

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: P458953

Luminaire Tested: **GALN-SA4D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29413 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

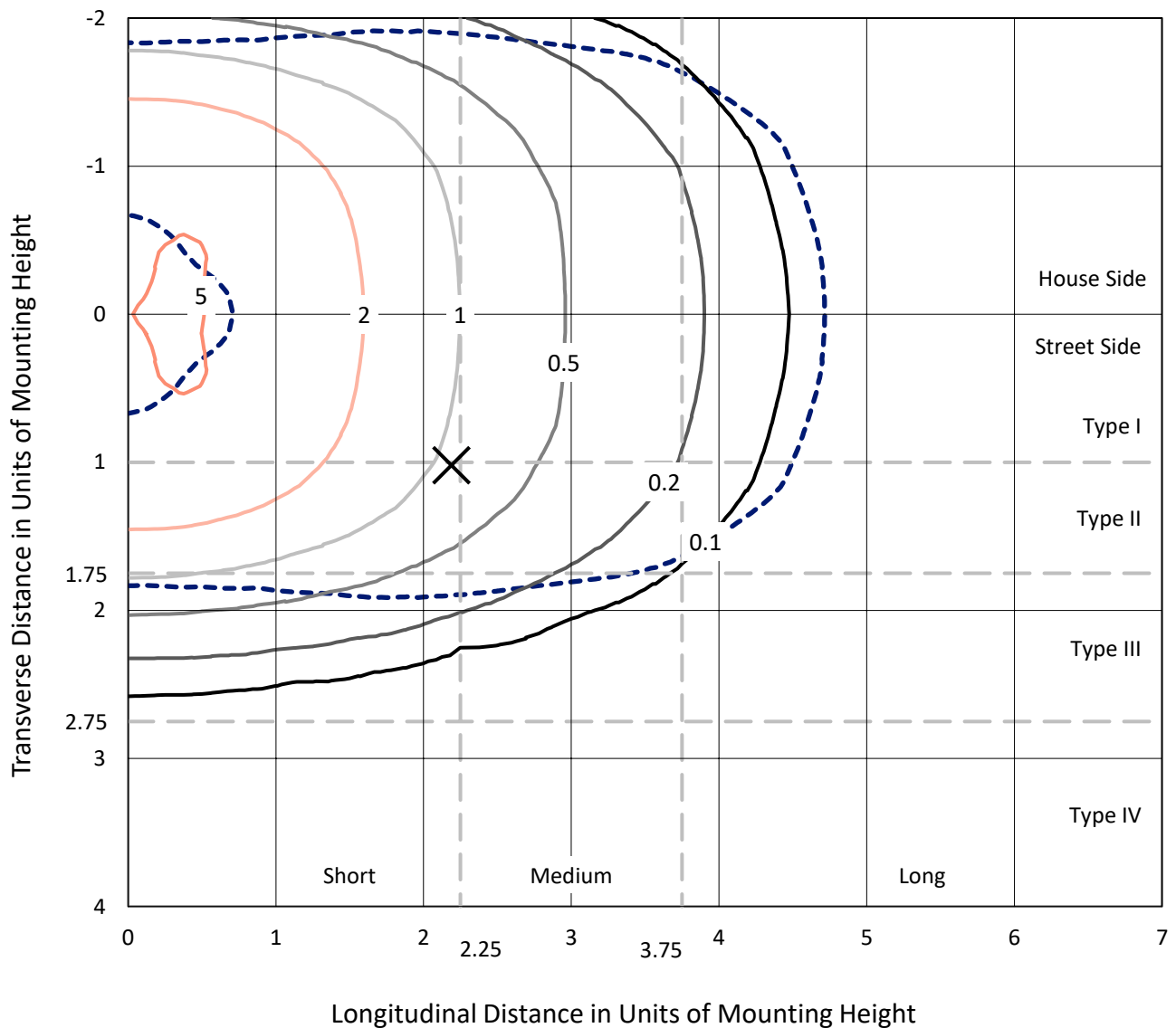
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458953
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Iso-Footcandle Lines of Horizontal Illumination

