

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: P456049

Luminaire Tested: **GALN-SA7B-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456049
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-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 41362 lumens
Efficiency: N/A
Efficacy: 144.6 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

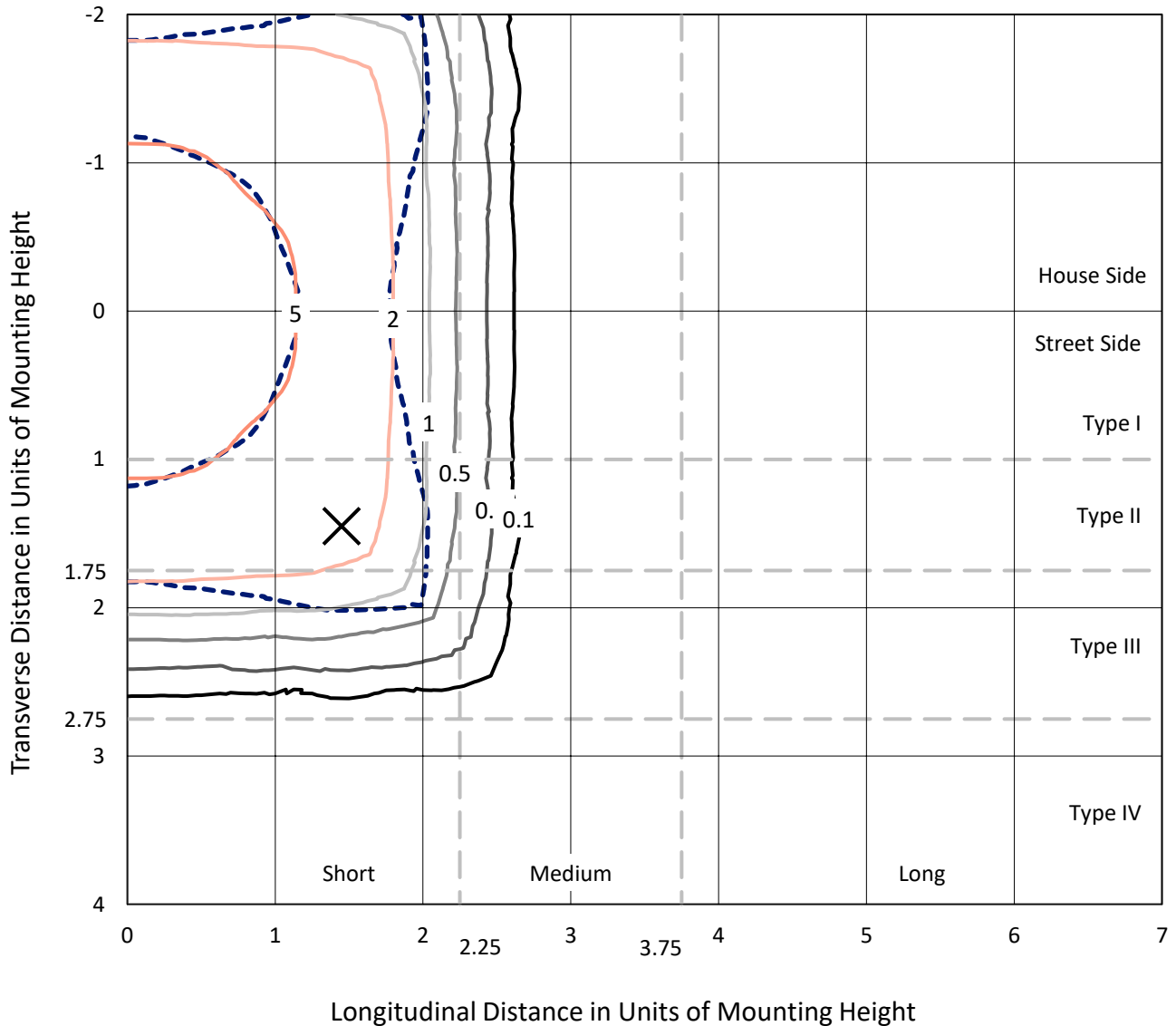
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

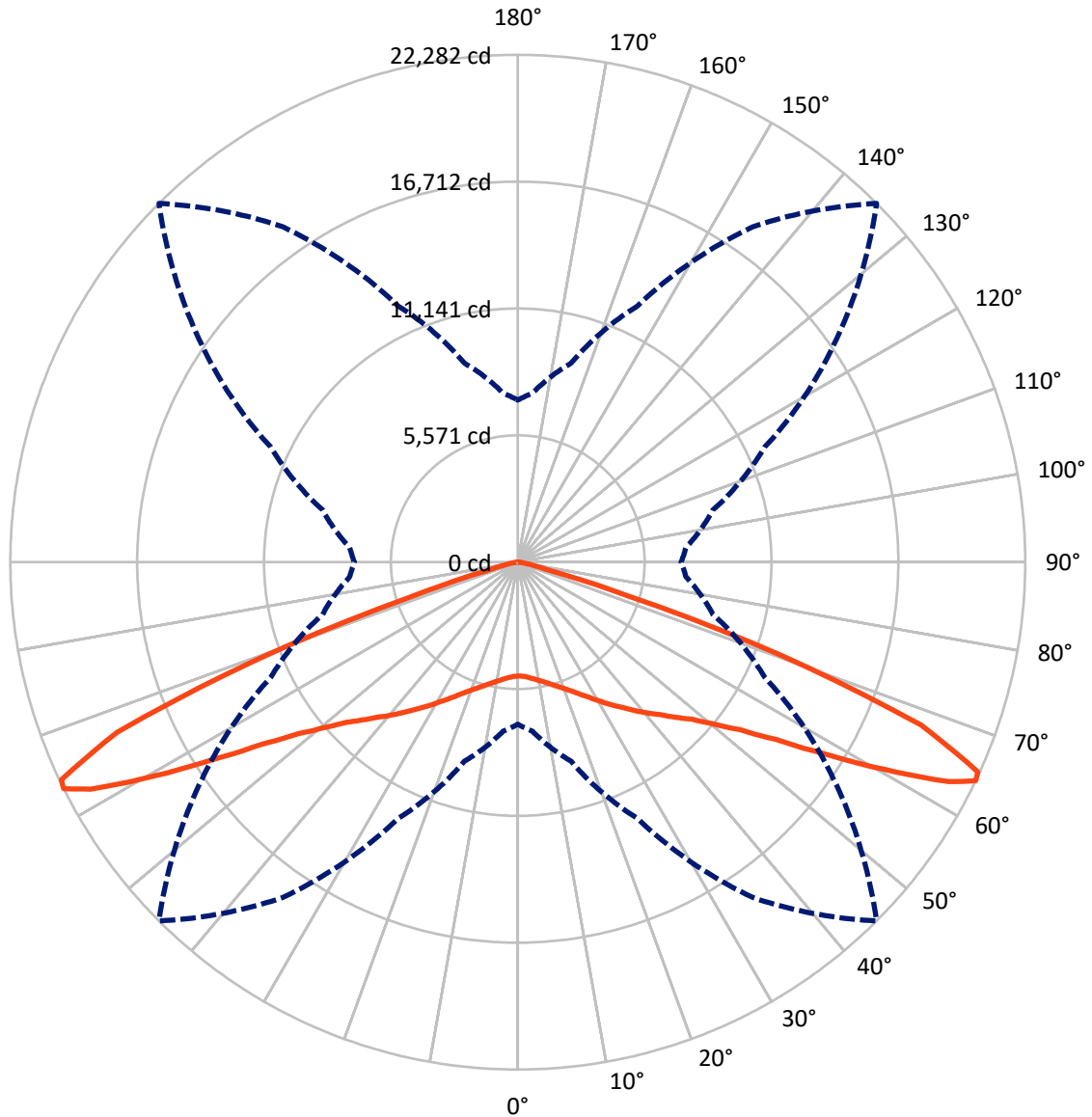
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	20681.0	0.0	20681.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20681.0	0.0	20681.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41362.0	0.0	41362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.2
10°-20°	1584.3	3.8
20°-30°	2993.8	7.2
30°-40°	4958.1	12.0
40°-50°	7740.4	18.7
50°-60°	11966.4	28.9
60°-70°	10318.5	24.9
70°-80°	1169.3	2.8
80°-90°	140.1	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°	41362.0	100.0
0°-180°	41362.0	100.0

Coefficient of Utilization



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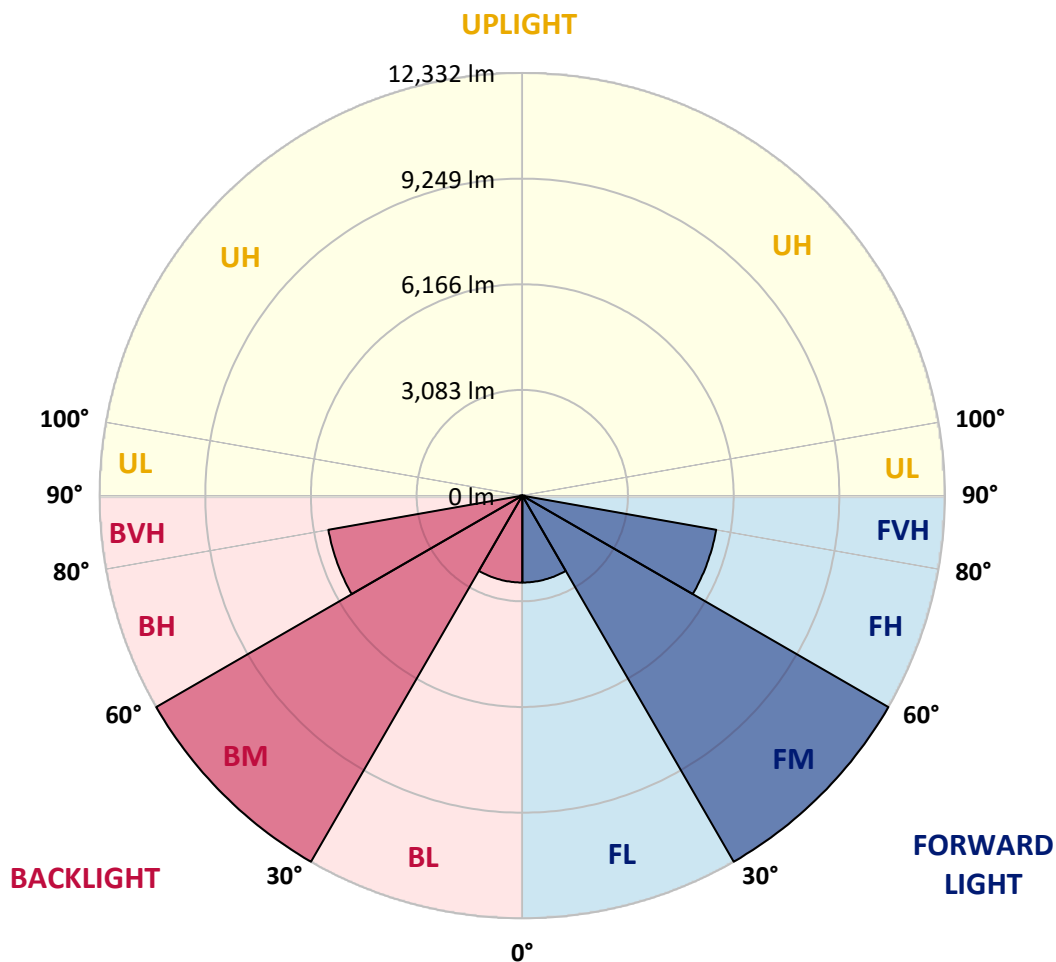
