

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: P950227

Luminaire Tested: **GALN-SB4D-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42711 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): 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



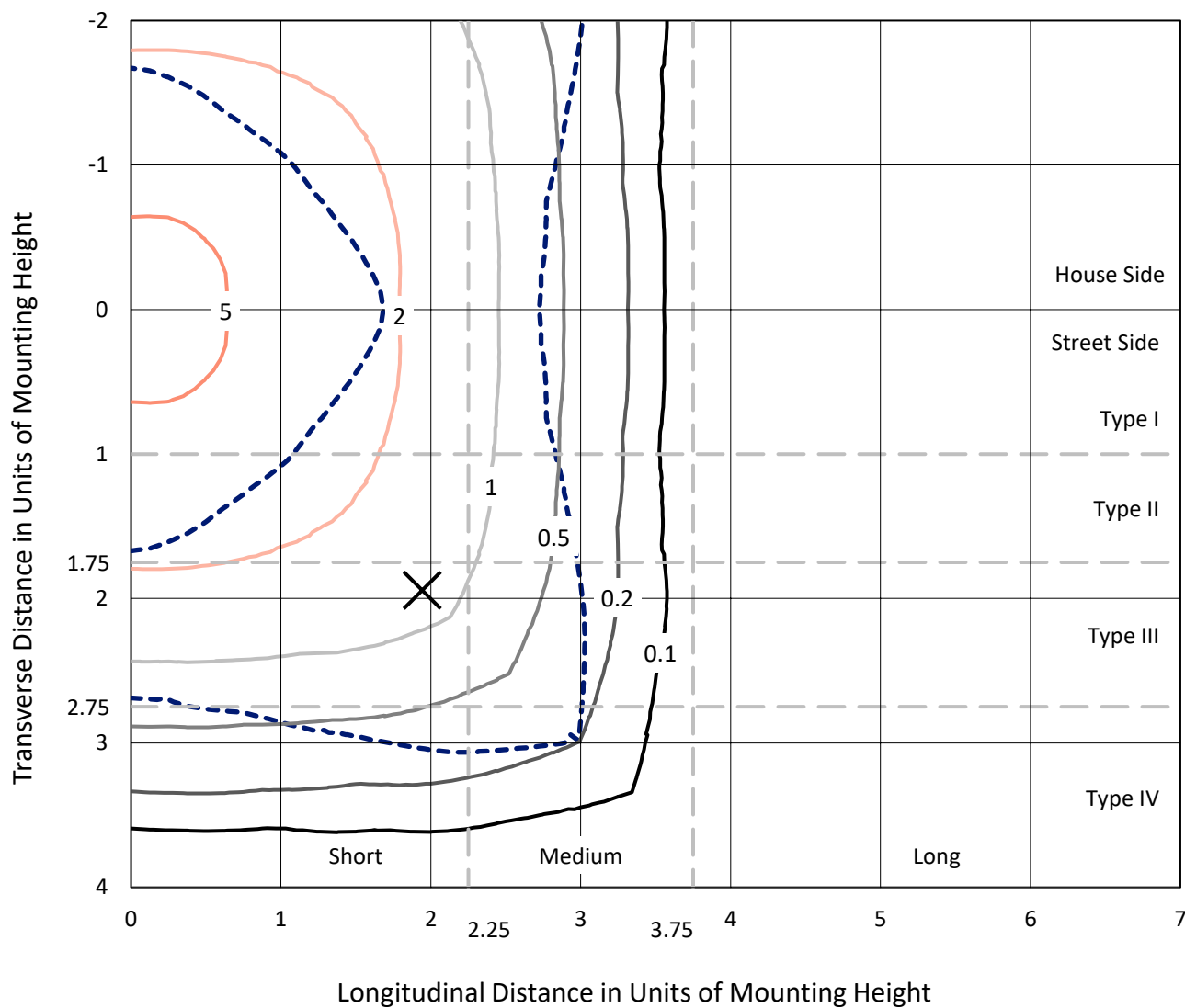
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

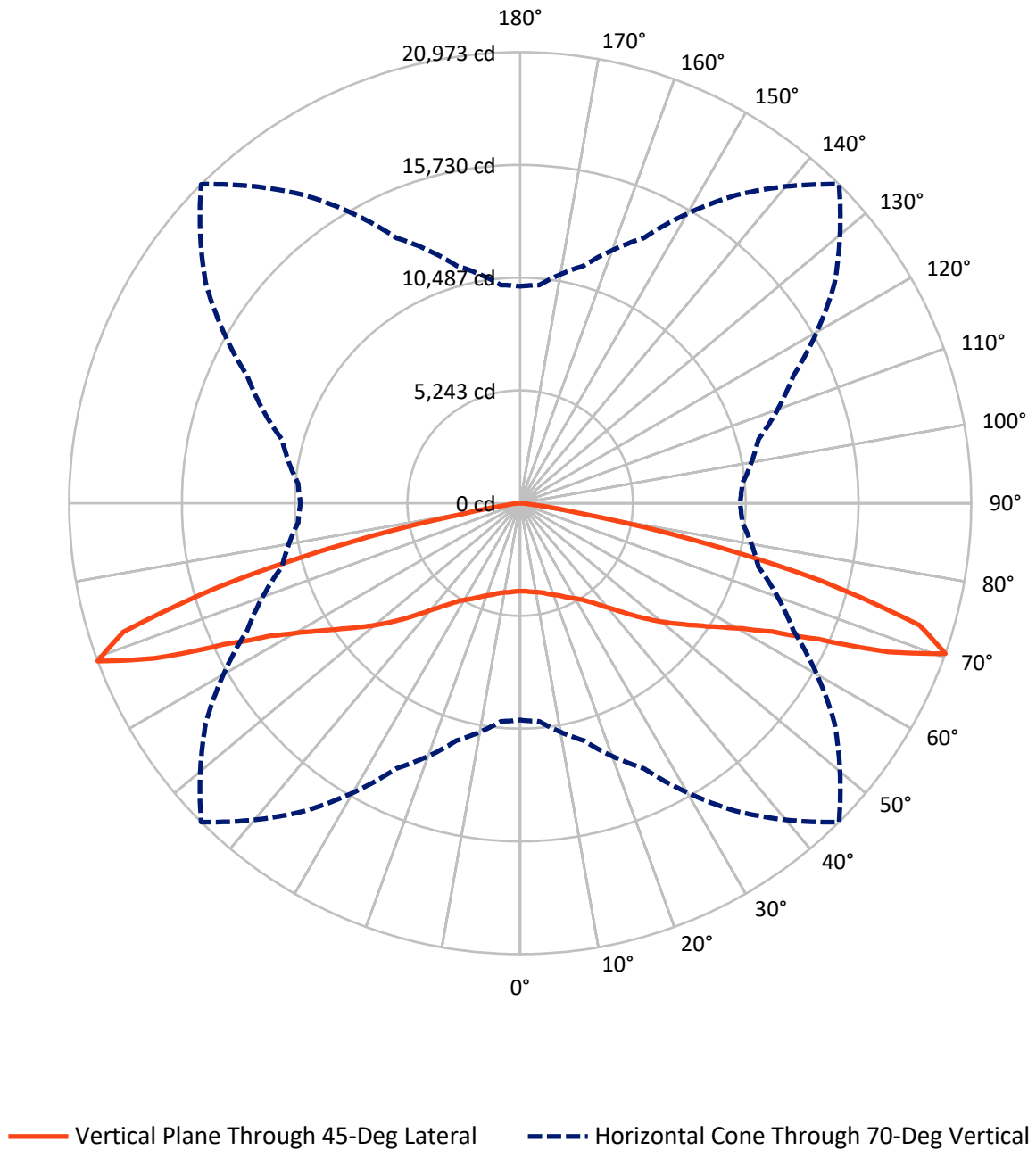


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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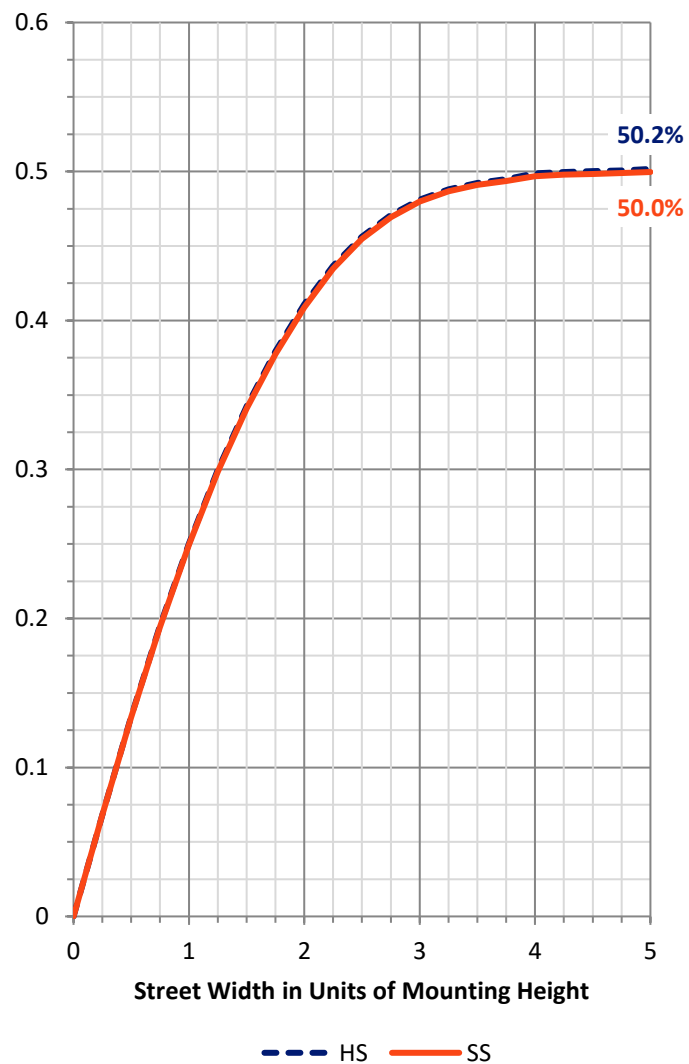
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21355.5	0.0	21355.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21355.5	0.0	21355.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42711.0	0.0	42711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.5	0.9
10°-20°	1232.5	2.9
20°-30°	2202.6	5.2
30°-40°	3570.4	8.4
40°-50°	5815.6	13.6
