

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: P530509

Luminaire Tested: **GALN-SA5D-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21174 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

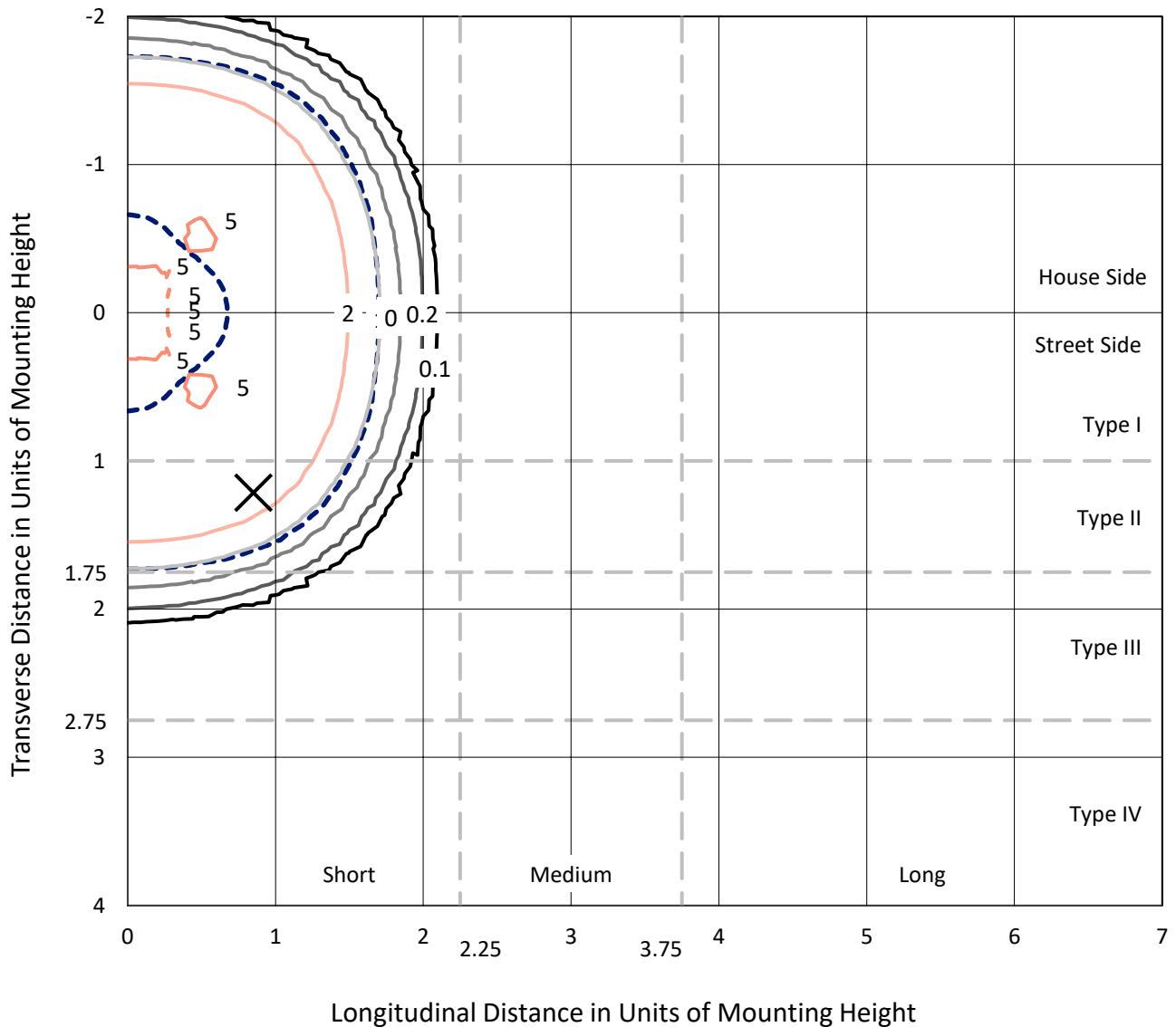
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

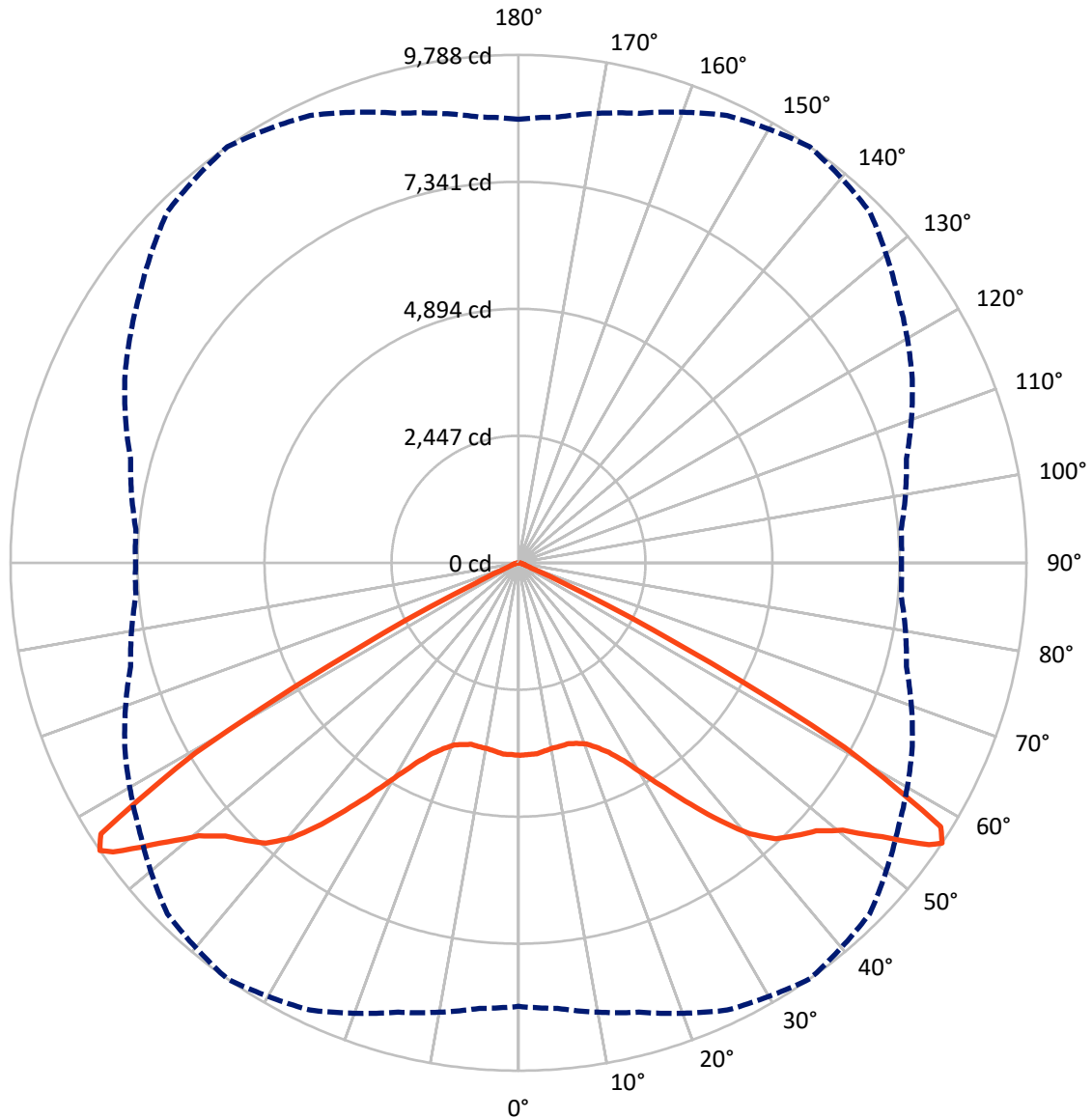
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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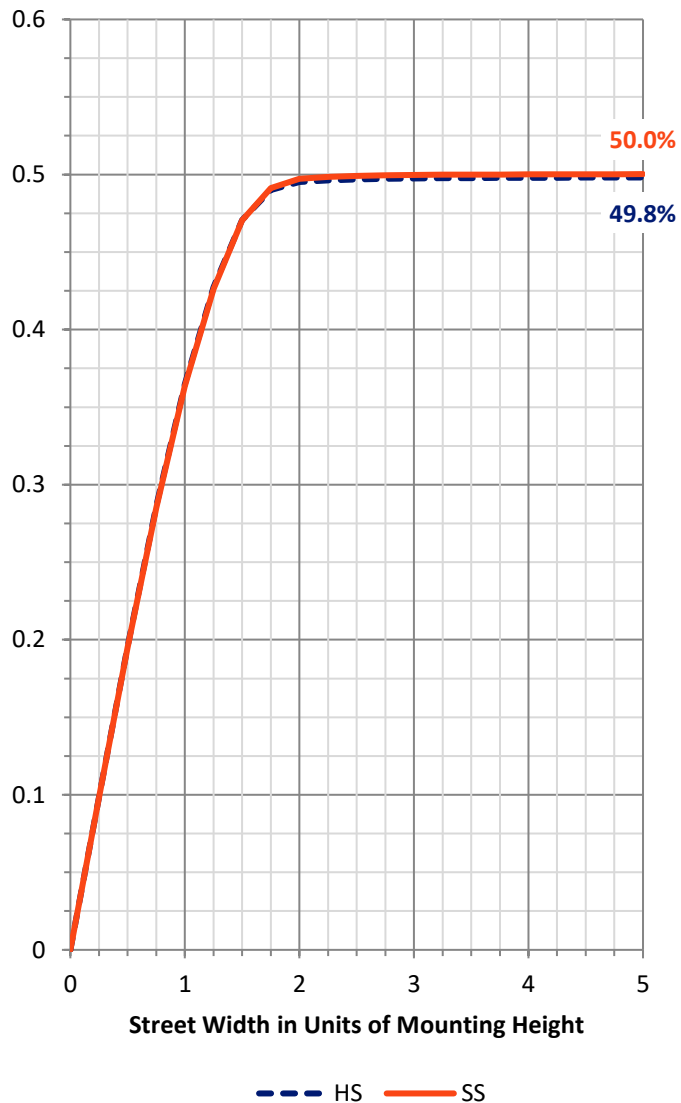
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10587.0	0.0	10587.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10587.0	0.0	10587.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21174.0	0.0	21174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	1.6
10°-20°	1018.0	4.8
20°-30°	1843.5	8.7
30°-40°	3418.5	16.1
