

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: P454661

Luminaire Tested: **GALN-SA5D-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454661  
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-SA5D-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39970 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 309  
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

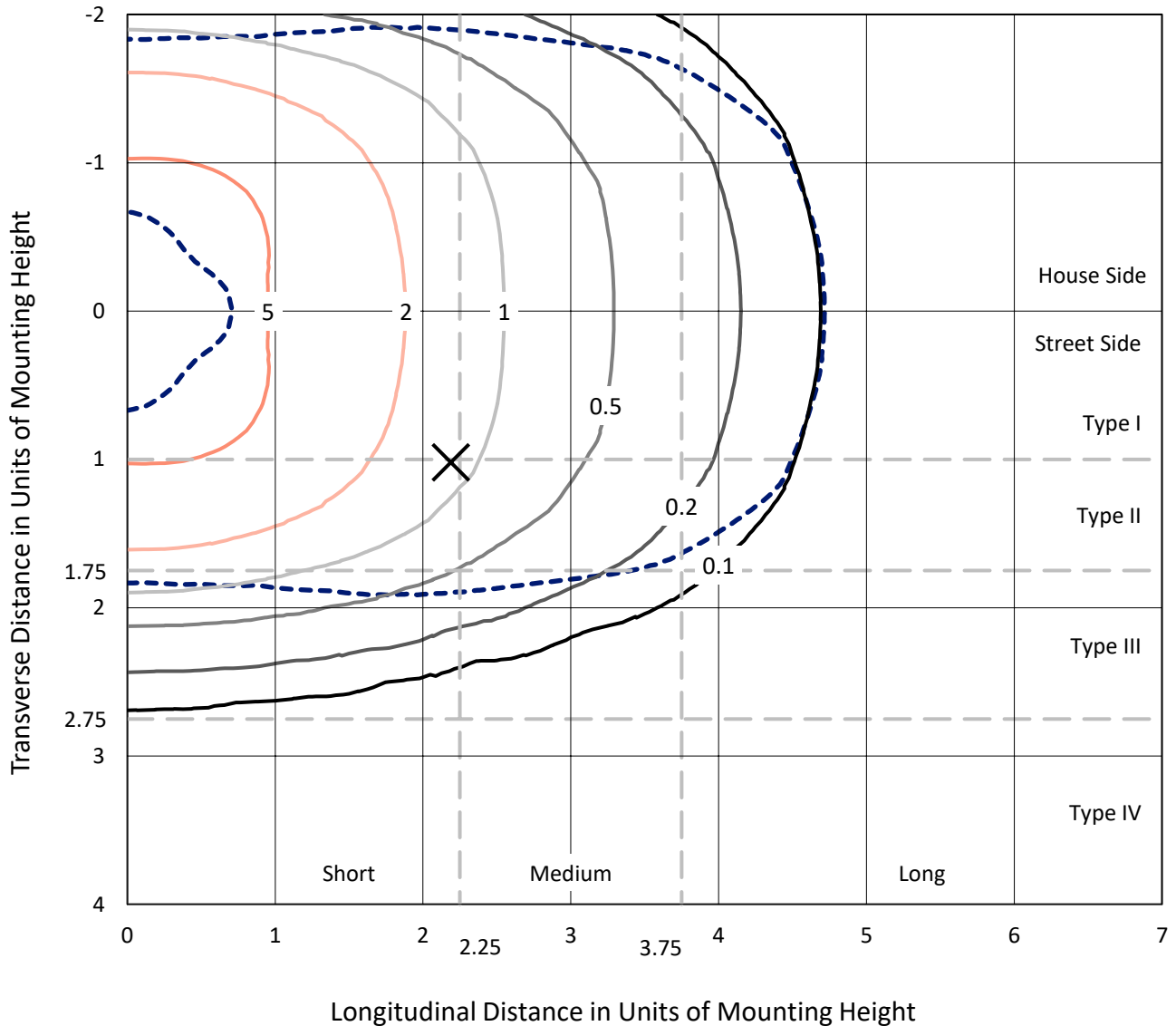




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### Iso-Footcandle Lines of Horizontal Illumination

