

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: P454628

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454628
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-SA5D-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36821 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

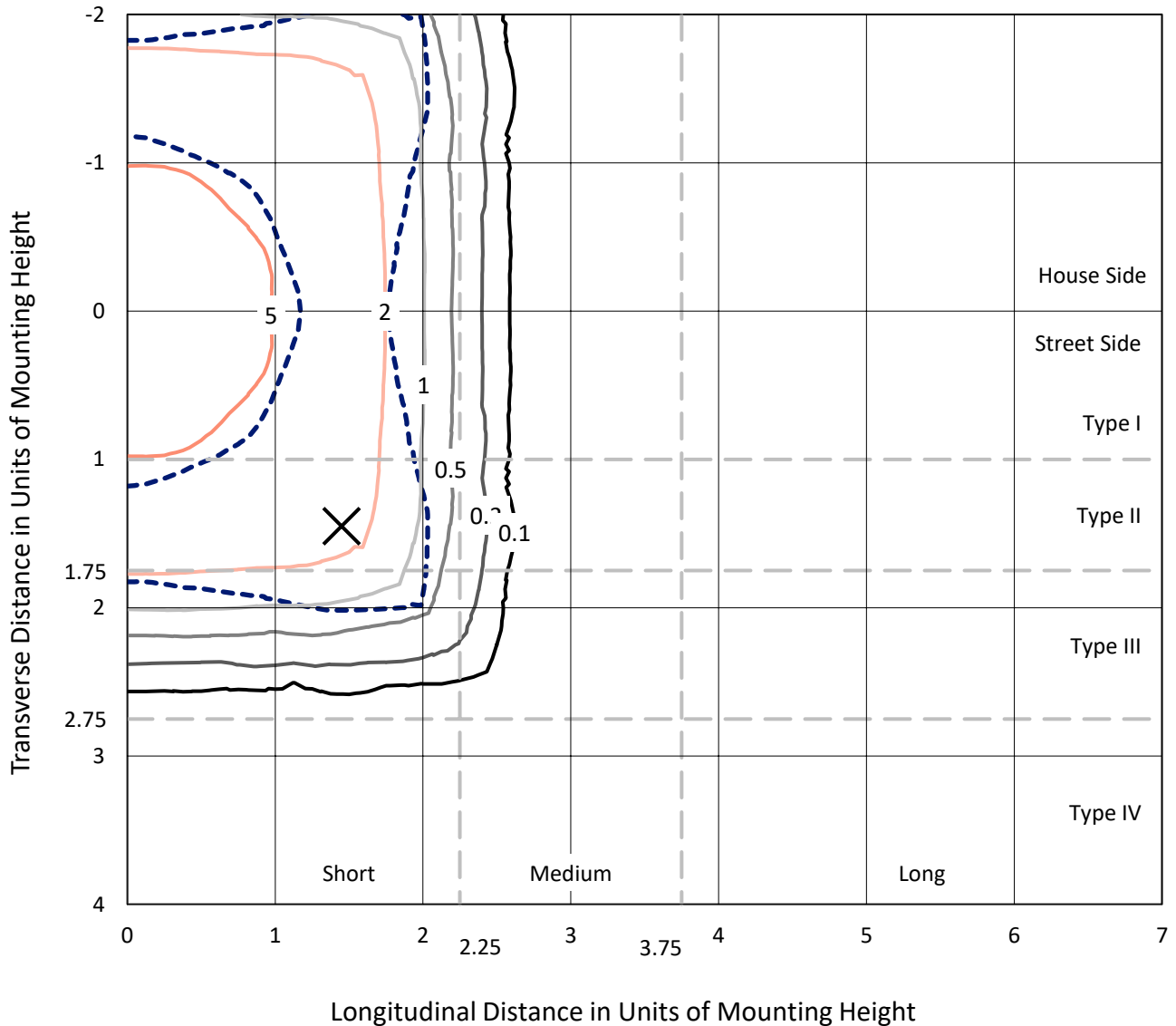
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

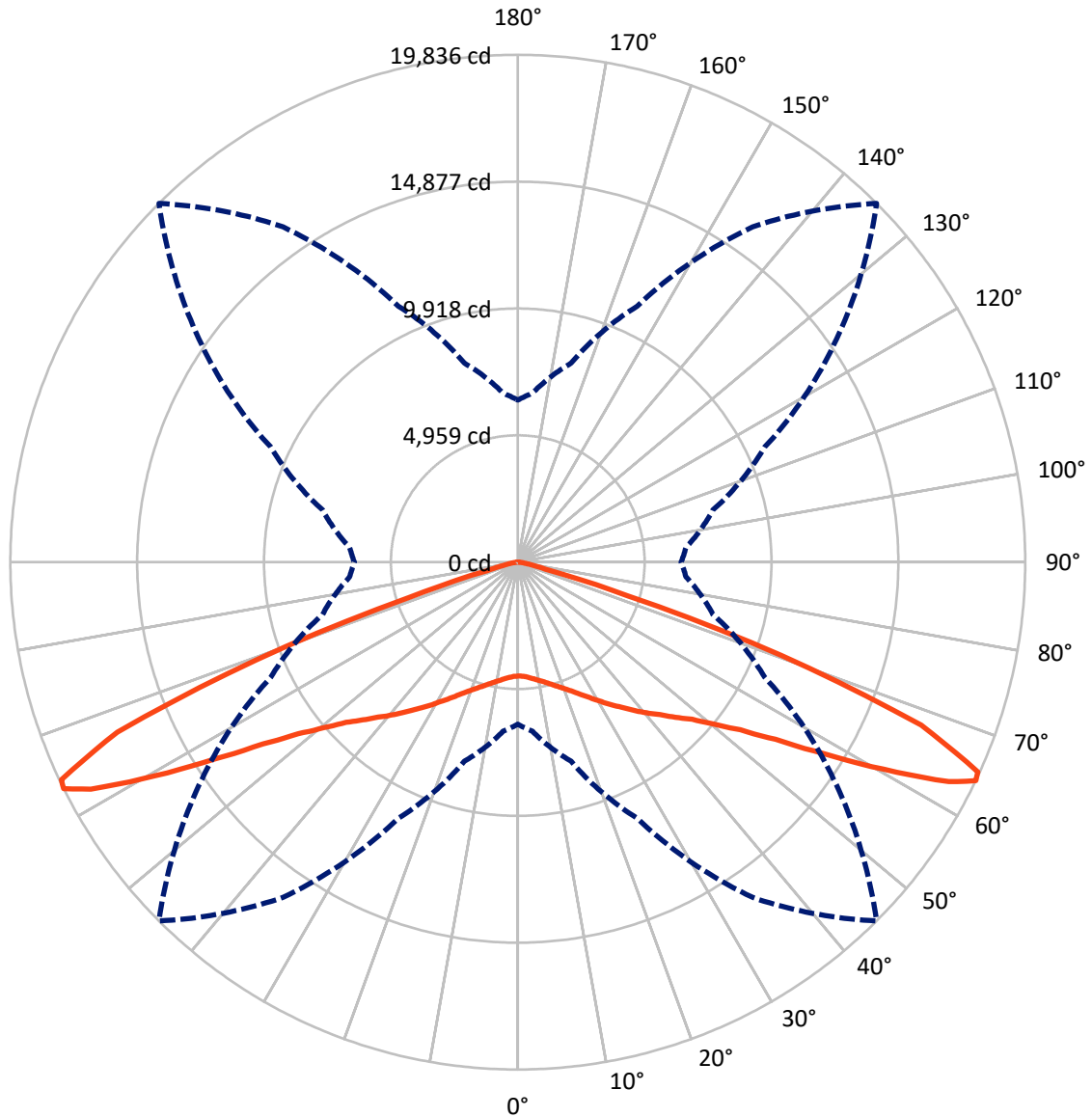
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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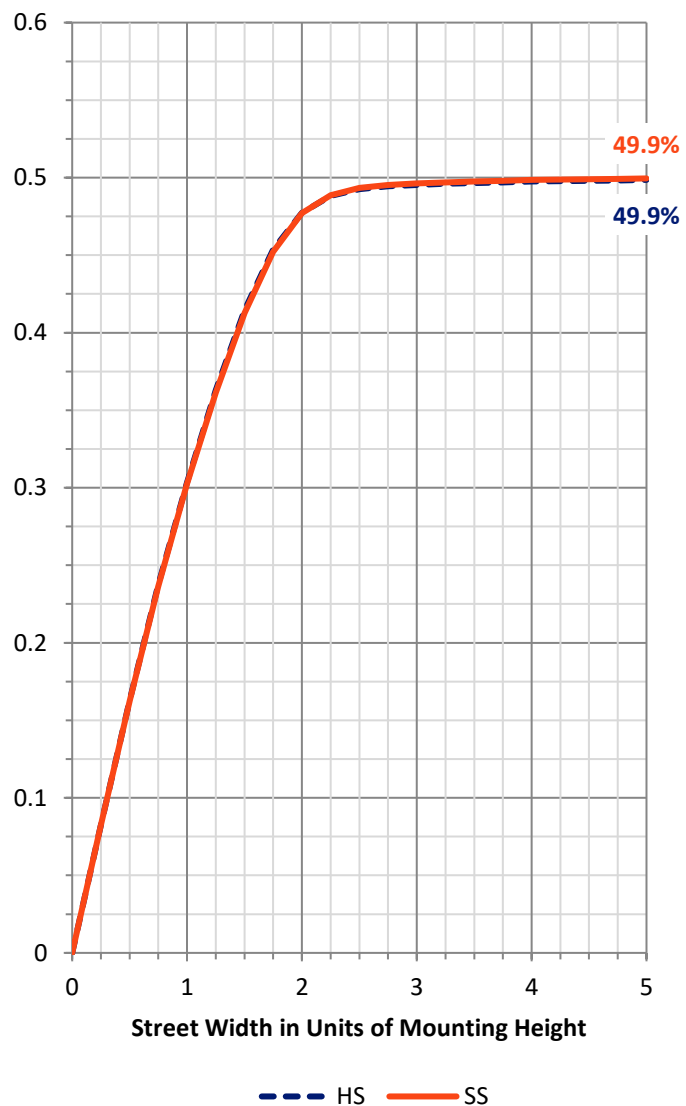
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18410.5	0.0	18410.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18410.5	0.0	18410.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36821.0	0.0	36821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.2	1.2
10°-20°	1410.3	3.8
20°-30°	2665.1	7.2
30°-40°	4413.7	12.0
