

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: P454603

Luminaire Tested: **GALN-SA5D-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454603  
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-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33427 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

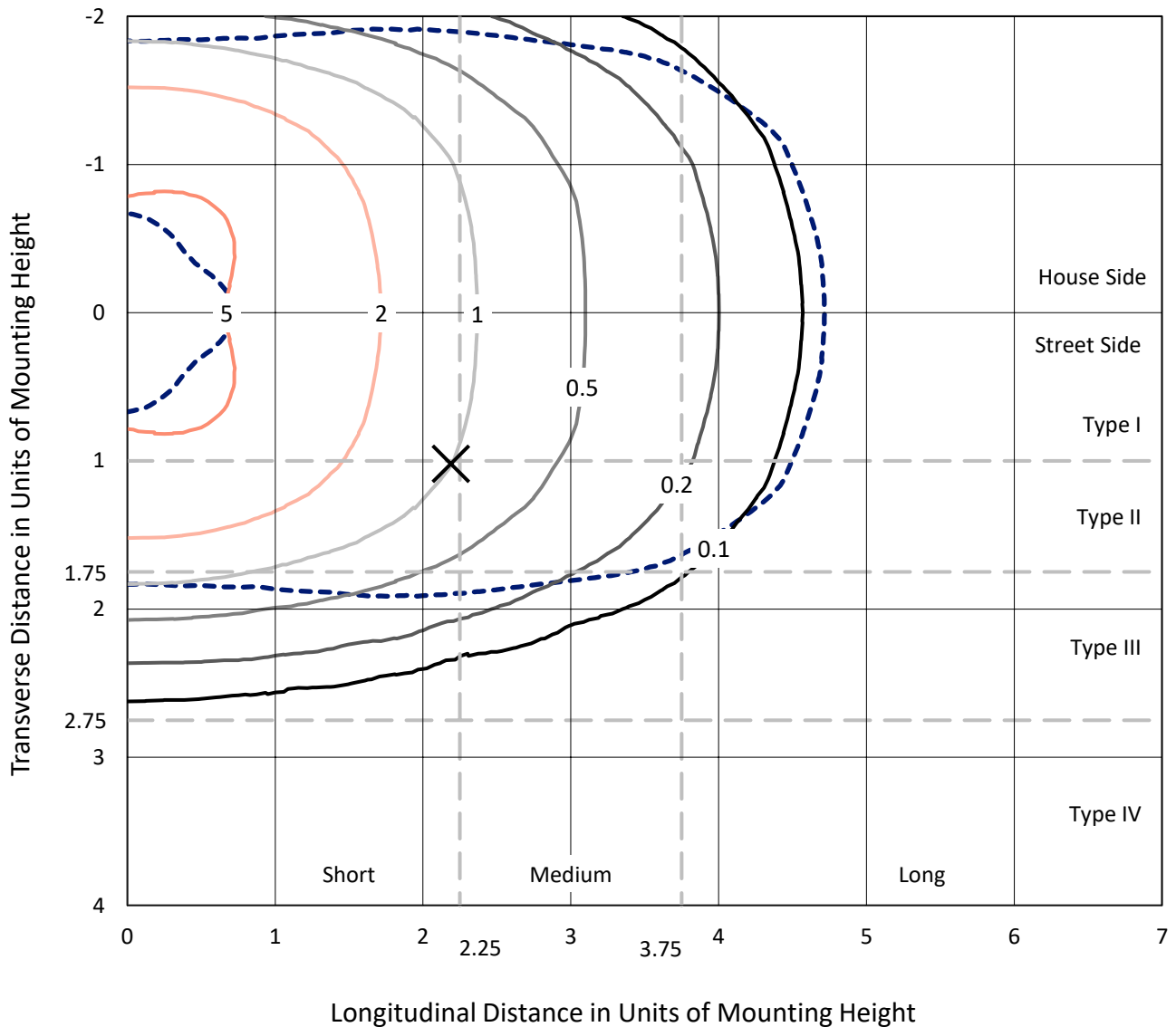
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454603  
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### Iso-Footcandle Lines of Horizontal Illumination

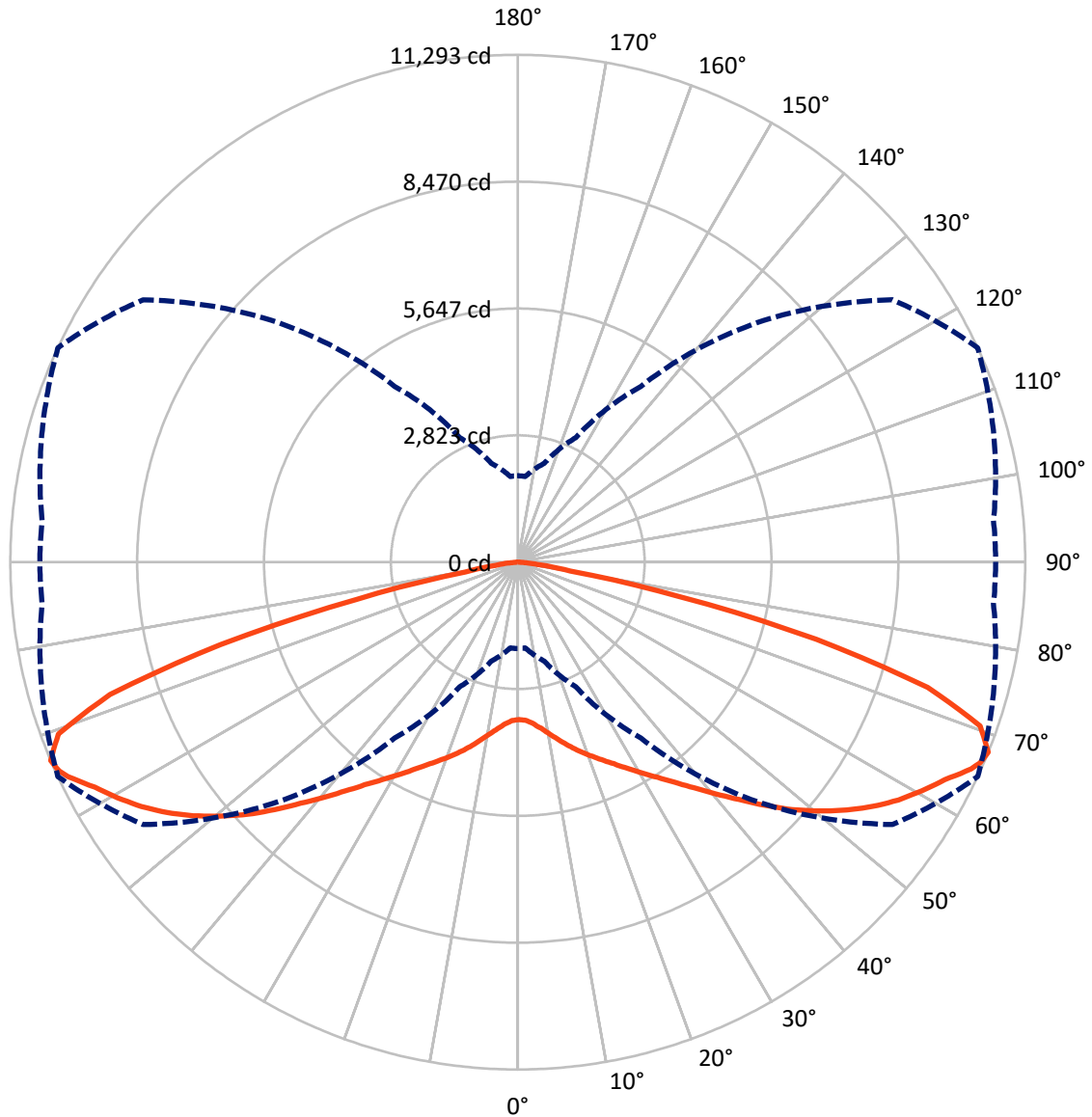
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P454603  
CATALOG NUMBER: GALN-SA5D-727-U-RW

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA5D-727-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16713.5	0.0	16713.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16713.5	0.0	16713.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33427.0	0.0	33427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.3	1.0
10°-20°	1155.7	3.5
20°-30°	2260.7	6.8
30°-40°	3845.1	11.5
40°-50°	6085.7	18.2
50°-60°	8069.5	24.1
60°-70°	7612.0	22.8
70°-80°	3763.0	11.3
