

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: P456020

Luminaire Tested: **GALN-SA7B-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37669 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

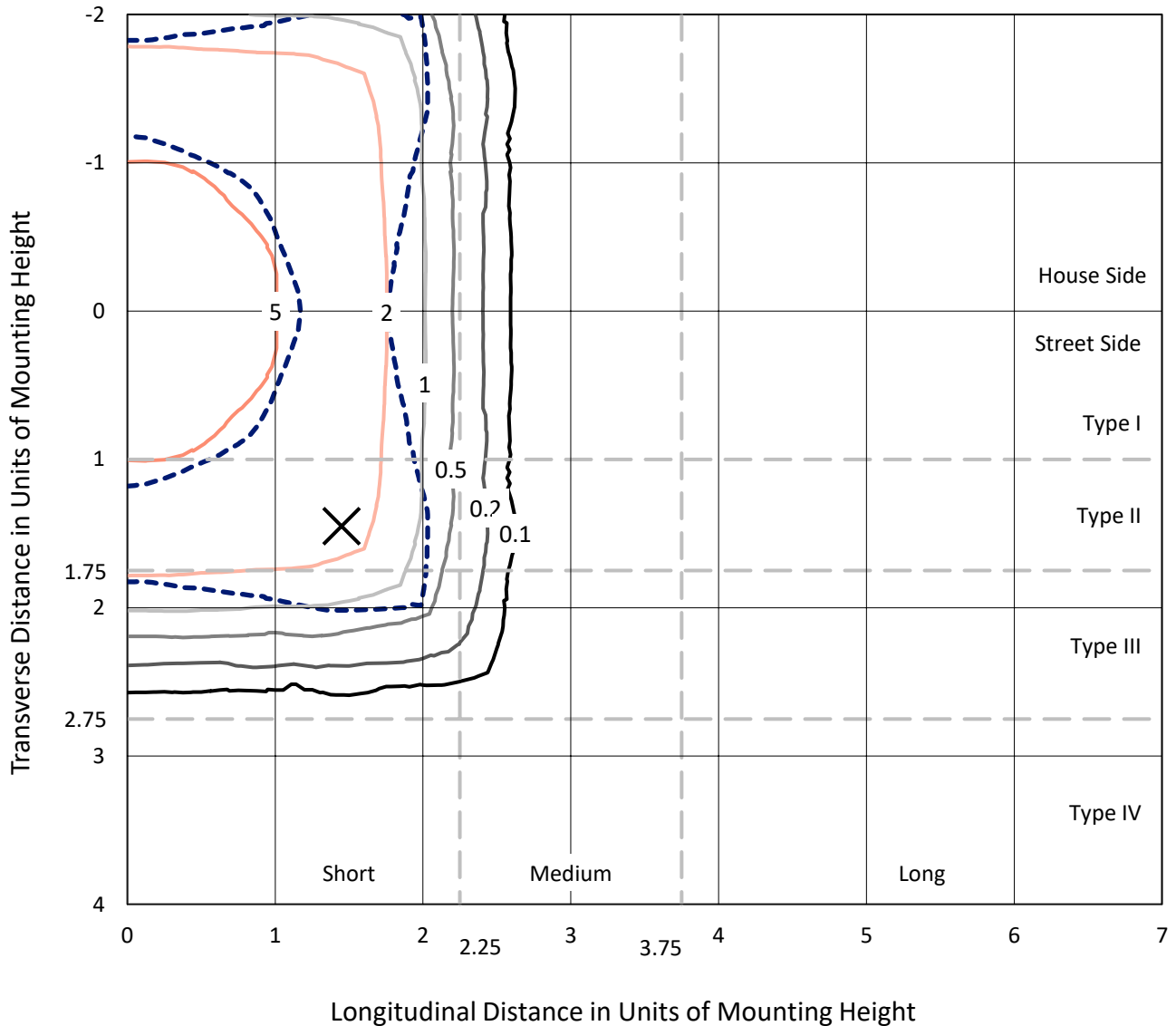
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

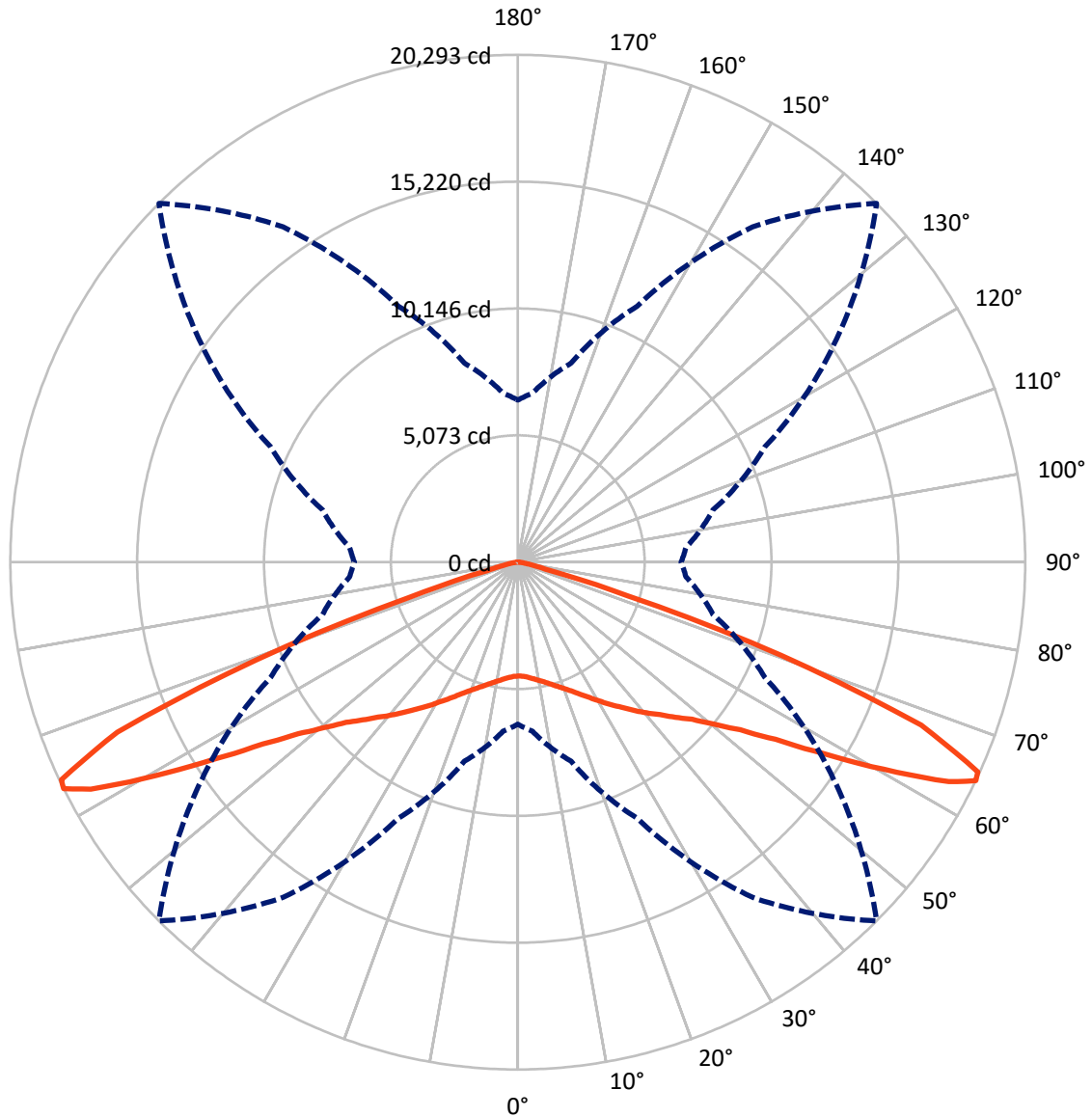
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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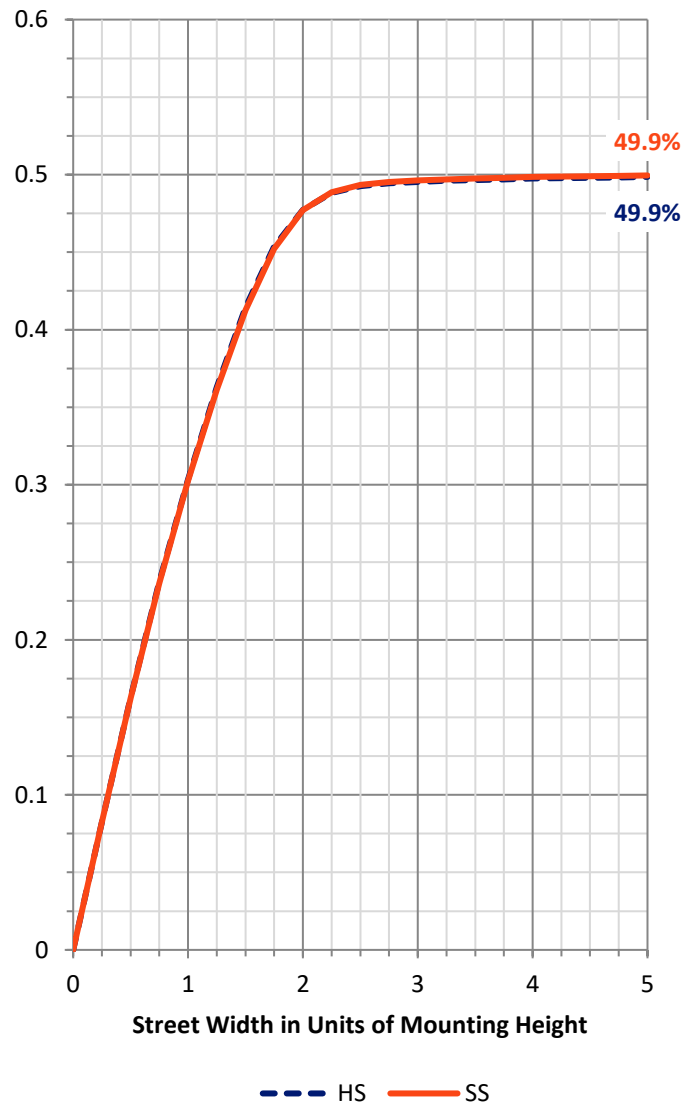
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18834.5	0.0	18834.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18834.5	0.0	18834.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37669.0	0.0	37669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	1.2
10°-20°	1442.8	3.8
20°-30°	2726.5	7.2
30°-40°	4515.4	12.0
40°-50°	7049.3	18.7
50°-60°	10898.0	28.9
60°-70°	9397.2	24.9