40°-50°	5611.2	26.5
50°-60°	7229.0	34.1
60°-70°	1593.2	7.5
70°-80°	92.4	0.4
80°-90°	19.5	0.1
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°	21174.0	100.0
0°-180°	21174.0	100.0

Coefficient of Utilization



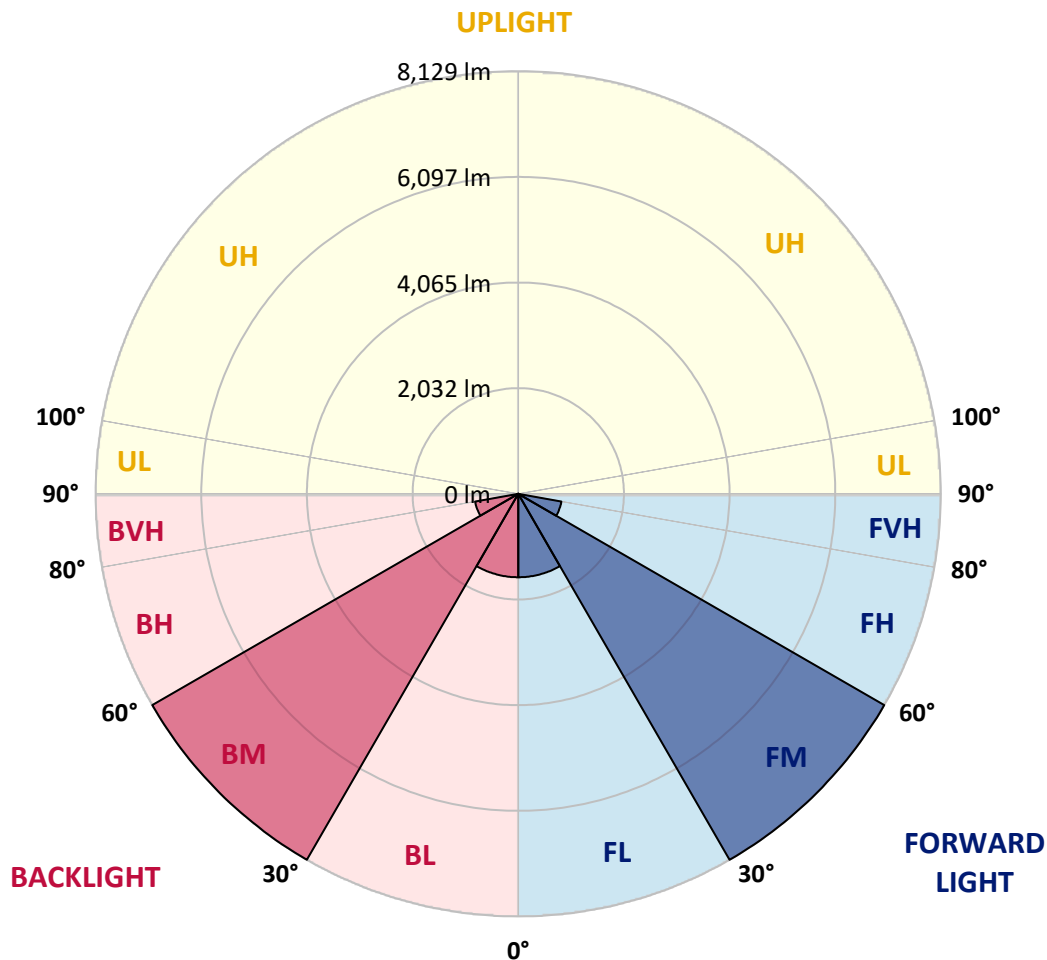
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.1	7.6			
FM (30°-60°)	8129.3	38.4			
FH (60°-80°)	842.8	4.0			G1/1800
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	1605.1	7.6	B3/2500		
BM (30°-60°)	8129.3	38.4	B4/8500		
BH (60°-80°)	842.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1
2.5°	3717.8	3717.8	3721.7	3725.5	3698.6	3687.1	3691.0	3683.3	3679.4	3691.0	3691.0
5°	3706.3	3706.3	3694.8	3698.6	3698.6	3664.1	3664.1	3671.8	3671.8	3648.8	3641.1
7.5°	3675.6	3667.9	3652.6	3671.8	3660.3	3660.3	3633.4	3614.2	3606.5	3621.9	3606.5
