

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: P453700

Luminaire Tested: **GALN-SA4D-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453700
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-SA4D-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 29086 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

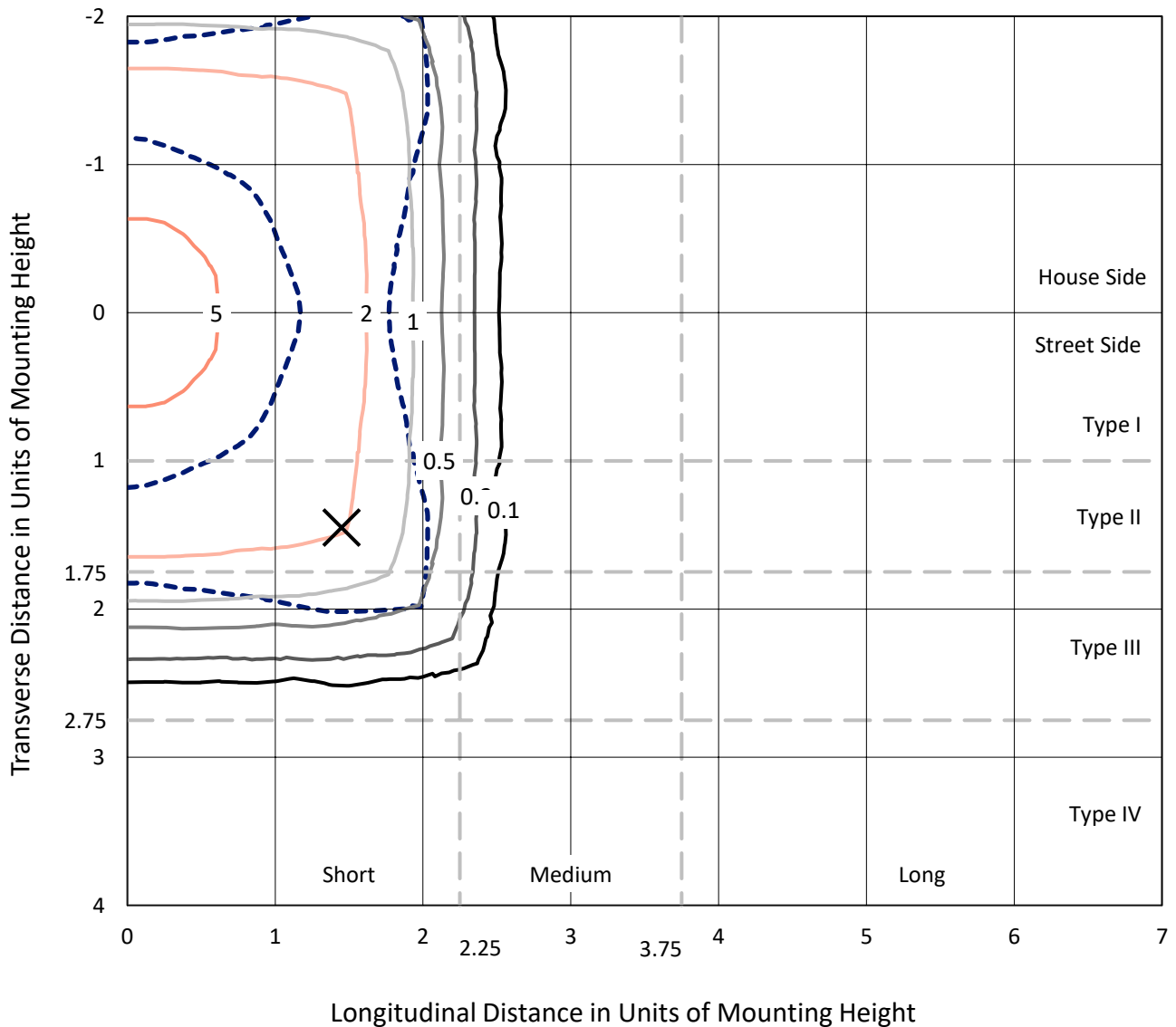
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

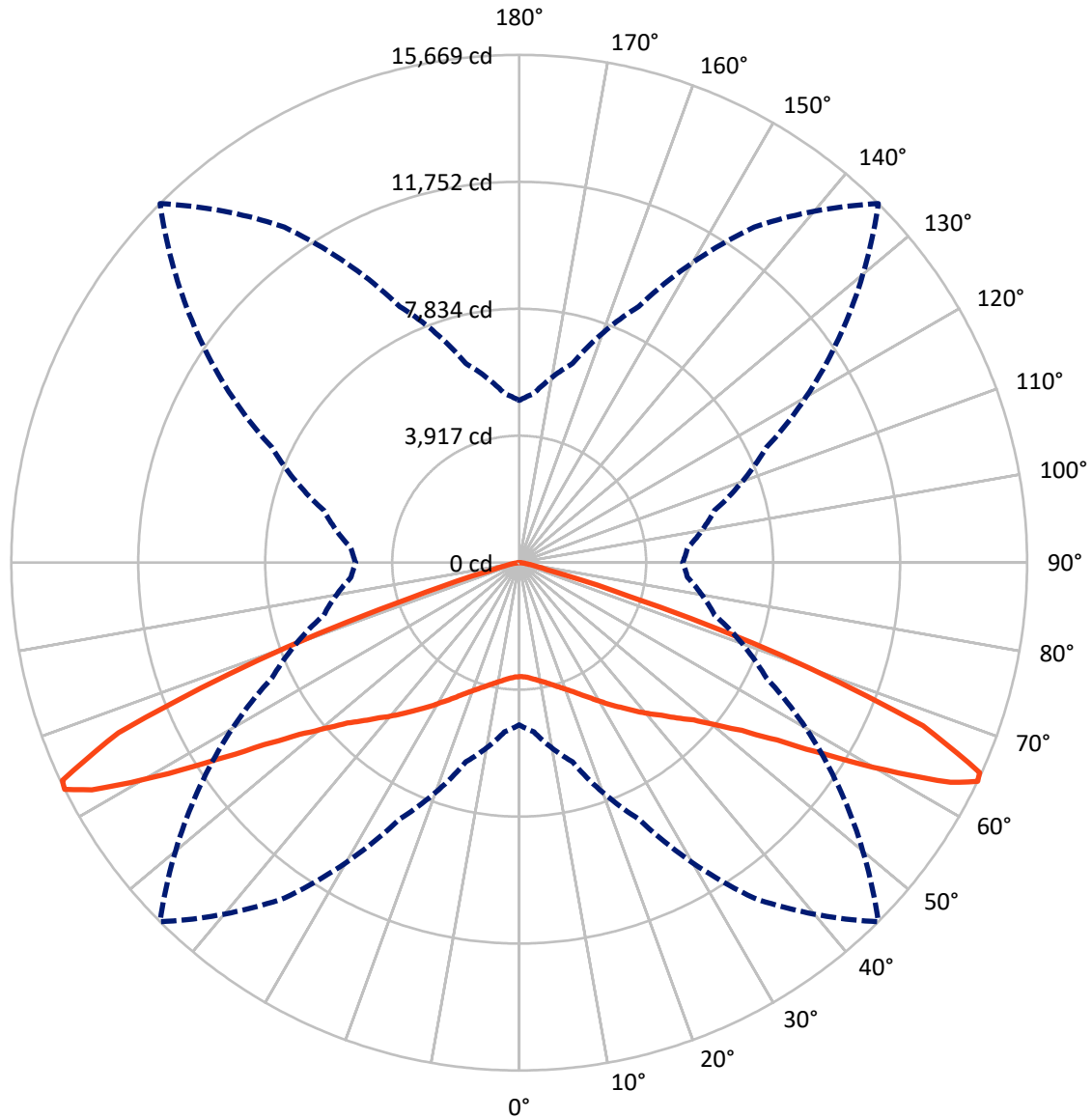
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA4D-730-U-5NQ

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	14543.0	0.0	14543.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14543.0	0.0	14543.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29086.0	0.0	29086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	1.2
10°-20°	1114.1	3.8
20°-30°	2105.3	7.2
30°-40°	3486.5	12.0
40°-50°	5443.1	18.7
50°-60°	8414.9	28.9
60°-70°	7256.0	24.9
70°-80°	822.3	2.8
80°-90°	98.5	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°	29086.0	100.0
0°-180°	29086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453700