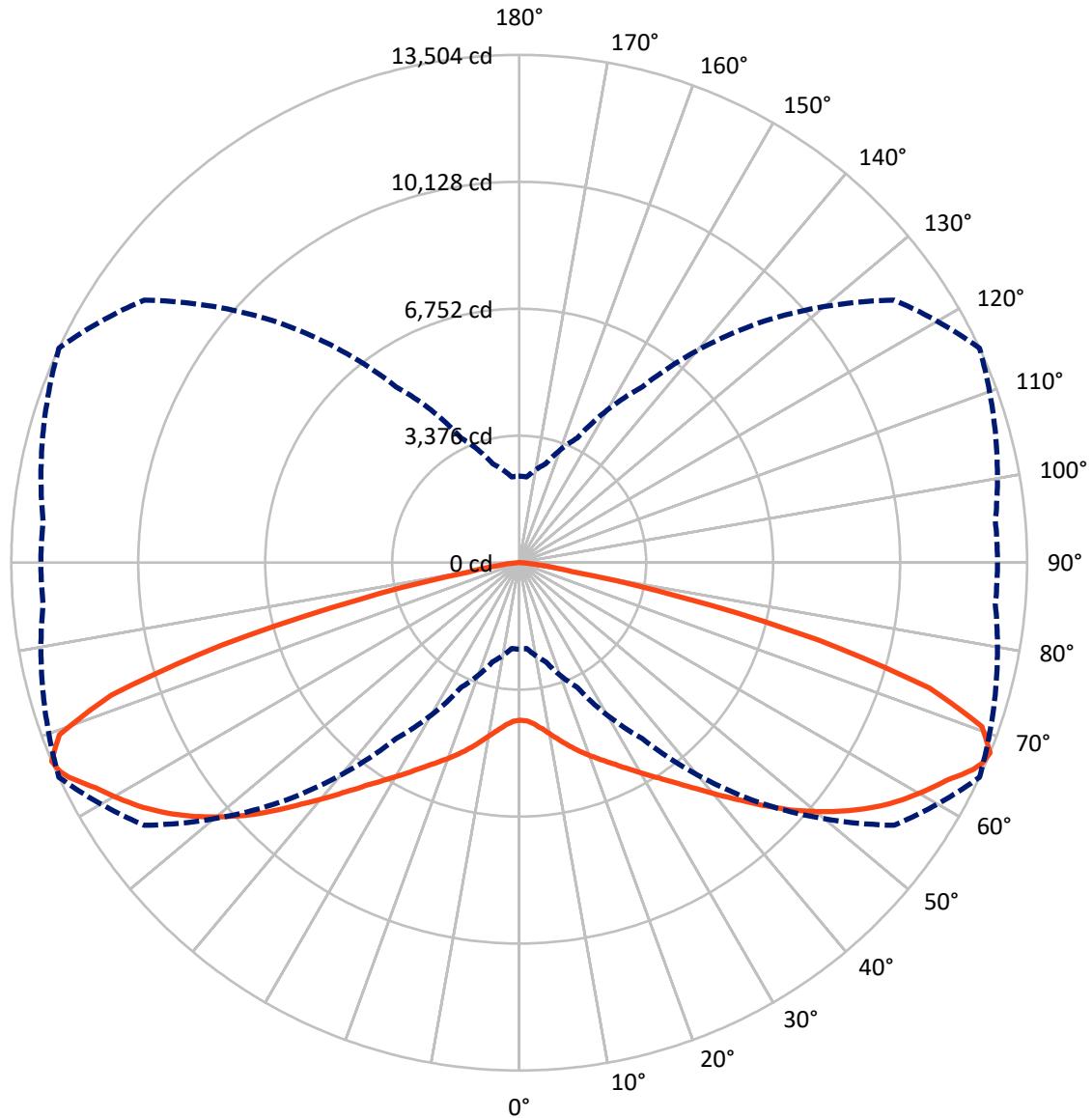
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	19985.0	0.0	19985.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19985.0	0.0	19985.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39970.0	0.0	39970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.9	1.0
10°-20°	1382.0	3.5
20°-30°	2703.2	6.8
30°-40°	4597.8	11.5
40°-50°	7276.9	18.2
50°-60°	9649.0	24.1
60°-70°	9102.0	22.8
70°-80°	4499.6	11.3
80°-90°	346.8	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°	39970.0	100.0
0°-180°	39970.0	100.0