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2534.6	6.1			
FM	(30°-60°)	12332.4	29.8			
FH	(60°-80°)	5743.9	13.9			G3/7500
FVH	(80°-90°)	70.0	0.2			G1/100
BL	(0°-30°)	2534.6	6.1	B4/5000		
BM	(30°-60°)	12332.4	29.8	B5		
BH	(60°-80°)	5743.9	13.9	B5		G3/7500
BVH	(80°-90°)	70.0	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°	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3
2.5°	5019.0	5030.0	5021.2	5019.0	5016.8	5016.8	5016.8	5019.0	5027.8	5034.3	5030.0
5°	5082.5	5091.3	5086.9	5084.7	5082.5	5084.7	5080.4	5078.2	5084.7	5084.7	5082.5
7.5°	5161.4	5172.4	5168.0	5172.4	5174.6	5176.7	5165.8	5157.0	5154.8	5161.4	5157.0
10°	5268.8	5277.5	5279.7	5281.9	5286.3	5284.1	5270.9	5255.6	5253.4	5251.2	5249.0
12.5°	5389.2	5395.8	5398.0	5406.8	5413.3	5415.5	5400.2	5387.1	5365.1	5369.5	5360.8
15°	5525.1	5538.2	5536.0	5549.2	5566.7	5571.1	5555.7	5533.8	5514.1	5503.2	5496.6
17.5°	5691.6	5700.3	5696.0	5709.1	5731.0	5742.0	5728.8	5700.3	5680.6	5656.5	5643.4
20°	5888.7	5904.1	5908.5	5908.5	5928.2	5939.1	5919.4	5910.6	5880.0	5862.4	5851.5
22.5°	6112.2	6118.8	6131.9	6145.1	6164.8	6160.4	6153.8	6140.7	6112.2	6096.9	6079.3