80°-90°	290.0	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°	33427.0	100.0
0°-180°	33427.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454603

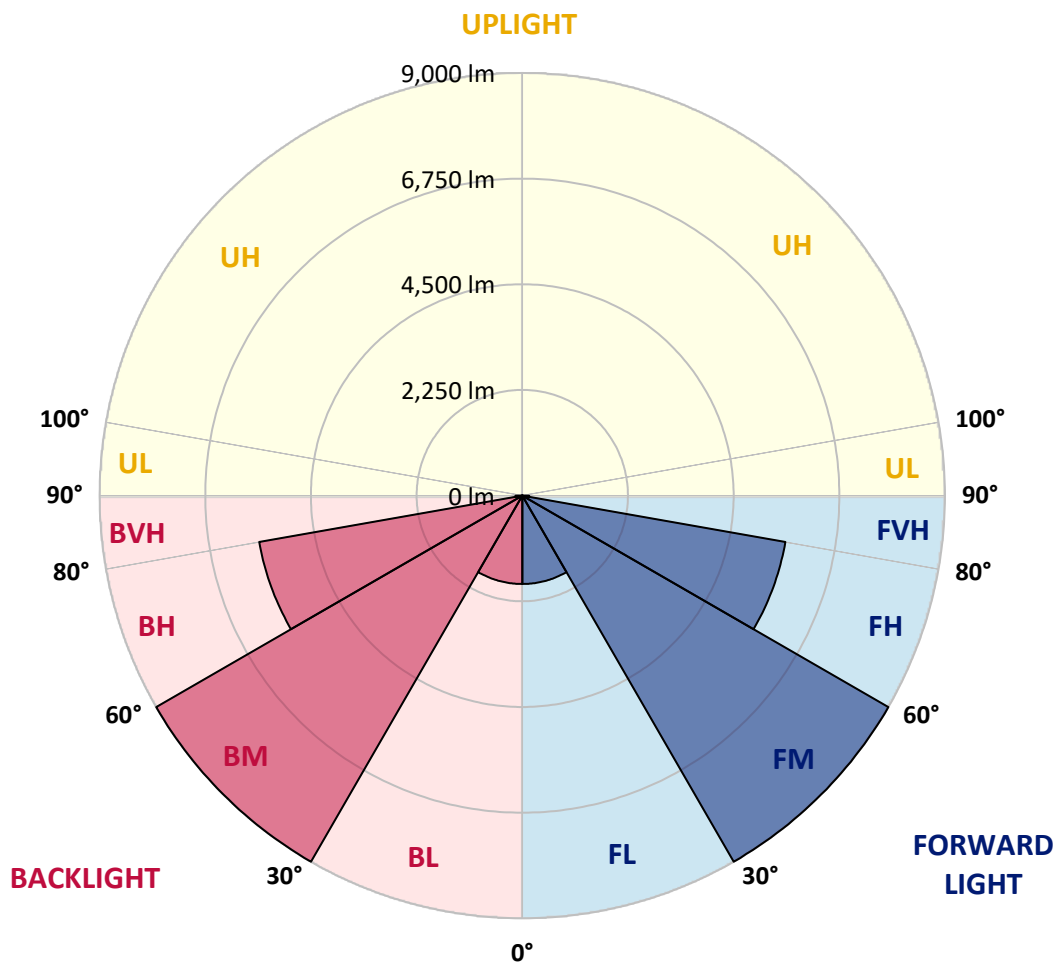
CATALOG NUMBER: GALN-SA5D-727-U-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1880.9	5.6			
FM	(30°-60°)	9000.1	26.9			
FH	(60°-80°)	5687.5	17.0			G3/7500
FVH	(80°-90°)	145.0	0.4			G2/225
BL	(0°-30°)	1880.9	5.6	B3/2500		
BM	(30°-60°)	9000.1	26.9	B5		
BH	(60°-80°)	5687.5	17.0	B5		G5
BVH	(80°-90°)	145.0	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°	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2	3501.2
2.5°	3483.3	3486.9	3490.4	3495.8	3503.0	3513.7	3520.9	3526.3	3540.6	3542.4	3540.6
5°	3470.7	3474.3	3483.3	3499.4	3522.7	3554.9	3580.0	3610.4	3633.7	3649.8	3646.2
7.5°	3468.9	3476.1	3490.4	3524.5	3569.2	3624.8	3682.1	3734.0	3778.8	3814.6	3809.2
10°	3497.6	3506.6	3529.8	3580.0	3649.8	3730.4	3811.0	3888.0	3952.5	3999.0	4015.2
12.5°	3546.0	3553.1	3596.1	3671.3	3771.6	3871.9	3963.2	4058.1	4147.7	4226.5	4226.5
15°	3630.1	3642.7	3696.4	3805.6	3929.2	4045.6	4138.7	4239.0	4335.7	4425.3	4452.1
17.5°	3746.5	3764.4	3845.0	3984.7	4142.3	4249.8	4337.5	4419.9	4504.1	4590.0	4602.6