40°-50°	6890.6	18.7
50°-60°	10652.7	28.9
60°-70°	9185.7	24.9
70°-80°	1041.0	2.8
80°-90°	124.7	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°	36821.0	100.0
0°-180°	36821.0	100.0

Coefficient of Utilization



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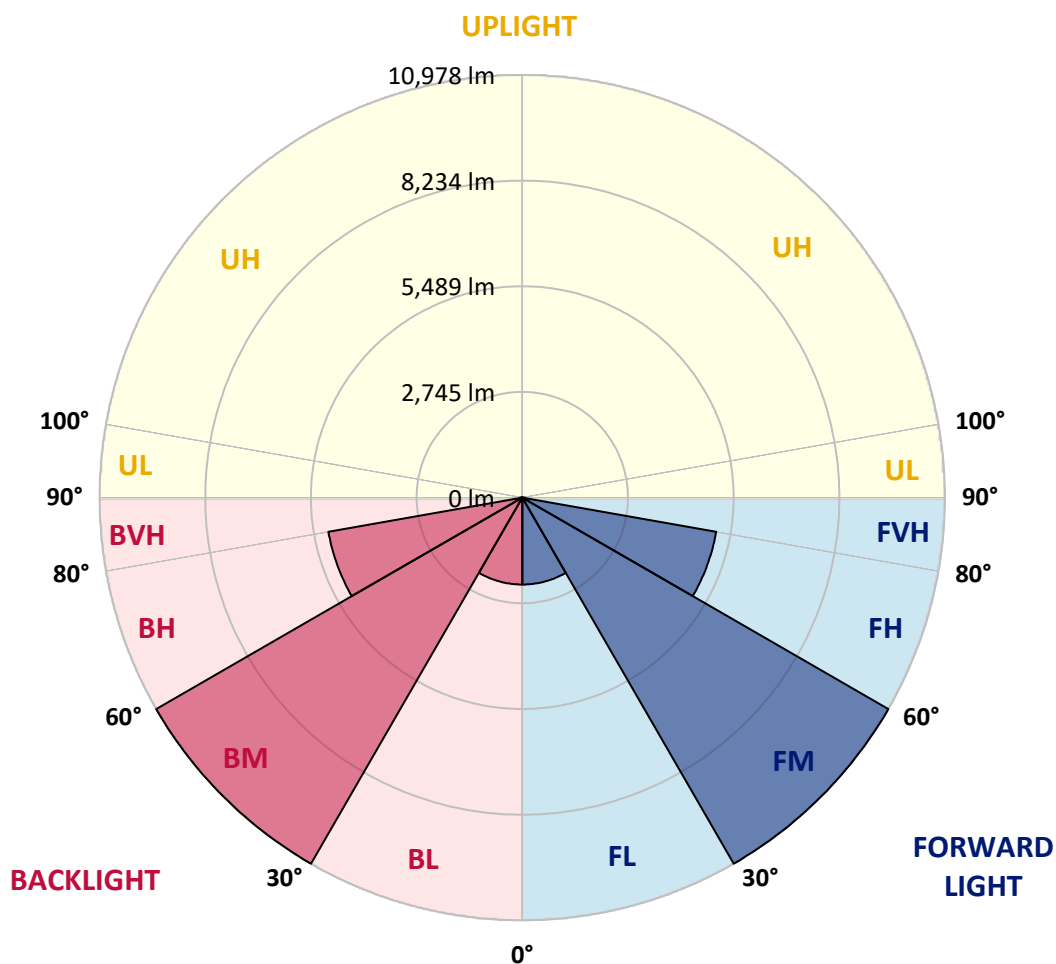
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2256.3	6.1			
FM	(30°-60°)	10978.5	29.8			
FH	(60°-80°)	5113.3	13.9			G3/7500
FVH	(80°-90°)	62.4	0.2			G1/100
BL	(0°-30°)	2256.3	6.1	B3/2500		
BM	(30°-60°)	10978.5	29.8	B5		
BH	(60°-80°)	5113.3	13.9	B5		G3/7500
BVH	(80°-90°)	62.4	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°	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4	4450.4
2.5°	4468.0	4477.7	4469.9	4468.0	4466.0	4466.0	4466.0	4468.0	4475.8	4481.6	4477.7
5°	4524.5	4532.3	4528.4	4526.5	4524.5	4526.5	4522.6	4520.6	4526.5	4526.5	4524.5
7.5°	4594.8	4604.5	4600.6	4604.5	4606.5	4608.4	4598.7	4590.9	4588.9	4594.8	4590.9