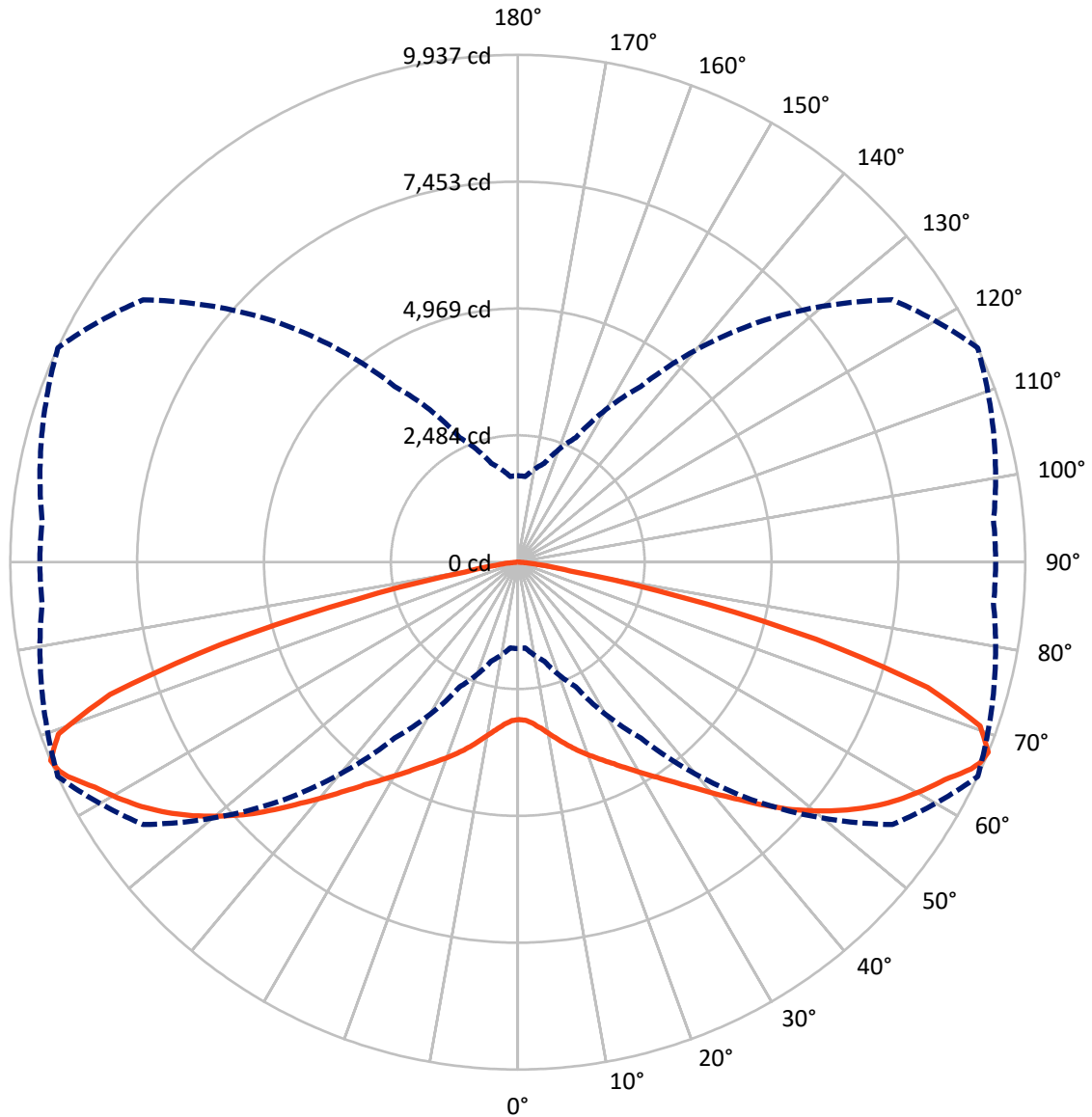
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P458953
CATALOG NUMBER: GALN-SA4D-735-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P458953

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14706.5	0.0	14706.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14706.5	0.0	14706.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29413.0	0.0	29413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.0
10°-20°	1016.9	3.5
20°-30°	1989.2	6.8
30°-40°	3383.4	11.5
40°-50°	5354.9	18.2
50°-60°	7100.5	24.1
60°-70°	6697.9	22.8
70°-80°	3311.1	11.3
80°-90°	255.2	0.9
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°	29413.0	100.0
0°-180°	29413.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458953