20°	3905.9	3923.8	4031.3	4199.6	4385.9	4514.8	4573.9	4593.6	4634.8	4717.2	4727.9
22.5°	4122.6	4140.5	4260.5	4450.4	4658.1	4797.8	4822.9	4776.3	4765.5	4830.0	4837.2
25°	4368.0	4384.1	4522.0	4726.1	4941.1	5093.3	5086.1	4971.5	4907.0	4946.4	4957.2
27.5°	4643.8	4667.1	4806.7	5018.1	5250.9	5385.2	5363.7	5197.2	5059.3	5052.1	5055.7
30°	4996.6	5021.6	5154.2	5356.5	5585.8	5709.3	5664.6	5440.7	5227.6	5156.0	5156.0
32.5°	5369.1	5431.8	5566.1	5777.4	5956.5	6046.0	5978.0	5709.3	5426.4	5326.1	5320.7
35°	5854.4	5888.4	6021.0	6226.9	6361.2	6431.1	6300.3	6012.0	5686.1	5567.9	5551.7
37.5°	6329.0	6357.6	6511.7	6708.7	6871.6	6868.1	6690.8	6372.0	6008.4	5875.9	5865.2
40°	6814.3	6844.8	7020.3	7201.2	7364.1	7349.8	7134.9	6778.5	6391.7	6243.0	6271.7
42.5°	7235.2	7269.2	7468.0	7725.9	7872.7	7869.2	7620.2	7219.1	6816.1	6683.6	6708.7
45°	7618.4	7648.9	7879.9	8175.4	8390.3	8417.2	8145.0	7720.5	7306.8	7136.7	7143.8
47.5°	7888.9	7946.2	8187.9	8526.4	8818.3	8913.2	8646.4	8230.9	7754.5	7577.2	7588.0
50°	8094.8	8130.6	8393.9	8778.9	9147.8	9344.8	9129.9	8703.7	8202.3	8014.2	8039.3
52.5°	8119.9	8162.9	8449.4	8893.5	9366.3	9665.4	9559.8	9165.8	8658.9	8465.5	8519.2
55°	7915.7	7940.8	8282.9	8821.9	9452.3	9903.6	9930.5	9595.6	9094.1	8947.3	8983.1
