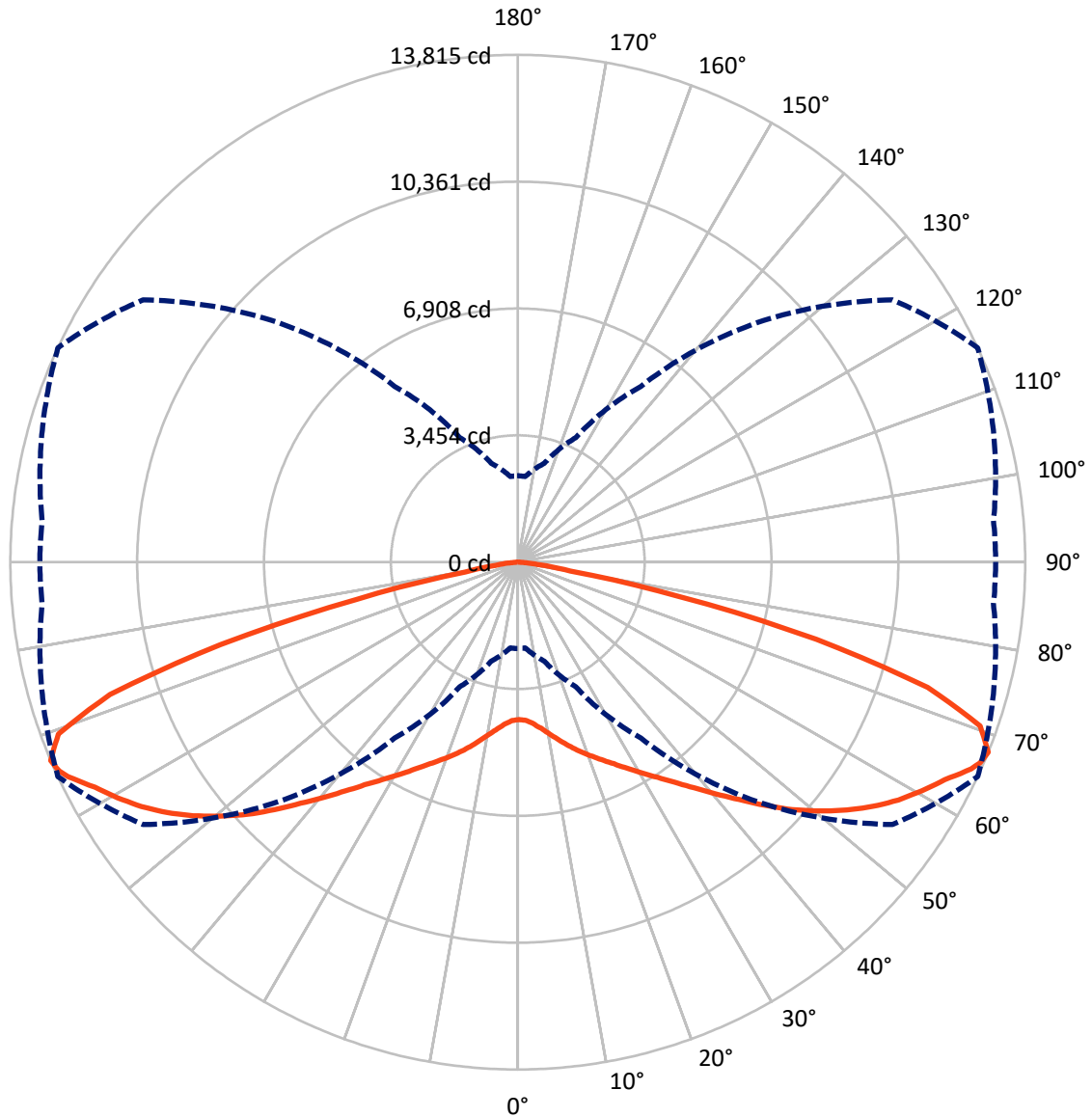
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20445.5	0.0	20445.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20445.5	0.0	20445.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40891.0	0.0	40891.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.4	1.0
10°-20°	1413.8	3.5
20°-30°	2765.5	6.8
30°-40°	4703.7	11.5
40°-50°	7444.6	18.2
50°-60°	9871.3	24.1
60°-70°	9311.7	22.8
70°-80°	4603.3	11.3
80°-90°	354.8	0.9
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°	40891.0	100.0
0°-180°	40891.0	100.0

**Coefficient of Utilization**



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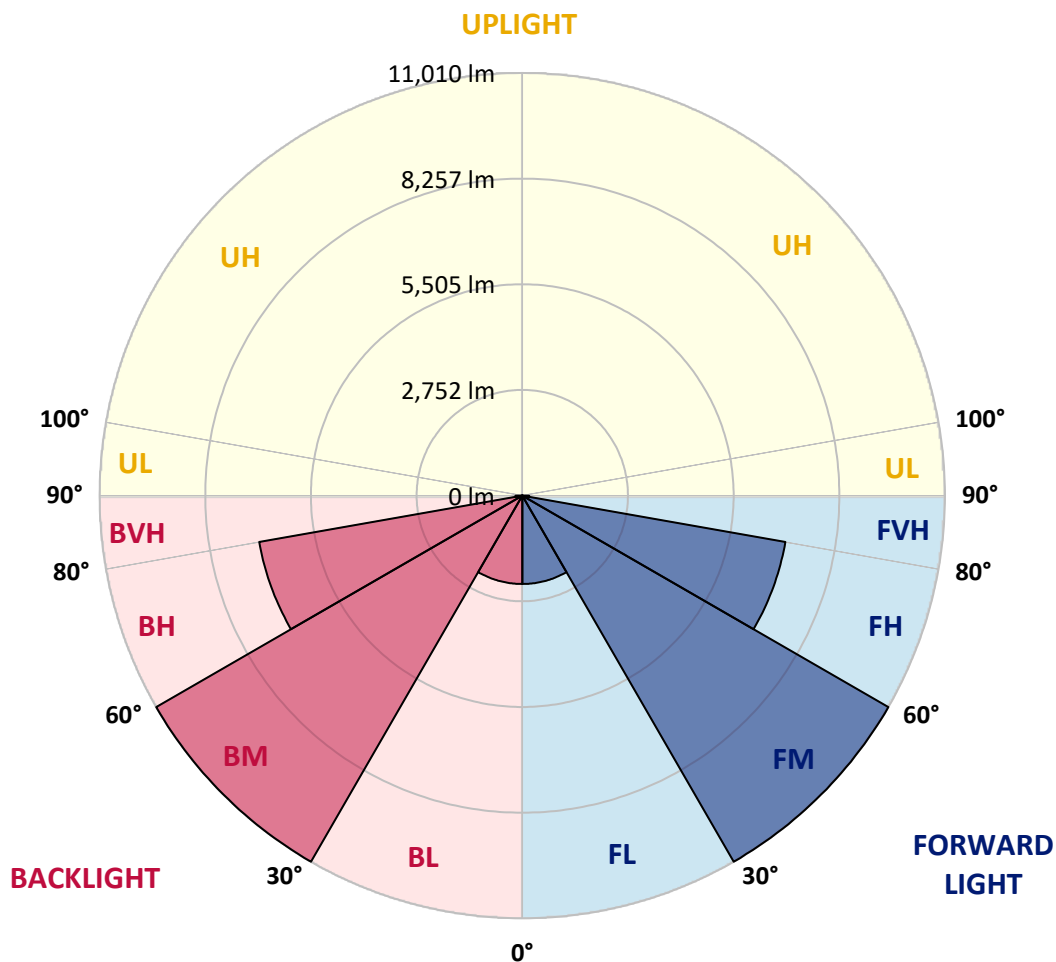
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2300.8	5.6			
FM	(30°-60°)	11009.8	26.9			
FH	(60°-80°)	6957.5	17.0			G3/7500
FVH	(80°-90°)	177.4	0.4			G2/225
BL	(0°-30°)	2300.8	5.6	B3/2500		
BM	(30°-60°)	11009.8	26.9	B5		
BH	(60°-80°)	6957.5	17.0	B5		G5
BVH	(80°-90°)	177.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0
2.5°	4261.1	4265.4	4269.8	4276.4	4285.2	4298.3	4307.1	4313.6	4331.2	4333.4	4331.2
5°	4245.7	4250.1	4261.1	4280.8	4309.3	4348.7	4379.4	4416.6	4445.1	4464.8	4460.4
7.5°	4243.5	4252.3	4269.8	4311.5	4366.2	4434.1	4504.2	4567.8	4622.5	4666.4	4659.8
10°	4278.6	4289.5	4318.0	4379.4	4464.8	4563.4	4662.0	4756.2	4835.0	4892.0	4911.7
