

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: P454627

Luminaire Tested: **GALN-SA5D-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454627
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-SA5D-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37004 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

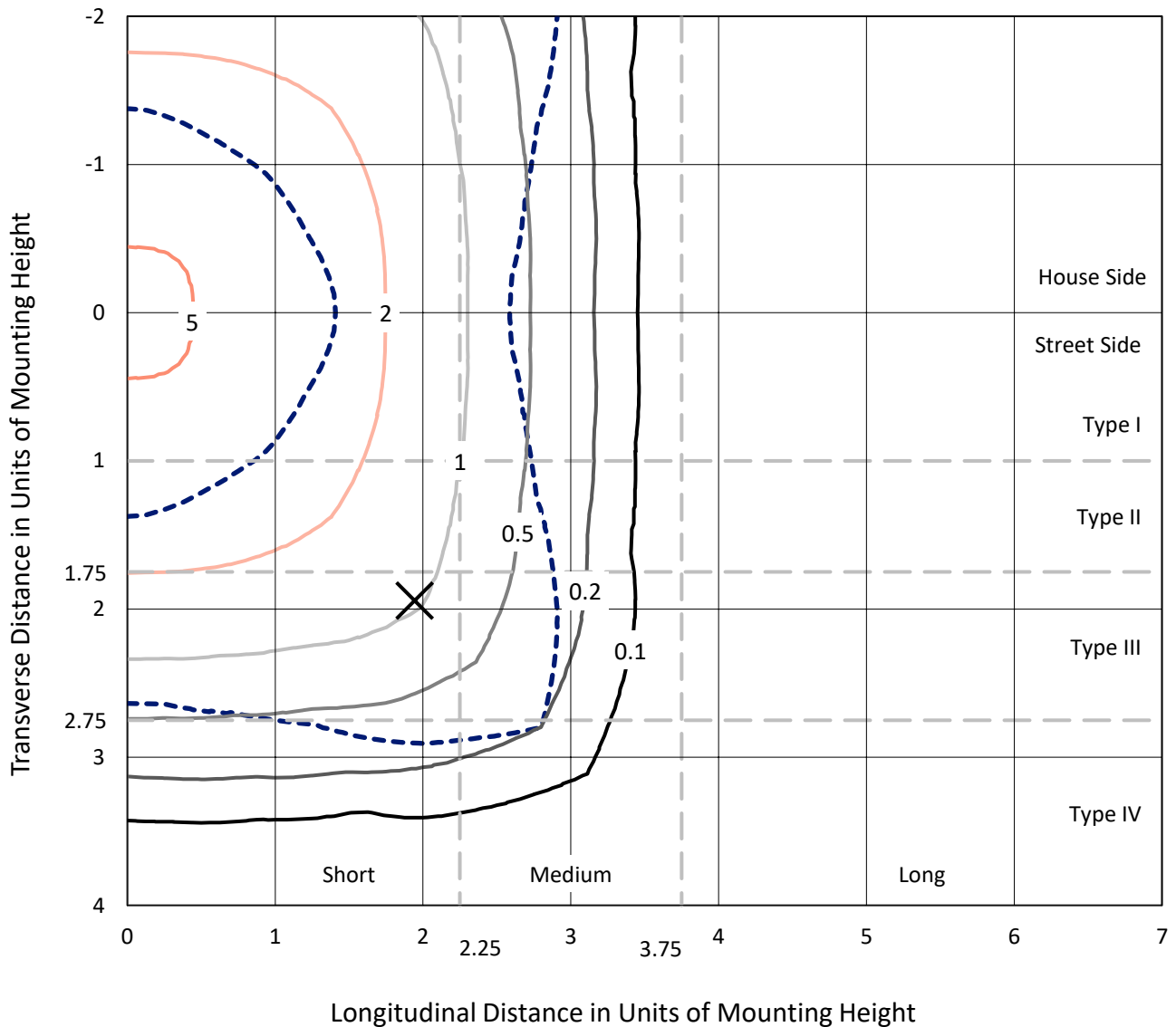
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

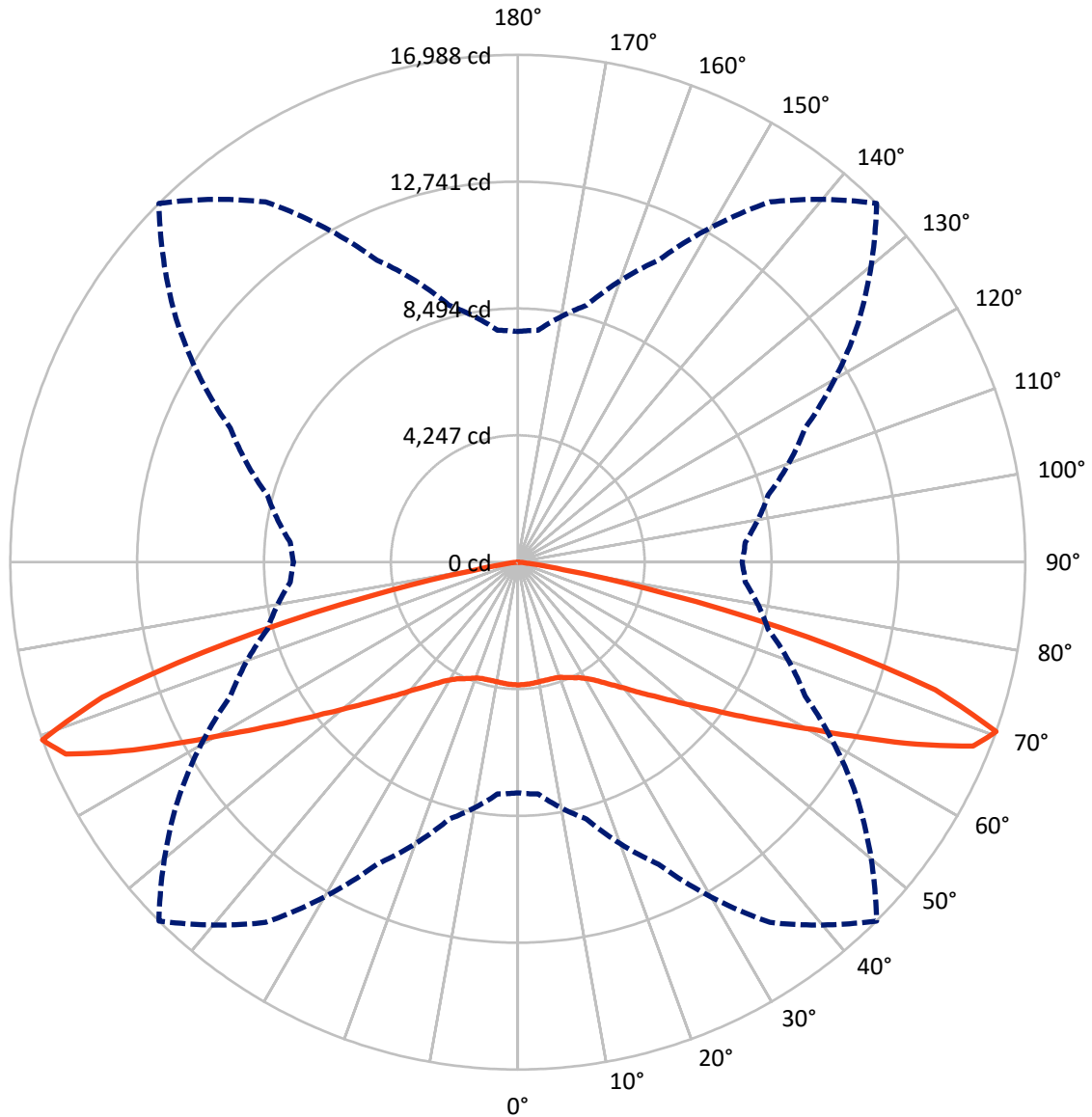
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	18502.0	0.0	18502.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18502.0	0.0	18502.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37004.0	0.0	37004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	1.1
10°-20°	1143.4	3.1
20°-30°	1955.6	5.3
30°-40°	3104.0	8.4
40°-50°	5007.6	13.5
50°-60°	8147.4	22.0
60°-70°	11810.8	31.9
70°-80°	5238.9	14.2
80°-90°	206.6	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°	37004.0	100.0
0°-180°	37004.0	100.0

Coefficient of Utilization



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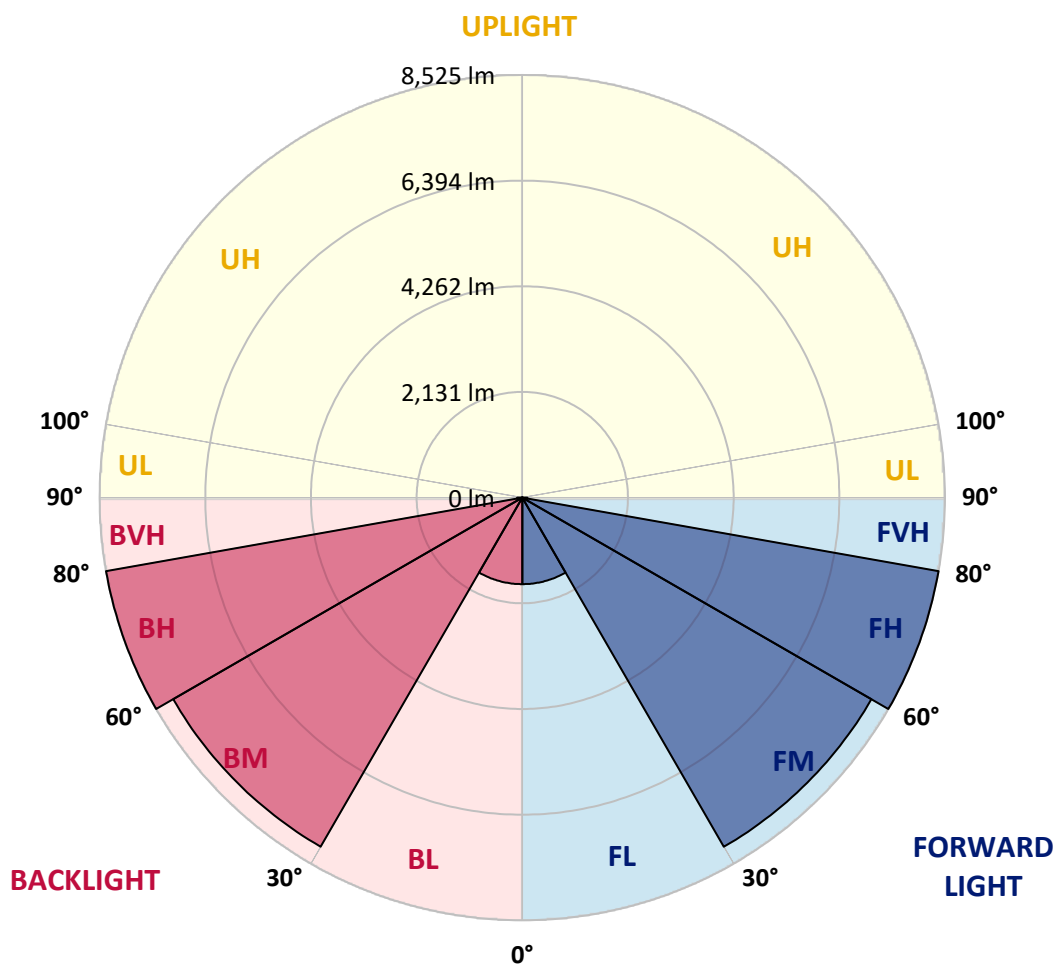