10°	4690.3	4698.1	4700.1	4702.0	4705.9	4704.0	4692.3	4678.6	4676.7	4674.7	4672.8
12.5°	4797.6	4803.4	4805.4	4813.2	4819.0	4821.0	4807.3	4795.6	4776.1	4780.0	4772.2
15°	4918.5	4930.2	4928.2	4939.9	4955.5	4959.4	4945.8	4926.3	4908.7	4899.0	4893.1
17.5°	5066.7	5074.5	5070.6	5082.3	5101.8	5111.6	5099.9	5074.5	5057.0	5035.5	5023.8
20°	5242.2	5255.9	5259.8	5259.8	5277.3	5287.1	5269.5	5261.7	5234.4	5218.8	5209.1
22.5°	5441.2	5447.0	5458.7	5470.4	5488.0	5484.1	5478.2	5466.5	5441.2	5427.5	5411.9
25°	5665.4	5671.3	5700.5	5725.9	5731.7	5727.8	5720.0	5714.2	5690.8	5659.6	5647.9
27.5°	5926.8	5938.5	5977.5	6000.9	6000.9	6002.8	5987.2	6006.7	5956.0	5919.0	5915.1
30°	6254.4	6262.2	6295.4	6318.8	6307.1	6297.3	6293.4	6312.9	6258.3	6192.0	6176.4
32.5°	6578.1	6605.4	6634.7	6685.4	6644.5	6626.9	6623.0	6636.7	6574.2	6500.1	6478.7
35°	6925.3	6944.8	6999.4	7042.3	7005.2	6964.3	6981.8	7024.7	6950.6	6851.2	6847.3