25°	6364.1	6370.7	6403.6	6432.0	6438.6	6434.2	6425.5	6418.9	6392.6	6357.6	6344.4
27.5°	6657.7	6670.8	6714.7	6740.9	6740.9	6743.1	6725.6	6747.5	6690.6	6648.9	6644.5
30°	7025.7	7034.5	7071.7	7098.0	7084.9	7073.9	7069.6	7091.5	7030.1	6955.6	6938.1
32.5°	7389.4	7420.1	7452.9	7509.9	7463.9	7444.2	7439.8	7455.1	7385.0	7301.8	7277.7
35°	7779.4	7801.3	7862.6	7910.8	7869.2	7823.2	7842.9	7891.1	7807.8	7696.1	7691.7
37.5°	8210.9	8230.7	8309.5	8359.9	8329.2	8250.4	8283.2	8340.2	8256.9	8118.9	8090.4
40°	8660.0	8701.7	8800.2	8852.8	8802.4	8697.3	8758.6	8820.0	8745.5	8585.6	8522.0
42.5°	9163.9	9229.6	9372.0	9398.3	9301.9	9159.5	9266.9	9365.5	9312.9	9128.9	9104.8
45°	9753.2	9792.7	9967.9	10024.9	9891.2	9713.8	9847.4	10027.1	9987.6	9775.1	9729.1
47.5°	10412.6	10449.9	10631.7	10717.2	10548.5	10309.7	10550.7	10785.1	10761.0	10533.1	10511.2
50°	11192.5	11201.3	11453.2	11549.6	11381.0	11175.0	11389.7	11681.1	11584.7	11293.3	11288.9
52.5°	12046.9	12057.9	12375.6	12561.8	12467.6	12235.3	12489.5	12666.9	12421.6	12040.4	12011.9
55°	12787.4	12842.2	13275.9	13771.1	13900.3	13731.6	13808.3	13725.1	13120.4	12585.9	12502.6