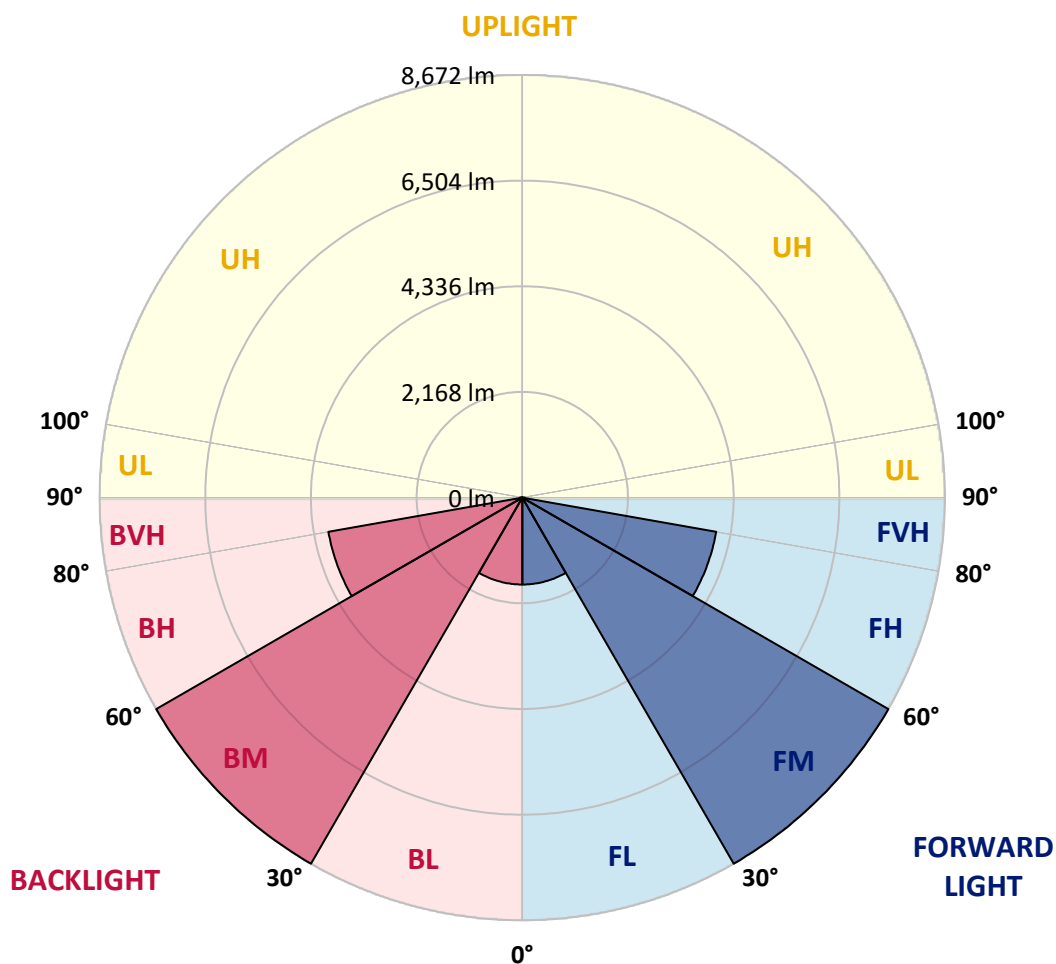
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1782.3	6.1			
FM	(30°-60°)	8672.2	29.8			
FH	(60°-80°)	4039.2	13.9			G2/5000
FVH	(80°-90°)	49.3	0.2			G1/100
BL	(0°-30°)	1782.3	6.1	B3/2500		
BM	(30°-60°)	8672.2	29.8	B5		
BH	(60°-80°)	4039.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	49.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5	3515.5
2.5°	3529.4	3537.1	3530.9	3529.4	3527.9	3527.9	3527.9	3529.4	3535.6	3540.2	3537.1
5°	3574.1	3580.2	3577.2	3575.6	3574.1	3575.6	3572.5	3571.0	3575.6	3575.6	3574.1
7.5°	3629.5	3637.2	3634.2	3637.2	3638.8	3640.3	3632.6	3626.5	3624.9	3629.5	3626.5
10°	3705.0	3711.2	3712.7	3714.3	3717.3	3715.8	3706.6	3695.8	3694.2	3692.7	3691.2
12.5°	3789.7	3794.4	3795.9	3802.1	3806.7	3808.2	3797.5	3788.2	3772.8	3775.9	3769.7
15°	3885.3	3894.5	3893.0	3902.2	3914.5	3917.6	3906.8	3891.4	3877.6	3869.9	3865.2
17.5°	4002.3	4008.5	4005.4	4014.7	4030.1	4037.8	4028.5	4008.5	3994.6	3977.7	3968.5
20°	4141.0	4151.8	4154.9	4154.9	4168.7	4176.4	4162.6	4156.4	4134.8	4122.5	4114.8
22.5°	4298.1	4302.8	4312.0	4321.2	4335.1	4332.0	4327.4	4318.2	4298.1	4287.3	4275.0