10°	3610.4	3614.2	3629.6	3637.2	3629.6	3652.6	3606.5	3579.7	3552.8	3541.3	3541.3
12.5°	3579.7	3602.7	3579.7	3598.9	3625.7	3606.5	3579.7	3560.5	3522.1	3506.8	3506.8
15°	3575.9	3591.2	3598.9	3625.7	3614.2	3621.9	3568.2	3545.2	3487.6	3460.8	3449.2
17.5°	3572.0	3591.2	3602.7	3652.6	3660.3	3664.1	3621.9	3552.8	3503.0	3476.1	3449.2
20°	3614.2	3621.9	3644.9	3694.8	3725.5	3779.2	3702.5	3629.6	3522.1	3491.4	3479.9
22.5°	3667.9	3706.3	3729.3	3783.0	3863.6	3909.7	3809.9	3717.8	3606.5	3568.2	3522.1
25°	3840.6	3832.9	3871.3	3982.5	4047.8	4082.3	4001.7	3867.4	3721.7	3675.6	3683.3
27.5°	4055.4	4063.1	4097.7	4220.4	4316.3	4370.1	4274.1	4097.7	3955.7	3879.0	3871.3
30°	4335.5	4327.9	4366.2	4531.2	4703.9	4784.4	4615.6	4408.4	4270.3	4170.6	4193.6
32.5°	4631.0	4634.8	4742.2	4891.9	5171.9	5329.2	5056.8	4803.6	4596.4	4527.4	4492.8
35°	5068.4	5087.5	5171.9	5402.1	5712.9	5916.3	5617.0	5313.9	5076.0	4949.4	4964.8
