

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: P456514

Luminaire Tested: **GALN-SA7D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56393 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

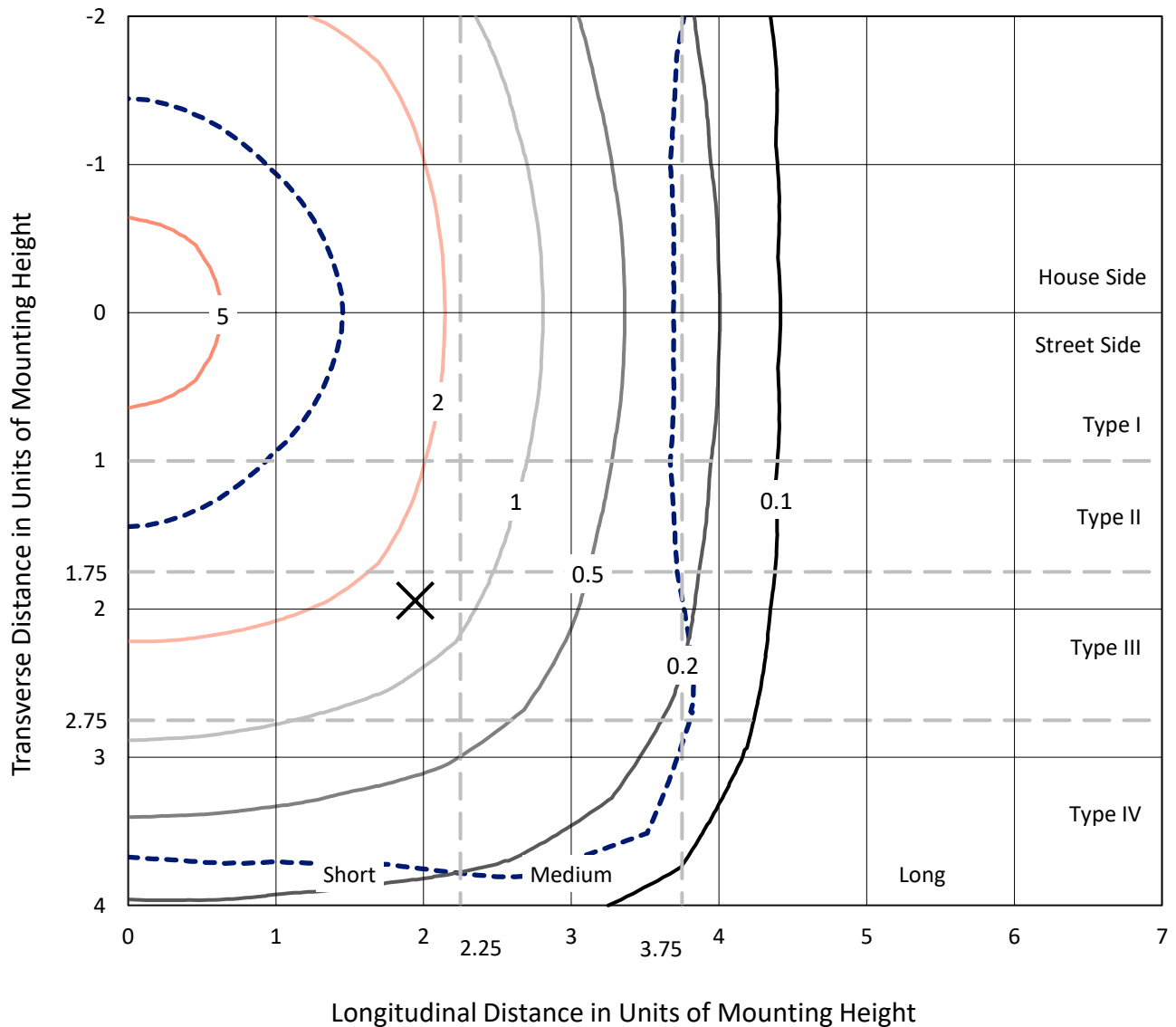
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

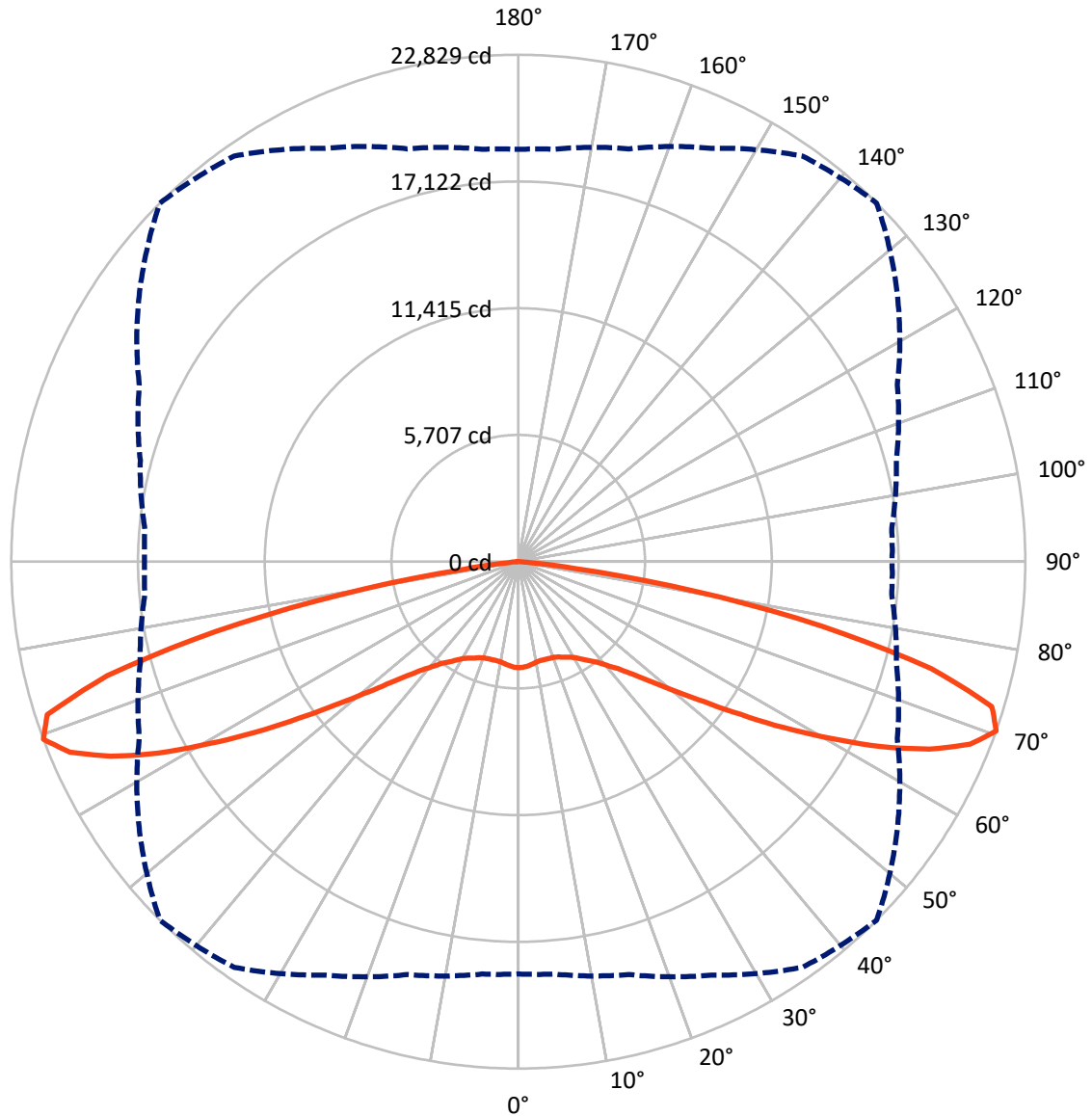
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	28196.5	0.0	28196.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28196.5	0.0	28196.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	56393.0	0.0	56393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	0.8
10°-20°	1307.1	2.3
20°-30°	2227.0	3.9
30°-40°	3451.9	6.1
40°-50°	5810.0	10.3
50°-60°	10571.1	18.7
60°-70°	17896.6	31.7
70°-80°	13852.7	24.6
80°-90°	830.1	1.5
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°	56393.0	100.0
0°-180°	56393.0	100.0

Coefficient of Utilization



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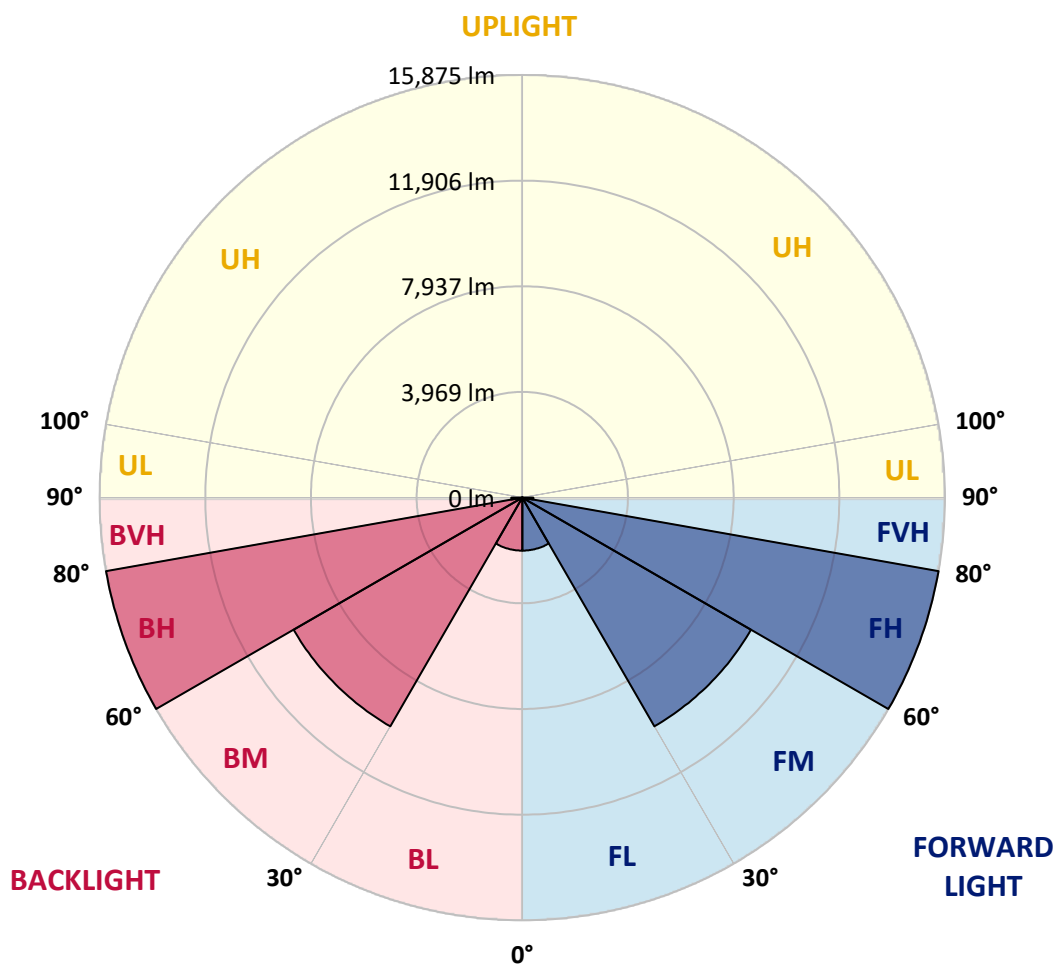
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.3	3.5			
FM (30°-60°)	9916.5	17.6			