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1744.4	4.7			
FM	(30°-60°)	8129.5	22.0			
FH	(60°-80°)	8524.8	23.0			G4/12000
FVH	(80°-90°)	103.3	0.3			G2/225
BL	(0°-30°)	1744.4	4.7	B3/2500		
BM	(30°-60°)	8129.5	22.0	B4/8500		
BH	(60°-80°)	8524.8	23.0	B5		G4/12000
BVH	(80°-90°)	103.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1
2.5°	4109.1	4113.0	4107.2	4103.3	4101.3	4101.3	4099.4	4101.3	4113.0	4115.0	4109.1
5°	4097.4	4101.3	4099.4	4095.5	4093.5	4093.5	4091.6	4089.6	4099.4	4103.3	4101.3
7.5°	4081.8	4083.8	4081.8	4079.9	4081.8	4079.9	4074.0	4070.1	4077.9	4077.9	4076.0
10°	4054.5	4058.4	4056.5	4058.4	4062.3	4062.3	4054.5	4046.7	4048.7	4044.8	4044.8
12.5°	4021.4	4027.2	4029.2	4037.0	4046.7	4058.4	4040.9	4023.3	4019.4	4017.5	4015.5
15°	3999.9	4005.8	4013.6	4021.4	4038.9	4064.3	4038.9	4011.6	4003.8	3996.0	3992.1
17.5°	3994.1	4001.9	4013.6	4025.3	4048.7	4074.0	4052.6	4025.3	4005.8	3994.1	3990.2
20°	4009.7	4015.5	4033.1	4054.5	4087.7	4113.0	4091.6	4062.3	4033.1	4015.5	4009.7
22.5°	4040.9	4050.6	4072.1	4111.1	4157.9	4194.9	4165.7	4116.9	4070.1	4046.7	4038.9