70°-80°	1064.9	2.8
80°-90°	127.6	0.3
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°	37669.0	100.0
0°-180°	37669.0	100.0



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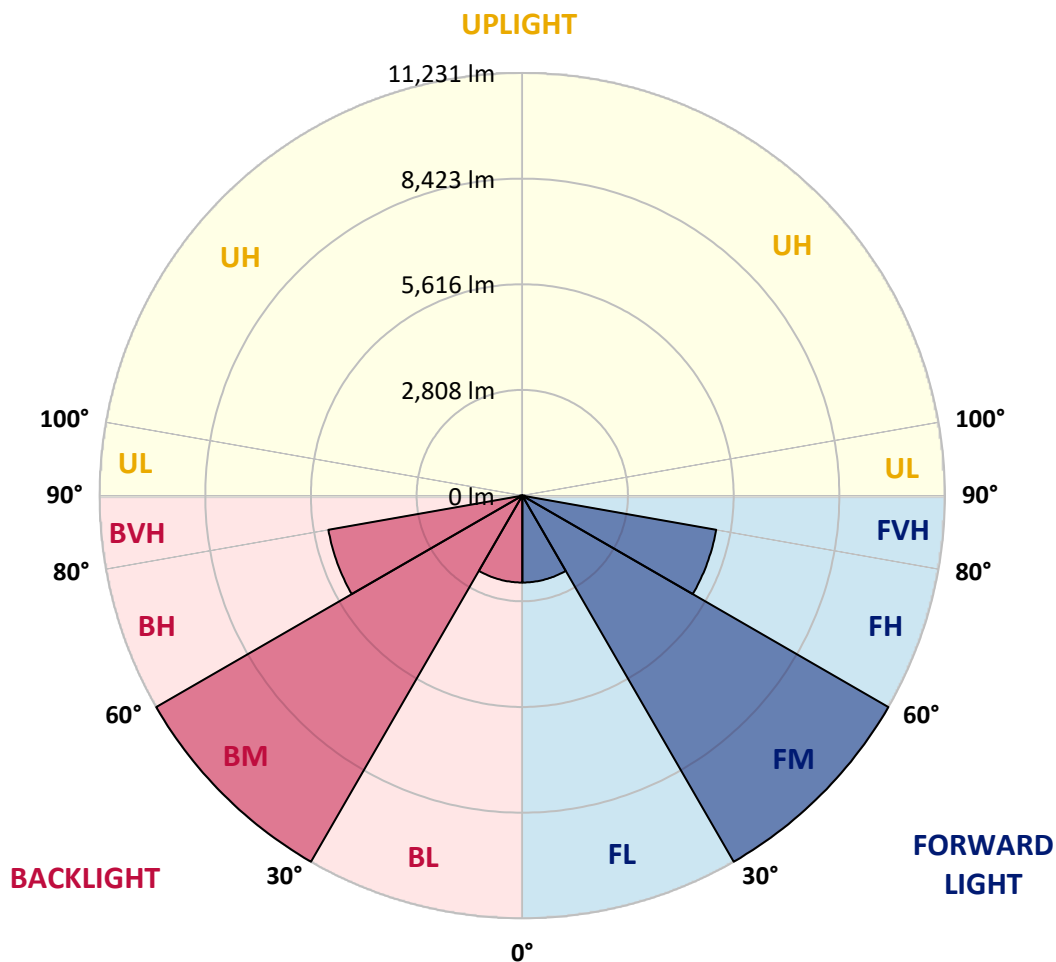
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2308.3	6.1			
FM	(30°-60°)	11231.3	29.8			
FH	(60°-80°)	5231.1	13.9			G3/7500
FVH	(80°-90°)	63.8	0.2			G1/100
BL	(0°-30°)	2308.3	6.1	B3/2500		
BM	(30°-60°)	11231.3	29.8	B5		
BH	(60°-80°)	5231.1	13.9	B5		G3/7500
BVH	(80°-90°)	63.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9	4552.9
2.5°	4570.9	4580.9	4572.9	4570.9	4568.9	4568.9	4568.9	4570.9	4578.9	4584.9	4580.9
5°	4628.7	4636.7	4632.7	4630.7	4628.7	4630.7	4626.8	4624.8	4630.7	4630.7	4628.7
7.5°	4700.6	4710.5	4706.6	4710.5	4712.5	4714.5	4704.6	4696.6	4694.6	4700.6	4696.6
10°	4798.3	4806.3	4808.3	4810.3	4814.3	4812.3	4800.3	4786.4	4784.4	4782.4	4780.4