FH (60°-80°)	15874.6	28.1			G5
FVH (80°-90°)	415.0	0.7			G3/500
BL (0°-30°)	1990.3	3.5	B3/2500		
BM (30°-60°)	9916.5	17.6	B5		
BH (60°-80°)	15874.6	28.1	B5		G5
BVH (80°-90°)	415.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4	4774.4
2.5°	4762.4	4765.4	4765.4	4759.5	4756.5	4756.5	4753.5	4753.5	4762.4	4765.4	4768.4
5°	4720.7	4720.7	4720.7	4717.8	4711.8	4711.8	4705.9	4705.9	4708.8	4717.8	4711.8
7.5°	4664.2	4670.1	4670.1	4658.2	4649.3	4649.3	4646.3	4649.3	4652.2	4661.2	4658.2
10°	4646.3	4649.3	4634.4	4613.5	4598.6	4598.6	4592.7	4598.6	4613.5	4619.5	4622.5
12.5°	4658.2	4658.2	4631.4	4601.6	4574.8	4574.8	4559.9	4580.8	4607.6	4625.4	4631.4
15°	4673.1	4667.1	4634.4	4595.7	4568.8	4568.8	4562.9	4577.8	4616.5	4652.2	4655.2
17.5°	4682.0	4679.0	4637.4	4589.7	4574.8	4574.8	4571.8	4583.7	4625.4	4670.1	4673.1
20°	4711.8	4702.9	4655.2	4604.6	4592.7	4598.6	4589.7	4604.6	4649.3	4702.9	4714.8
22.5°	4771.4	4762.4	4714.8	4664.2	4658.2	4658.2	4655.2	4670.1	4717.8	4774.4	4783.3
25°	4842.9	4833.9	4789.2	4753.5	4759.5	4771.4	4765.4	4768.4	4807.1	4854.8	4869.7