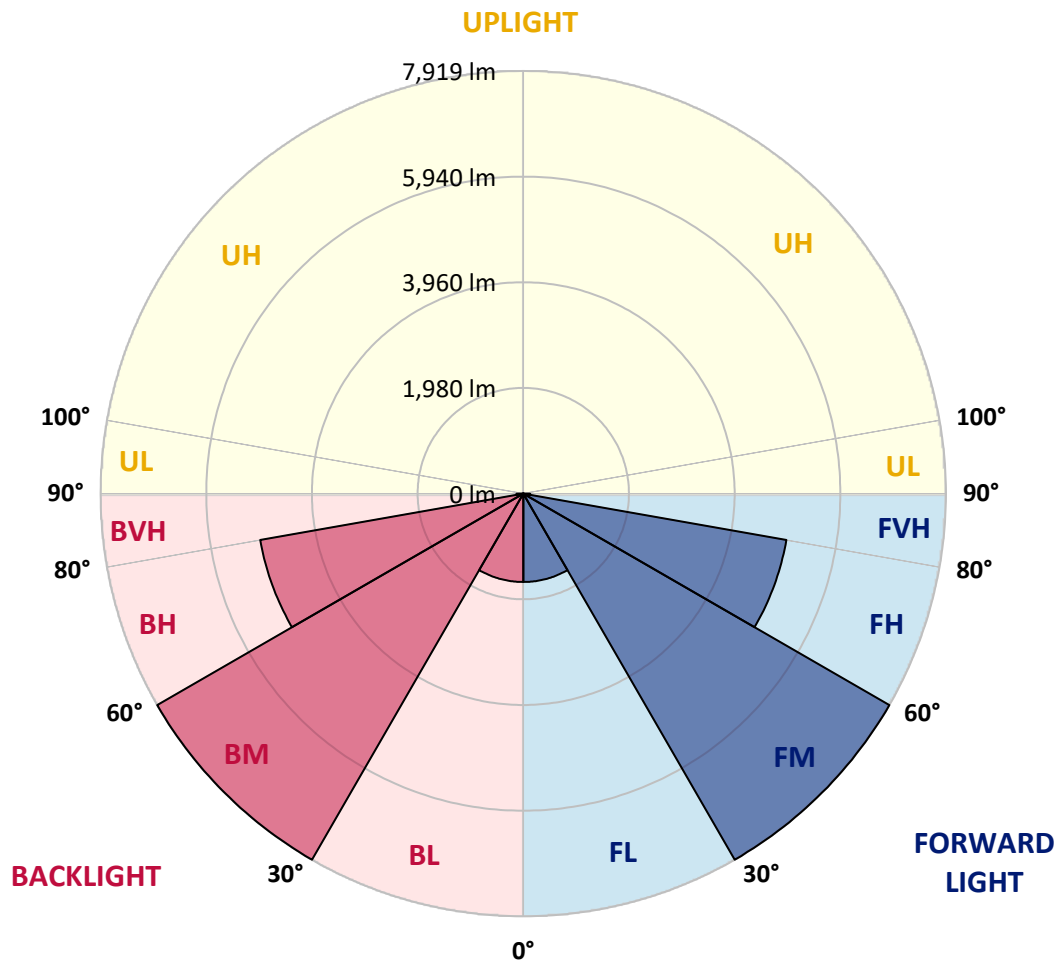
CATALOG NUMBER: GALN-SA4D-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.0	5.6			
FM	(30°-60°)	7919.4	26.9			
FH	(60°-80°)	5004.5	17.0			G3/7500
FVH	(80°-90°)	127.6	0.4			G2/225
BL	(0°-30°)	1655.0	5.6	B3/2500		
BM	(30°-60°)	7919.4	26.9	B4/8500		
BH	(60°-80°)	5004.5	17.0	B5		G5
BVH	(80°-90°)	127.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