57.5°	13089.7	13197.1	13856.5	14781.0	15622.2	15872.0	15280.5	14487.4	13398.6	12642.8	12561.8
60°	12351.5	12467.6	13490.6	15245.4	17392.4	18476.8	16814.0	14616.7	12765.5	11703.0	11575.9
62.5°	9891.2	9924.1	11429.1	14152.2	18424.2	21232.8	17460.3	13514.7	10923.1	9479.4	9429.0
64°	7117.7	7455.1	9050.0	12408.4	17972.9	22282.1	17087.9	11970.3	8872.5	7411.3	7174.7
65°	5323.5	5415.5	7295.2	10596.7	17177.7	22203.3	16364.9	10493.7	7347.8	5671.9	5409.0
67.5°	2011.1	2022.1	2692.4	5281.9	12228.8	19103.3	12489.5	5709.1	3095.5	2238.9	2157.9
70°	834.7	850.0	988.0	1776.7	5255.6	12266.0	6022.4	2059.3	1132.6	917.9	904.8
72.5°	611.2	620.0	661.6	788.7	1616.8	5036.5	1980.4	874.1	663.8	593.7	587.1
75°	479.8	484.2	514.8	580.5	753.6	1395.5	823.7	600.3	506.1	455.7	451.3
77.5°	365.9	376.8	398.7	442.5	506.1	661.6	545.5	449.1	390.0	348.3	341.8
80°	251.9	265.1	306.7	324.2	339.6	429.4	372.4	339.6	304.5	254.1	238.8
82.5°	155.5	164.3	205.9	221.3	214.7	241.0	238.8	243.2	216.9	157.7	146.8
85°	81.1	85.4	111.7	116.1	107.3	98.6	122.7	142.4	133.6	89.8	87.6
87.5°	17.5	19.7	24.1	21.9	24.1	24.1	30.7	46.0	48.2	30.7	28.5
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)