50°-60°	8866.9	20.8
60°-70°	13191.1	30.9
70°-80°	7189.6	16.8
80°-90°	244.8	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°	42711.0	100.0
0°-180°	42711.0	100.0

Coefficient of Utilization



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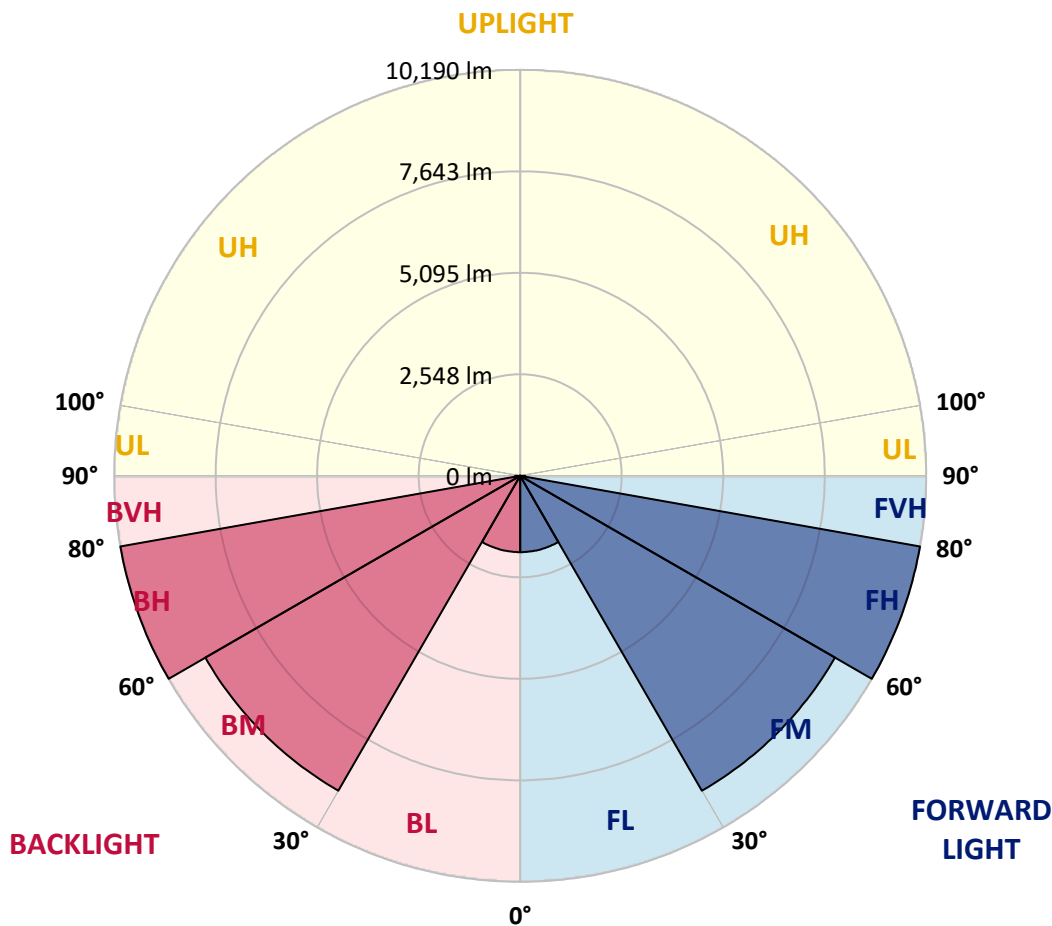
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.3	4.5			
FM	(30°-60°)	9126.5	21.4			
FH	(60°-80°)	10190.3	23.9			G4/12000
FVH	(80°-90°)	122.4	0.3			G2/225
BL	(0°-30°)	1916.3	4.5	B3/2500		
BM	(30°-60°)	9126.5	21.4	B5		
BH	(60°-80°)	10190.3	23.9	B5		G4/12000
BVH	(80°-90°)	122.4	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°	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3	4091.3
2.5°	4110.6	4114.9	4106.3	4102.0	4097.7	4091.3	4093.4	4104.1	4112.7	4110.6	4112.7
5°	4144.9	4149.2	4142.7	4140.6	4132.0	4129.9	4129.9	4140.6	4147.0	4142.7	4144.9
7.5°	4183.5	4189.9	4179.2	4177.0	4172.8	4168.5	4166.3	4177.0	4183.5	4183.5	4183.5