REPORT NUMBER: P458953

CATALOG NUMBER: GALN-SA4D-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8	3080.8
2.5°	3065.0	3068.1	3071.3	3076.0	3082.3	3091.8	3098.1	3102.8	3115.4	3117.0	3115.4
5°	3054.0	3057.1	3065.0	3079.2	3099.7	3128.0	3150.1	3176.9	3197.4	3211.5	3208.4
7.5°	3052.4	3058.7	3071.3	3101.2	3140.6	3189.5	3239.9	3285.6	3325.0	3356.5	3351.8
10°	3077.6	3085.5	3106.0	3150.1	3211.5	3282.5	3353.4	3421.1	3477.9	3518.8	3533.0
12.5°	3120.1	3126.5	3164.3	3230.5	3318.7	3406.9	3487.3	3570.8	3649.6	3719.0	3719.0
15°	3194.2	3205.2	3252.5	3348.6	3457.4	3559.8	3641.7	3730.0	3815.1	3893.9	3917.5
17.5°	3296.6	3312.4	3383.3	3506.2	3644.9	3739.5	3816.7	3889.2	3963.2	4038.9	4049.9
20°	3436.9	3452.6	3547.2	3695.3	3859.2	3972.7	4024.7	4042.0	4078.3	4150.7	4160.2
22.5°	3627.6	3643.3	3748.9	3915.9	4098.7	4221.7	4243.7	4202.7	4193.3	4250.0	4256.3
25°	3843.5	3857.6	3979.0	4158.6	4347.7	4481.7	4475.4	4374.5	4317.8	4352.4	4361.9
27.5°	4086.1	4106.6	4229.5	4415.5	4620.3	4738.5	4719.6	4573.1	4451.7	4445.4	4448.6
30°	4396.6	4418.6	4535.2	4713.3	4915.0	5023.8	4984.4	4787.4	4599.9	4536.8	4536.8
32.5°	4724.3	4779.5	4897.7	5083.6	5241.2	5320.0	5260.1	5023.8	4774.8	4686.5	4681.8
35°	5151.4	5181.3	5297.9	5479.2	5597.4	5658.8	5543.8	5290.1	5003.3	4899.3	4885.1
37.5°	5569.0	5594.2	5729.7	5903.1	6046.5	6043.3	5887.3	5606.8	5286.9	5170.3	5160.9
40°	5996.0	6022.8	6177.3	6336.4	6479.8	6467.2	6278.1	5964.5	5624.1	5493.4	5518.6
42.5°	6366.4	6396.3	6571.2	6798.1	6927.4	6924.2	6705.2	6352.2	5997.6	5881.0	5903.1
45°	6703.6	6730.4	6933.7	7193.7	7382.8	7406.4	7166.9	6793.4	6429.4	6279.7	6286.0
47.5°	6941.5	6992.0	7204.7	7502.5	7759.4	7842.9	7608.1	7242.5	6823.4	6667.3	6676.8
50°	7122.8	7154.3	7385.9	7724.7	8049.4	8222.7	8033.6	7658.5	7217.3	7051.8	7073.9
52.5°	7144.8	7182.6	7434.8	7825.6	8241.6	8504.8	8411.8	8065.1	7619.1	7449.0	7496.2
55°	6965.2	6987.2	7288.2	7762.6	8317.2	8714.4	8738.0	8443.3	8002.1	7872.9	7904.4
57.5°	6453.0	6509.8	6891.1	7467.9	8213.2	8826.2	8982.2	8786.8	8389.7	8262.1	8312.5
60°	5613.1	5669.8	6052.8	6784.0	7820.9	8774.2	9184.0	9091.0	8741.1	8638.7	8665.5
62.5°	4398.1	4393.4	4867.7	5764.4	7040.8	8518.9	9333.7	9384.1	9087.8	8958.6	8999.6
65°	2850.7	2864.9	3323.4	4289.4	5863.7	7869.7	9366.7	9757.6	9428.2	9232.8	9262.7
66°	2292.8	2335.4	2724.6	3615.0	5263.3	7444.2	9267.5	9867.9	9532.2	9295.8	9310.0
67.5°	1692.4	1684.6	2004.5	2691.5	4202.7	6635.8	8957.0	9937.2	9650.4	9352.6	9358.9
70°	966.0	964.4	1077.9	1478.1	2470.9	4672.3	7549.8	9604.7	9889.9	9557.4	9540.1
72.5°	706.0	701.2	717.0	816.3	1205.5	2359.0	5208.1	8394.5	9767.0	9524.3	9475.5
75°	592.5	589.4	586.2	598.8	676.0	1068.4	2764.0	6038.6	8474.8	8939.7	8889.3
77.5°	483.8	483.8	485.4	482.2	485.4	562.6	1145.6	3236.8	5160.9	5761.2	5901.5
80°	378.2	376.6	403.4	392.4	367.2	360.9	507.4	1041.6	1712.9	1703.5	1405.6
82.5°	278.9	260.0	307.3	299.4	271.0	230.1	296.3	444.4	572.0	371.9	275.8
85°	176.5	174.9	217.5	198.6	165.5	108.7	141.8	190.7	236.4	143.4	116.6
87.5°	31.5	29.9	69.3	50.4	50.4	31.5	39.4	52.0	77.2	53.6	39.4
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)