37.5°	5609.3	5590.1	5732.1	5981.5	6307.6	6457.3	6204.0	5858.7	5617.0	5532.6	5586.3
40°	6184.8	6204.0	6276.9	6503.3	6867.8	6967.5	6591.5	6403.5	6192.5	6150.3	6215.5
42.5°	6760.4	6748.8	6802.6	7005.9	7270.6	7201.6	6979.1	6867.8	6718.2	6633.7	6722.0
45°	7182.4	7163.2	7263.0	7401.1	7497.0	7366.6	7266.8	7228.4	7151.7	7059.6	7140.2
47.5°	7592.9	7577.6	7673.5	7711.9	7719.5	7546.9	7566.1	7635.1	7443.3	7251.5	7343.5
50°	7942.1	7915.2	8034.2	8118.6	8099.4	7823.1	7892.2	7823.1	7523.9	7297.5	7263.0
52.5°	8525.3	8536.8	8663.4	8816.9	8770.8	8540.6	8440.9	8126.2	7742.6	7539.2	7420.3
55°	8893.6	8836.0	9054.7	9542.0	9595.7	9357.8	8916.6	8452.4	7876.9	7627.5	7596.8
56°	8548.3	8621.2	8966.5	9511.3	9787.6	9568.9	8928.1	8371.8	7738.7	7401.1	7378.1
57.5°	7669.7	7631.3	8099.4	8843.7	9595.7	9503.6	8613.5	7796.3	7059.6	6679.8	6633.7