10°	4219.9	4226.4	4217.8	4211.4	4207.1	4207.1	4202.8	4211.4	4222.1	4219.9	4219.9
12.5°	4258.5	4262.8	4254.2	4249.9	4249.9	4256.4	4249.9	4254.2	4262.8	4258.5	4256.4
15°	4305.7	4307.8	4305.7	4312.1	4322.9	4344.3	4325.0	4320.7	4325.0	4314.3	4314.3
17.5°	4370.0	4374.3	4382.9	4397.9	4412.9	4451.5	4417.2	4406.5	4406.5	4385.0	4385.0
20°	4449.4	4455.8	4468.7	4494.4	4513.7	4550.1	4515.8	4500.8	4494.4	4466.5	4466.5
22.5°	4533.0	4543.7	4563.0	4597.3	4631.6	4665.9	4631.6	4605.9	4586.6	4550.1	4548.0
25°	4629.5	4642.3	4672.4	4728.1	4775.3	4824.6	4783.9	4732.4	4693.8	4642.3	4640.2
27.5°	4766.7	4781.7	4818.2	4886.8	4946.8	4989.7	4951.1	4884.7	4831.0	4768.9	4766.7
30°	4959.7	4974.7	5017.6	5090.5	5131.2	5159.1	5133.4	5081.9	5017.6	4946.8	4946.8
32.5°	5208.4	5227.7	5274.9	5343.5	5352.1	5356.4	5347.8	5322.1	5274.9	5189.1	5191.3
35°	5523.6	5545.1	5598.7	5654.4	5645.9	5654.4	5641.6	5633.0	5598.7	5500.1	5500.1