27.5°	4938.2	4923.3	4884.6	4854.8	4872.6	4872.6	4872.6	4869.7	4893.5	4938.2	4953.1
30°	5054.3	5048.4	5006.7	5003.7	5018.6	5003.7	5003.7	5006.7	5009.7	5051.3	5066.2
32.5°	5206.2	5194.3	5173.5	5167.5	5209.2	5221.1	5179.4	5140.7	5161.5	5203.2	5212.2
35°	5456.4	5438.5	5408.8	5376.0	5408.8	5465.3	5376.0	5346.2	5399.8	5456.4	5462.4
37.5°	5795.9	5787.0	5739.4	5679.8	5676.8	5736.4	5644.0	5641.1	5742.3	5810.8	5819.8
40°	6221.9	6230.8	6171.2	6114.6	6084.8	6132.5	6061.0	6087.8	6186.1	6263.6	6257.6
42.5°	6820.5	6787.7	6695.4	6641.8	6609.0	6591.2	6573.3	6615.0	6725.2	6808.6	6874.1
45°	7520.4	7508.5	7392.4	7326.8	7255.4	7228.6	7222.6	7297.1	7431.1	7532.3	7541.3
47.5°	8312.7	8285.9	8211.4	8142.9	8116.1	8083.3	8053.6	8110.2	8244.2	8315.7	8336.5
50°	9128.8	9134.7	9134.7	9122.8	9149.6	9155.6	9075.2	9096.0	9170.5	9164.5	9158.5
52.5°	10061.0	10093.8	10248.6	10263.5	10391.6	10478.0	10332.0	10245.7	10218.9	10058.0	10069.9
55°	11157.0	11186.8	11419.1	11651.5	11997.0	12142.9	11836.1	11568.1	11377.4	11133.2	11145.1
57.5°	12524.1	12539.0	12759.4	13206.2	13754.2	14096.7	13557.6	13027.5	12640.3	12408.0	12315.6