57.5°	7333.7	7398.2	7831.5	8487.0	9334.1	10030.8	10208.1	9986.0	9534.7	9389.6	9446.9
60°	6379.1	6443.6	6878.8	7709.8	8888.2	9971.7	10437.3	10331.6	9934.0	9817.6	9848.1
62.5°	4998.4	4993.0	5532.0	6551.1	8001.7	9681.5	10607.4	10664.7	10328.0	10181.2	10227.8
65°	3239.7	3255.8	3777.0	4874.8	6663.9	8943.7	10645.0	11089.2	10714.9	10492.8	10526.8
66°	2605.7	2654.1	3096.4	4108.3	5981.6	8460.1	10532.2	11214.5	10833.1	10564.4	10580.6
67.5°	1923.4	1914.5	2278.0	3058.8	4776.3	7541.4	10179.4	11293.3	10967.4	10628.9	10636.1
70°	1097.8	1096.0	1225.0	1679.9	2808.1	5310.0	8580.1	10915.5	11239.6	10861.7	10842.0
72.5°	802.3	796.9	814.9	927.7	1370.0	2681.0	5918.9	9540.1	11099.9	10824.1	10768.6
75°	673.4	669.8	666.2	680.5	768.3	1214.2	3141.2	6862.7	9631.4	10159.7	10102.4
77.5°	549.8	549.8	551.6	548.0	551.6	639.3	1302.0	3678.5	5865.2	6547.5	6706.9
80°	429.8	428.0	458.5	445.9	417.3	410.1	576.7	1183.8	1946.7	1935.9	1597.5
82.5°	317.0	295.5	349.2	340.3	308.0	261.5	336.7	505.0	650.1	422.6	313.4
85°	200.6	198.8	247.1	225.7	188.0	123.6	161.2	216.7	268.6	163.0	132.5
87.5°	35.8	34.0	78.8	57.3	57.3	35.8	44.8	59.1	87.8	60.9	44.8
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)