12.5°	4337.7	4346.5	4399.1	4491.1	4613.8	4736.5	4848.2	4964.3	5073.8	5170.2	5170.2
15°	4440.7	4456.0	4521.8	4655.4	4806.6	4949.0	5062.9	5185.6	5303.9	5413.4	5446.3
17.5°	4583.1	4605.0	4703.6	4874.5	5067.3	5198.7	5306.1	5406.8	5509.8	5615.0	5630.3
20°	4778.1	4800.0	4931.4	5137.4	5365.2	5523.0	5595.2	5619.3	5669.7	5770.5	5783.7
22.5°	5043.2	5065.1	5211.9	5444.1	5698.2	5869.1	5899.8	5842.8	5829.7	5908.5	5917.3
25°	5343.3	5363.0	5531.7	5781.5	6044.4	6230.6	6221.8	6081.6	6002.7	6050.9	6064.1
27.5°	5680.7	5709.2	5880.0	6138.6	6423.4	6587.7	6561.4	6357.6	6188.9	6180.2	6184.6
30°	6112.3	6142.9	6305.1	6552.6	6833.0	6984.2	6929.4	6655.6	6394.9	6307.3	6307.3
32.5°	6568.0	6644.6	6808.9	7067.5	7286.5	7396.1	7312.8	6984.2	6638.1	6515.4	6508.8
35°	7161.7	7203.3	7365.4	7617.3	7781.6	7867.1	7707.2	7354.4	6955.7	6811.1	6791.4
37.5°	7742.2	7777.3	7965.7	8206.7	8406.0	8401.6	8184.7	7794.8	7350.1	7187.9	7174.8
40°	8335.9	8373.2	8587.9	8809.1	9008.5	8991.0	8728.1	8292.1	7818.9	7637.1	7672.1
42.5°	8850.7	8892.4	9135.5	9451.0	9630.7	9626.3	9321.8	8831.0	8338.1	8176.0	8206.7
45°	9319.6	9356.8	9639.4	10000.9	10263.8	10296.7	9963.7	9444.4	8938.4	8730.3	8739.0
47.5°	9650.4	9720.5	10016.2	10430.3	10787.4	10903.5	10577.1	10068.8	9486.1	9269.2	9282.3
50°	9902.3	9946.1	10268.2	10739.2	11190.5	11431.5	11168.6	10647.2	10033.8	9803.7	9834.4