12.5°	4908.1	4914.1	4916.0	4924.0	4930.0	4932.0	4918.0	4906.1	4886.1	4890.1	4882.1
15°	5031.8	5043.7	5041.7	5053.7	5069.7	5073.7	5059.7	5039.7	5021.8	5011.8	5005.8
17.5°	5183.4	5191.4	5187.4	5199.4	5219.3	5229.3	5217.3	5191.4	5173.4	5151.5	5139.5
20°	5363.0	5376.9	5380.9	5380.9	5398.9	5408.9	5390.9	5382.9	5355.0	5339.0	5329.0
22.5°	5566.5	5572.5	5584.4	5596.4	5614.4	5610.4	5604.4	5592.4	5566.5	5552.5	5536.5
25°	5795.9	5801.9	5831.8	5857.8	5863.7	5859.8	5851.8	5845.8	5821.8	5789.9	5778.0
27.5°	6063.3	6075.2	6115.1	6139.1	6139.1	6141.1	6125.1	6145.1	6093.2	6055.3	6051.3
30°	6398.4	6406.4	6440.3	6464.3	6452.3	6442.3	6438.3	6458.3	6402.4	6334.6	6318.6
32.5°	6729.6	6757.6	6787.5	6839.4	6797.5	6779.5	6775.5	6789.5	6725.7	6649.8	6627.9
35°	7084.8	7104.7	7160.6	7204.5	7166.6	7124.7	7142.6	7186.5	7110.7	7009.0	7005.0
37.5°	7477.8	7495.8	7567.6	7613.5	7585.6	7513.7	7543.7	7595.5	7519.7	7394.0	7368.1