25°	4475.3	4479.9	4503.0	4523.1	4527.7	4524.6	4518.4	4513.8	4495.3	4470.7	4461.4
27.5°	4681.7	4691.0	4721.8	4740.3	4740.3	4741.8	4729.5	4744.9	4704.8	4675.6	4672.5
30°	4940.5	4946.7	4972.9	4991.4	4982.1	4974.4	4971.4	4986.8	4943.6	4891.2	4878.9
32.5°	5196.3	5217.8	5240.9	5281.0	5248.6	5234.8	5231.7	5242.5	5193.2	5134.6	5117.7
35°	5470.5	5485.9	5529.0	5562.9	5533.7	5501.3	5515.2	5549.1	5490.5	5411.9	5408.9
37.5°	5774.0	5787.8	5843.3	5878.7	5857.2	5801.7	5824.8	5864.9	5806.3	5709.3	5689.2
40°	6089.8	6119.1	6188.4	6225.4	6189.9	6116.0	6159.1	6202.2	6149.9	6037.4	5992.7
42.5°	6444.1	6490.3	6590.5	6609.0	6541.2	6441.0	6516.5	6585.8	6548.9	6419.5	6402.5
45°	6858.5	6886.3	7009.5	7049.6	6955.6	6830.8	6924.8	7051.1	7023.4	6873.9	6841.6
47.5°	7322.2	7348.4	7476.3	7536.4	7417.7	7249.8	7419.3	7584.1	7567.2	7407.0	7391.6
50°	7870.7	7876.8	8054.0	8121.8	8003.2	7858.3	8009.3	8214.2	8146.4	7941.5	7938.4
52.5°	8471.5	8479.2	8702.6	8833.5	8767.3	8604.0	8782.7	8907.5	8734.9	8466.9	8446.8
55°	8992.2	9030.7	9335.7	9683.9	9774.8	9656.2	9710.1	9651.5	9226.3	8850.5	8791.9