37.5°	7309.5	7327.0	7397.2	7442.1	7414.8	7344.6	7373.8	7424.5	7350.4	7227.6	7202.2
40°	7709.3	7746.3	7834.1	7880.9	7836.0	7742.4	7797.0	7851.6	7785.3	7643.0	7586.4
42.5°	8157.8	8216.3	8343.1	8366.5	8280.7	8153.9	8249.5	8337.3	8290.5	8126.6	8105.2
45°	8682.4	8717.6	8873.6	8924.3	8805.3	8647.3	8766.3	8926.2	8891.1	8702.0	8661.0
47.5°	9269.5	9302.6	9464.5	9540.6	9390.4	9177.8	9392.3	9601.0	9579.6	9376.7	9357.2
50°	9963.8	9971.6	10195.8	10281.6	10131.5	9948.2	10139.3	10398.7	10312.8	10053.5	10049.6
52.5°	10724.3	10734.1	11016.9	11182.6	11098.8	10892.1	11118.3	11276.3	11057.8	10718.5	10693.1
55°	11383.5	11432.3	11818.4	12259.2	12374.2	12224.1	12292.3	12218.2	11680.0	11204.1	11130.0
57.5°	11652.7	11748.2	12335.2	13158.2	13907.1	14129.5	13602.9	12896.9	11927.6	11254.8	11182.6
60°	10995.4	11098.8	12009.5	13571.7	15482.9	16448.3	14968.1	13012.0	11364.0	10418.2	10305.0