**Coefficient of Utilization**



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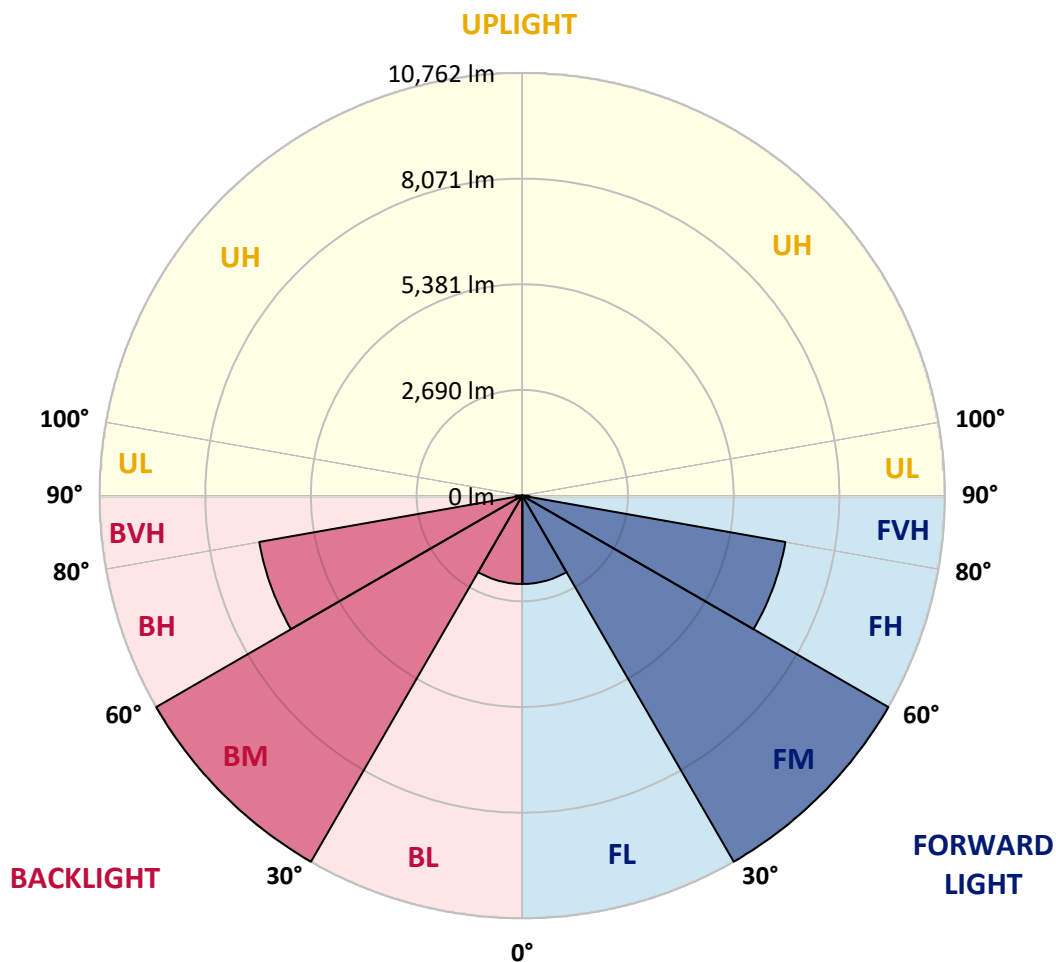
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2249.0	5.6			
FM	(30°-60°)	10761.8	26.9			
FH	(60°-80°)	6800.8	17.0			G3/7500
FVH	(80°-90°)	173.4	0.4			G2/225
BL	(0°-30°)	2249.0	5.6	B3/2500		
BM	(30°-60°)	10761.8	26.9	B5		
BH	(60°-80°)	6800.8	17.0	B5		G5
BVH	(80°-90°)	173.4	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°	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5
2.5°	4165.1	4169.4	4173.7	4180.1	4188.6	4201.5	4210.1	4216.5	4233.6	4235.8	4233.6
5°	4150.1	4154.4	4165.1	4184.4	4212.2	4250.7	4280.7	4317.1	4345.0	4364.2	4360.0
7.5°	4148.0	4156.5	4173.7	4214.3	4267.9	4334.3	4402.8	4464.9	4518.4	4561.3	4554.8
10°	4182.2	4192.9	4220.8	4280.7	4364.2	4460.6	4557.0	4649.1	4726.1	4781.8	4801.1
12.5°	4240.0	4248.6	4300.0	4389.9	4509.9	4629.8	4739.0	4852.5	4959.6	5053.8	5053.8
15°	4340.7	4355.7	4419.9	4550.5	4698.3	4837.5	4948.9	5068.8	5184.4	5291.5	5323.6
17.5°	4479.9	4501.3	4597.7	4764.7	4953.1	5081.6	5186.6	5285.1	5385.7	5488.5	5503.5
20°	4670.5	4691.9	4820.4	5021.7	5244.4	5398.6	5469.2	5492.8	5542.0	5640.5	5653.4
22.5°	4929.6	4951.0	5094.5	5321.5	5569.9	5736.9	5766.9	5711.2	5698.4	5775.4	5784.0
25°	5223.0	5242.2	5407.1	5651.2	5908.2	6090.2	6081.7	5944.6	5867.5	5914.6	5927.5
27.5°	5552.7	5580.6	5747.6	6000.3	6278.7	6439.3	6413.6	6214.4	6049.6	6041.0	6045.3
30°	5974.6	6004.6	6163.0	6405.0	6679.1	6826.9	6773.4	6505.7	6250.8	6165.2	6165.2
32.5°	6420.0	6495.0	6655.6	6908.3	7122.4	7229.5	7148.1	6826.9	6488.5	6368.6	6362.2
35°	7000.4	7041.0	7199.5	7445.8	7606.4	7689.9	7533.6	7188.8	6799.1	6657.7	6638.4
37.5°	7567.8	7602.1	7786.3	8021.8	8216.7	8212.4	8000.4	7619.2	7184.5	7026.0	7013.2