37.5°	5909.6	5935.3	5991.1	6034.0	6012.5	6001.8	6004.0	6006.1	5986.8	5877.5	5877.5
40°	6357.8	6392.1	6432.8	6477.8	6441.4	6409.2	6430.7	6447.8	6430.7	6319.2	6319.2
42.5°	6818.8	6868.1	6911.0	6975.3	6945.3	6904.6	6934.6	6953.9	6917.4	6797.3	6805.9
45°	7331.3	7378.4	7434.2	7530.7	7509.2	7466.4	7509.2	7513.5	7451.3	7309.8	7324.8
47.5°	7860.9	7910.2	7993.8	8122.5	8113.9	8066.8	8122.5	8092.5	8013.1	7843.7	7833.0
50°	8362.7	8431.3	8559.9	8740.1	8757.2	8699.3	8774.4	8716.5	8583.5	8371.2	8367.0
52.5°	8834.4	8907.3	9111.0	9355.5	9417.6	9342.6	9443.4	9342.6	9143.2	8870.9	8845.1
55°	9329.7	9411.2	9653.5	9973.0	10097.4	10041.6	10136.0	9983.7	9700.7	9370.5	9325.4
57.5°	9913.0	9962.3	10251.8	10631.3	10841.4	10854.3	10897.2	10639.9	10296.8	9921.5	9870.1
60°	10545.5	10614.1	10929.4	11383.9	11716.3	11823.5	11778.5	11396.8	10998.0	10567.0	10498.4