25°	4109.1	4116.9	4142.3	4194.9	4249.5	4284.6	4253.4	4196.9	4132.5	4101.3	4091.6
27.5°	4212.5	4224.2	4251.5	4313.9	4358.7	4378.3	4356.8	4317.8	4271.0	4237.8	4230.0
30°	4358.7	4372.4	4413.4	4479.7	4508.9	4520.6	4510.9	4485.5	4452.4	4417.3	4409.5
32.5°	4555.7	4563.5	4610.3	4672.7	4700.0	4703.9	4692.2	4680.5	4625.9	4567.4	4563.5
35°	4776.1	4789.7	4846.3	4920.4	4945.8	4947.7	4924.3	4906.8	4842.4	4795.6	4795.6
37.5°	5068.6	5074.5	5129.1	5212.9	5240.2	5232.4	5220.7	5205.1	5136.9	5076.4	5078.4
40°	5411.9	5423.6	5470.4	5567.9	5567.9	5558.1	5565.9	5554.2	5486.0	5427.5	5429.4
42.5°	5819.5	5825.3	5881.9	5985.2	5977.4	5957.9	5965.7	5950.1	5907.2	5840.9	5817.5
45°	6254.4	6277.8	6375.3	6474.7	6459.1	6396.7	6427.9	6424.0	6385.0	6285.6	6291.4
47.5°	6779.0	6818.0	6911.6	7030.6	7013.0	6915.5	6950.6	6974.0	6919.4	6810.2	6790.7
50°	7369.9	7395.2	7533.7	7644.9	7629.3	7525.9	7605.9	7609.8	7473.3	7319.2	7319.2
52.5°	7999.8	8025.2	8212.4	8386.0	8395.7	8245.5	8309.9	8306.0	8083.7	7880.9	7841.8
55°	8705.8	8717.5	8959.3	9214.8	9269.4	9123.1	9130.9	9052.9	8764.3	8528.3	8506.9