52.5°	9933.0	9985.6	10336.1	10879.4	11457.8	11823.6	11694.4	11212.4	10592.4	10355.8	10421.5
55°	9683.2	9713.9	10132.3	10791.8	11562.9	12115.0	12147.9	11738.2	11124.8	10945.1	10988.9
57.5°	8971.2	9050.1	9580.3	10382.1	11418.3	12270.5	12487.4	12215.8	11663.7	11486.3	11556.4
60°	7803.6	7882.4	8414.8	9431.3	10872.8	12198.3	12767.9	12638.6	12152.2	12009.8	12047.1
62.5°	6114.5	6107.9	6767.3	8013.9	9788.4	11843.3	12976.0	13046.1	12634.2	12454.6	12511.5
65°	3963.1	3982.8	4620.4	5963.3	8151.9	10940.7	13022.0	13565.3	13107.4	12835.8	12877.4
66°	3187.6	3246.7	3787.9	5025.6	7317.2	10349.2	12884.0	13718.7	13252.0	12923.4	12943.1
67.5°	2352.9	2341.9	2786.7	3741.8	5842.8	9225.4	12452.4	13815.0	13416.3	13002.3	13011.0
70°	1342.9	1340.8	1498.5	2055.0	3435.1	6495.7	10496.0	13352.8	13749.3	13287.1	13263.0
72.5°	981.5	974.9	996.8	1134.8	1675.9	3279.6	7240.5	11670.3	13578.4	13241.1	13173.1
75°	823.7	819.4	815.0	832.5	939.8	1485.3	3842.6	8395.1	11782.0	12428.3	12358.2
77.5°	672.6	672.6	674.8	670.4	674.8	782.1	1592.7	4499.9	7174.8	8009.5	8204.5
80°	525.8	523.6	560.8	545.5	510.5	501.7	705.4	1448.1	2381.4	2368.2	1954.2
82.5°	387.8	361.5	427.2	416.2	376.8	319.9	411.9	617.8	795.3	517.0	383.4
85°	245.4	243.2	302.3	276.0	230.0	151.2	197.2	265.1	328.6	199.4	162.1
87.5°	43.8	41.6	96.4	70.1	70.1	43.8	54.8	72.3	107.3	74.5	54.8
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)