60°	4772.9	4884.2	5294.7	6215.5	7220.8	7266.8	6384.4	5682.2	4822.8	4485.2	4565.7
62.5°	1868.5	1772.6	2029.6	2716.4	3407.0	3560.5	3226.7	2681.9	2202.3	1868.5	1845.5
65°	433.6	422.0	475.8	656.1	917.0	1062.8	1009.1	725.1	533.3	506.5	468.1
67.5°	245.6	245.6	234.0	234.0	257.1	272.4	260.9	257.1	268.6	280.1	276.2
70°	172.7	168.8	161.1	165.0	157.3	157.3	168.8	188.0	203.3	203.3	207.2
72.5°	103.6	103.6	103.6	115.1	115.1	115.1	126.6	142.0	145.8	142.0	138.1
75°	46.0	46.0	53.7	65.2	72.9	76.7	88.2	95.9	103.6	95.9	88.2
77.5°	11.5	11.5	19.2	26.9	34.5	42.2	57.6	69.1	72.9	69.1	57.6
80°	3.8	3.8	7.7	19.2	34.5	42.2	57.6	61.4	65.2	57.6	46.0
82.5°	3.8	3.8	7.7	19.2	26.9	34.5	46.0	53.7	57.6	49.9	46.0
85°	0.0	3.8	7.7	15.3	23.0	30.7	30.7	23.0	19.2	11.5	15.3
87.5°	0.0	0.0	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)