40°	8148.2	8184.6	8394.4	8610.7	8805.6	8788.4	8531.5	8105.3	7642.8	7465.0	7499.3
42.5°	8651.4	8692.1	8929.8	9238.1	9413.7	9409.5	9111.8	8632.1	8150.3	7991.8	8021.8
45°	9109.7	9146.1	9422.3	9775.6	10032.6	10064.7	9739.2	9231.7	8737.1	8533.6	8542.2
47.5°	9433.0	9501.5	9790.6	10195.4	10544.4	10657.9	10338.8	9842.0	9272.4	9060.4	9073.3
50°	9679.3	9722.1	10036.9	10497.3	10938.4	11174.0	10917.0	10407.4	9807.8	9582.9	9612.9
52.5°	9709.3	9760.7	10103.3	10634.4	11199.7	11557.3	11431.0	10959.9	10353.8	10122.6	10186.8
55°	9465.1	9495.1	9904.1	10548.7	11302.5	11842.1	11874.3	11473.8	10874.2	10698.6	10741.4
57.5°	8769.2	8846.3	9364.5	10148.3	11161.2	11994.2	12206.2	11940.6	11401.0	11227.5	11296.1
60°	7627.8	7704.9	8225.3	9218.9	10627.9	11923.5	12480.3	12353.9	11878.5	11739.3	11775.7
62.5°	5976.7	5970.3	6614.9	7833.4	9567.9	11576.6	12683.7	12752.2	12349.7	12174.1	12229.7
65°	3873.9	3893.1	4516.3	5829.0	7968.3	10694.3	12728.7	13259.8	12812.2	12546.7	12587.4
66°	3115.8	3173.6	3702.5	4912.5	7152.4	10116.1	12593.8	13409.7	12953.5	12632.3	12651.6
67.5°	2299.9	2289.2	2723.9	3657.6	5711.2	9017.6	12171.9	13503.9	13114.1	12709.4	12718.0
70°	1312.7	1310.6	1464.7	2008.7	3357.8	6349.4	10259.6	13052.0	13439.6	12987.8	12964.2
72.5°	959.4	952.9	974.4	1109.3	1638.2	3205.7	7077.4	11407.4	13272.6	12942.8	12876.4
75°	805.2	800.9	796.6	813.7	918.7	1451.9	3756.1	8206.0	11516.6	12148.4	12079.8
77.5°	657.4	657.4	659.6	655.3	659.6	764.5	1556.8	4398.5	7013.2	7829.1	8019.7
80°	513.9	511.8	548.2	533.2	499.0	490.4	689.5	1415.5	2327.7	2314.9	1910.2
82.5°	379.0	353.3	417.6	406.9	368.3	312.6	402.6	603.9	777.3	505.4	374.8
85°	239.8	237.7	295.5	269.8	224.9	147.8	192.7	259.1	321.2	194.9	158.5
87.5°	42.8	40.7	94.2	68.5	68.5	42.8	53.5	70.7	104.9	72.8	53.5
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)