57.5°	9435.2	9478.1	9745.3	10076.8	10238.7	10149.0	10108.0	9899.3	9620.4	9349.4	9335.7
60°	10242.6	10244.5	10591.7	10983.7	11311.3	11371.8	11204.0	10925.1	10564.4	10205.5	10189.9
62.5°	10802.3	10886.1	11324.9	11988.0	12575.0	12914.4	12471.7	11886.6	11176.7	10597.5	10539.0
65°	10917.3	10973.9	11642.8	12766.2	13965.5	14696.9	13673.0	12428.8	11217.7	10445.4	10406.4
67.5°	9987.1	10047.5	10948.6	12672.5	14940.7	16440.4	14453.1	12167.4	10523.4	9567.8	9491.7
70°	7724.8	7793.1	8906.7	11155.3	14724.2	16988.4	13897.3	10613.1	8678.5	7646.8	7508.4
72.5°	4107.2	4358.7	5310.5	7656.6	11951.0	14626.7	11395.2	7744.3	5597.1	4575.2	4391.9
75°	1499.7	1530.9	2061.4	3395.3	6952.5	10030.0	7219.7	3693.7	2123.8	1640.1	1556.3
77.5°	620.2	618.2	678.7	1025.8	2525.5	5136.9	2818.1	1084.3	676.7	626.0	618.2
80°	366.6	366.6	403.7	427.1	665.0	1550.4	743.0	483.7	405.6	370.5	376.4
82.5°	163.8	173.6	255.5	269.1	321.8	425.1	358.8	308.1	265.2	183.3	165.8
85°	89.7	78.0	134.6	140.4	154.1	158.0	169.7	167.7	154.1	89.7	91.7
87.5°	17.6	21.5	39.0	29.3	33.2	29.3	39.0	54.6	56.6	31.2	25.4
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)