40°	7886.8	7924.7	8014.5	8062.4	8016.5	7920.7	7976.6	8032.5	7964.6	7819.0	7761.1
42.5°	8345.7	8405.6	8535.3	8559.2	8471.4	8341.7	8439.5	8529.3	8481.4	8313.8	8291.8
45°	8882.4	8918.3	9077.9	9129.8	9008.1	8846.5	8968.2	9131.8	9095.9	8902.4	8860.5
47.5°	9482.9	9516.9	9682.5	9760.3	9606.6	9389.2	9608.6	9822.1	9800.2	9592.7	9572.7
50°	10193.2	10201.2	10430.6	10518.4	10364.8	10177.3	10372.8	10638.1	10550.4	10285.0	10281.0
52.5°	10971.3	10981.3	11270.6	11440.2	11354.4	11142.9	11374.3	11536.0	11312.5	10965.3	10939.4
55°	11645.7	11695.6	12090.6	12541.5	12659.2	12505.6	12575.4	12499.6	11949.0	11462.1	11386.3
57.5°	11921.0	12018.8	12619.3	13461.3	14227.4	14454.9	13916.2	13193.9	12202.3	11514.0	11440.2
60°	11248.7	11354.4	12286.1	13884.2	15839.5	16827.1	15312.8	13311.6	11625.7	10658.1	10542.4
62.5°	9008.1	9038.0	10408.7	12888.7	16779.2	19337.0	15901.3	12308.1	9947.8	8633.0	8587.1