62.5°	8805.3	8834.6	10174.4	12598.5	16401.5	18901.7	15543.4	12031.0	9723.9	8438.7	8393.8
64°	6336.3	6636.7	8056.4	11046.1	15999.7	19835.8	15211.8	10656.1	7898.5	6597.6	6387.0
65°	4739.1	4821.0	6494.3	9433.3	15291.8	19765.6	14568.3	9341.6	6541.1	5049.2	4815.1
67.5°	1790.3	1800.1	2396.8	4702.0	10886.2	17006.1	11118.3	5082.3	2755.7	1993.1	1921.0
70°	743.0	756.7	879.6	1581.6	4678.6	10919.4	5361.2	1833.2	1008.3	817.1	805.4
72.5°	544.1	551.9	589.0	702.1	1439.3	4483.6	1763.0	778.1	590.9	528.5	522.7
75°	427.1	431.0	458.3	516.8	670.9	1242.3	733.3	534.4	450.5	405.6	401.7
77.5°	325.7	335.4	354.9	393.9	450.5	589.0	485.6	399.8	347.1	310.1	304.2
80°	224.3	236.0	273.0	288.6	302.3	382.2	331.5	302.3	271.1	226.2	212.6
82.5°	138.5	146.3	183.3	197.0	191.1	214.5	212.6	216.5	193.1	140.4	130.7
85°	72.2	76.1	99.5	103.4	95.6	87.8	109.2	126.8	119.0	80.0	78.0
87.5°	15.6	17.6	21.5	19.5	21.5	21.5	27.3	41.0	42.9	27.3	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)