62.5°	11356.1	11431.1	11808.5	12353.2	12878.5	13144.4	12968.6	12415.3	11922.2	11405.4	11315.3
65°	12027.2	12110.9	12792.7	13764.1	14720.4	15254.4	14812.6	13794.1	12906.4	12177.3	12057.2
67.5°	11540.5	11643.4	12713.4	14497.4	16875.4	18468.6	16956.9	14716.1	12977.1	11988.6	11840.7
70°	10086.7	10183.1	11431.1	13611.8	17482.3	20973.1	17846.8	14012.8	11471.9	10365.4	10217.5
72.5°	6696.6	7007.5	8270.5	10886.5	15610.3	19407.8	15764.7	10665.6	7672.2	6681.6	6465.0
75°	2221.5	2470.2	3332.2	5643.7	10455.5	14514.6	9953.7	4994.0	2639.6	1899.8	1796.9
77.5°	559.7	645.4	889.9	1614.6	4170.6	8264.0	3754.6	1318.7	718.3	501.8	448.2
80°	272.3	300.2	428.9	538.2	1044.3	2626.7	979.9	506.0	338.8	261.6	240.2
82.5°	150.1	152.2	242.3	304.5	388.1	679.7	403.1	295.9	195.1	158.7	158.7
85°	92.2	90.1	128.7	163.0	163.0	242.3	193.0	163.0	111.5	98.6	102.9
87.5°	36.5	36.5	47.2	51.5	45.0	62.2	49.3	53.6	42.9	40.7	42.9
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)