64°	6482.2	6789.5	8242.0	11300.5	16368.2	20292.7	15562.2	10901.5	8080.4	6749.6	6534.1
65°	4848.2	4932.0	6643.8	9650.5	15644.0	20220.8	14903.8	9556.8	6691.7	5165.4	4926.0
67.5°	1831.5	1841.5	2452.0	4810.3	11136.9	17397.7	11374.3	5199.4	2819.1	2039.0	1965.2
70°	760.2	774.1	899.8	1618.1	4786.4	11170.8	5484.7	1875.4	1031.5	836.0	824.0
72.5°	556.6	564.6	602.5	718.3	1472.4	4586.8	1803.6	796.1	604.5	540.7	534.7
75°	436.9	440.9	468.9	528.7	686.3	1270.9	750.2	546.7	460.9	415.0	411.0
77.5°	333.2	343.2	363.1	403.0	460.9	602.5	496.8	409.0	355.1	317.2	311.2
80°	229.4	241.4	279.3	295.3	309.2	391.0	339.2	309.2	277.3	231.4	217.5
82.5°	141.7	149.6	187.5	201.5	195.5	219.5	217.5	221.5	197.5	143.7	133.7
85°	73.8	77.8	101.8	105.7	97.8	89.8	111.7	129.7	121.7	81.8	79.8
87.5°	16.0	18.0	21.9	20.0	21.9	21.9	27.9	41.9	43.9	27.9	25.9
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)