60°	13995.5	14010.3	14332.0	14877.1	15728.9	16145.8	15478.7	14612.0	14123.5	13769.1	13792.9
62.5°	15761.6	15821.2	16110.1	16860.7	17894.2	18361.8	17477.2	16318.6	15657.4	15216.6	15234.5
65°	17652.9	17754.2	18069.9	18894.9	19848.0	20351.3	19267.2	17929.9	17107.9	16568.8	16625.4
67.5°	18880.0	18969.4	19425.1	20336.4	21524.8	21941.8	20542.0	18984.3	17956.7	17313.4	17194.2
70°	18567.3	18641.7	19249.3	20542.0	22302.2	22829.4	20845.7	18829.4	17620.2	16878.5	16830.9
72.5°	16390.1	16235.2	17122.8	18978.3	21414.6	22299.2	19889.7	17197.2	15675.3	14912.8	14823.4
75°	10862.2	11198.7	12509.2	14695.4	18117.5	19213.6	16976.8	13807.8	11892.7	11258.3	11160.0
77.5°	3630.7	3889.8	5054.3	8330.6	12351.4	13998.4	12369.3	9030.5	6388.6	5146.7	5170.5
80°	962.0	950.1	1230.1	2290.4	5337.3	8107.2	6212.9	3058.8	1673.9	1212.2	1149.7
82.5°	345.5	387.2	497.4	634.4	1414.7	2519.7	1778.1	857.8	628.4	464.6	449.7
85°	151.9	148.9	214.4	253.2	354.4	470.6	417.0	363.4	318.7	211.5	196.6
87.5°	32.8	32.8	50.6	38.7	62.5	62.5	77.4	92.3	95.3	62.5	50.6
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)