57.5°	9204.8	9280.3	9744.0	10394.1	10985.7	11161.3	10745.3	10187.6	9422.0	8890.5	8833.5
60°	8685.6	8767.3	9486.7	10720.7	12230.4	12993.0	11823.7	10278.5	8976.8	8229.6	8140.3
62.5°	6955.6	6978.7	8037.0	9951.9	12956.0	14931.0	12278.2	9503.6	7681.2	6666.0	6630.5
64°	5005.2	5242.5	6364.0	8725.7	12638.7	15668.9	12016.3	8417.6	6239.2	5211.7	5045.3
65°	3743.5	3808.2	5130.0	7451.6	12079.4	15613.5	11507.9	7379.2	5167.0	3988.5	3803.6
67.5°	1414.2	1421.9	1893.3	3714.3	8599.3	13433.6	8782.7	4014.7	2176.8	1574.4	1517.4
70°	586.9	597.7	694.8	1249.4	3695.8	8625.5	4235.0	1448.1	796.5	645.5	636.2
72.5°	429.8	436.0	465.2	554.6	1136.9	3541.7	1392.7	614.7	466.8	417.5	412.9
75°	337.4	340.5	362.0	408.2	529.9	981.3	579.2	422.1	355.9	320.4	317.4
77.5°	257.3	265.0	280.4	311.2	355.9	465.2	383.6	315.8	274.2	244.9	240.3
80°	177.2	186.4	215.7	228.0	238.8	301.9	261.9	238.8	214.1	178.7	167.9
82.5°	109.4	115.5	144.8	155.6	151.0	169.5	167.9	171.0	152.5	110.9	103.2
85°	57.0	60.1	78.6	81.6	75.5	69.3	86.3	100.1	94.0	63.2	61.6
87.5°	12.3	13.9	16.9	15.4	16.9	16.9	21.6	32.4	33.9	21.6	20.0
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)