

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: P456485

Luminaire Tested: **GALN-SA7D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51358 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

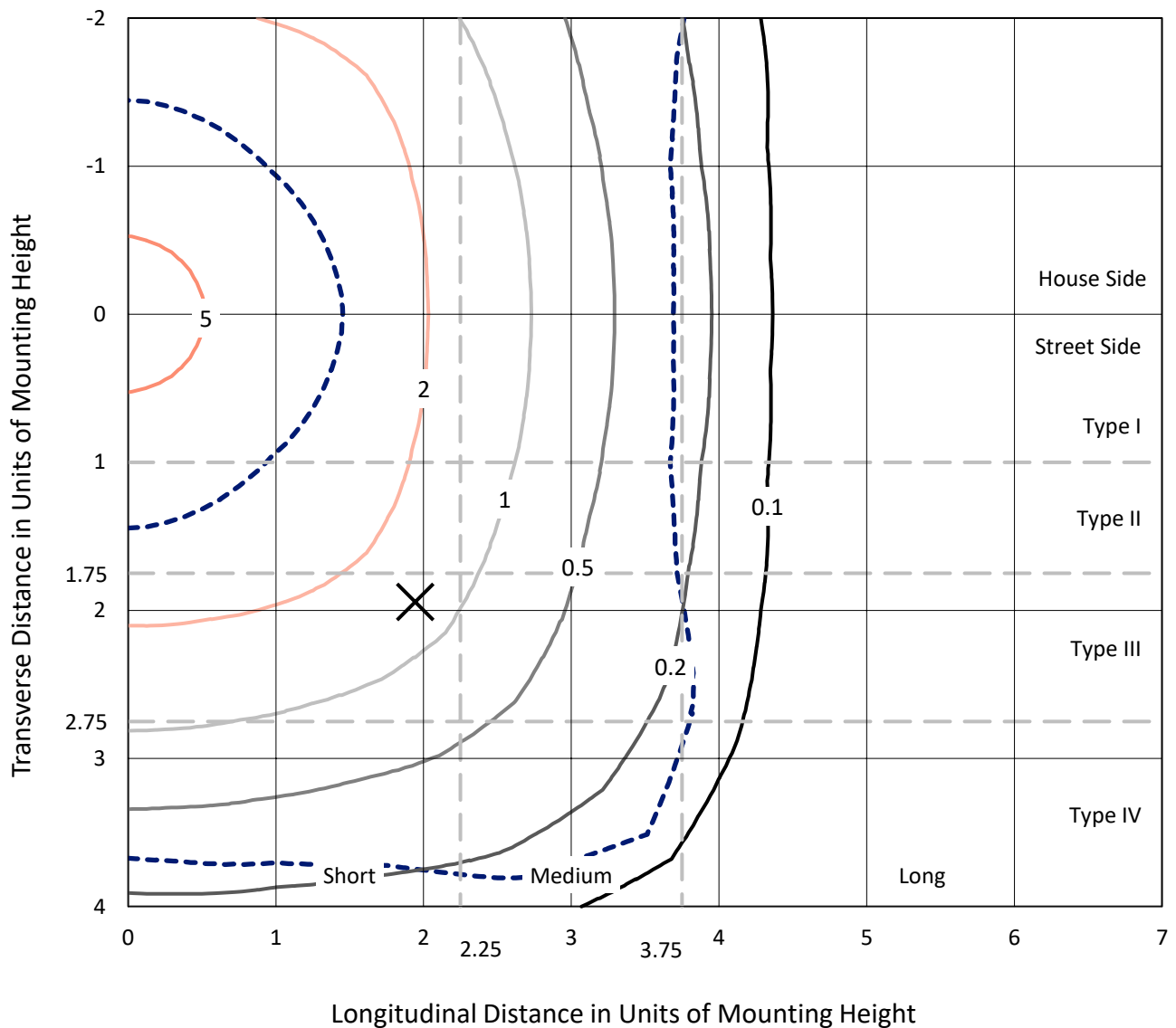
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456485
 CATALOG NUMBER: GALN-SA7D-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

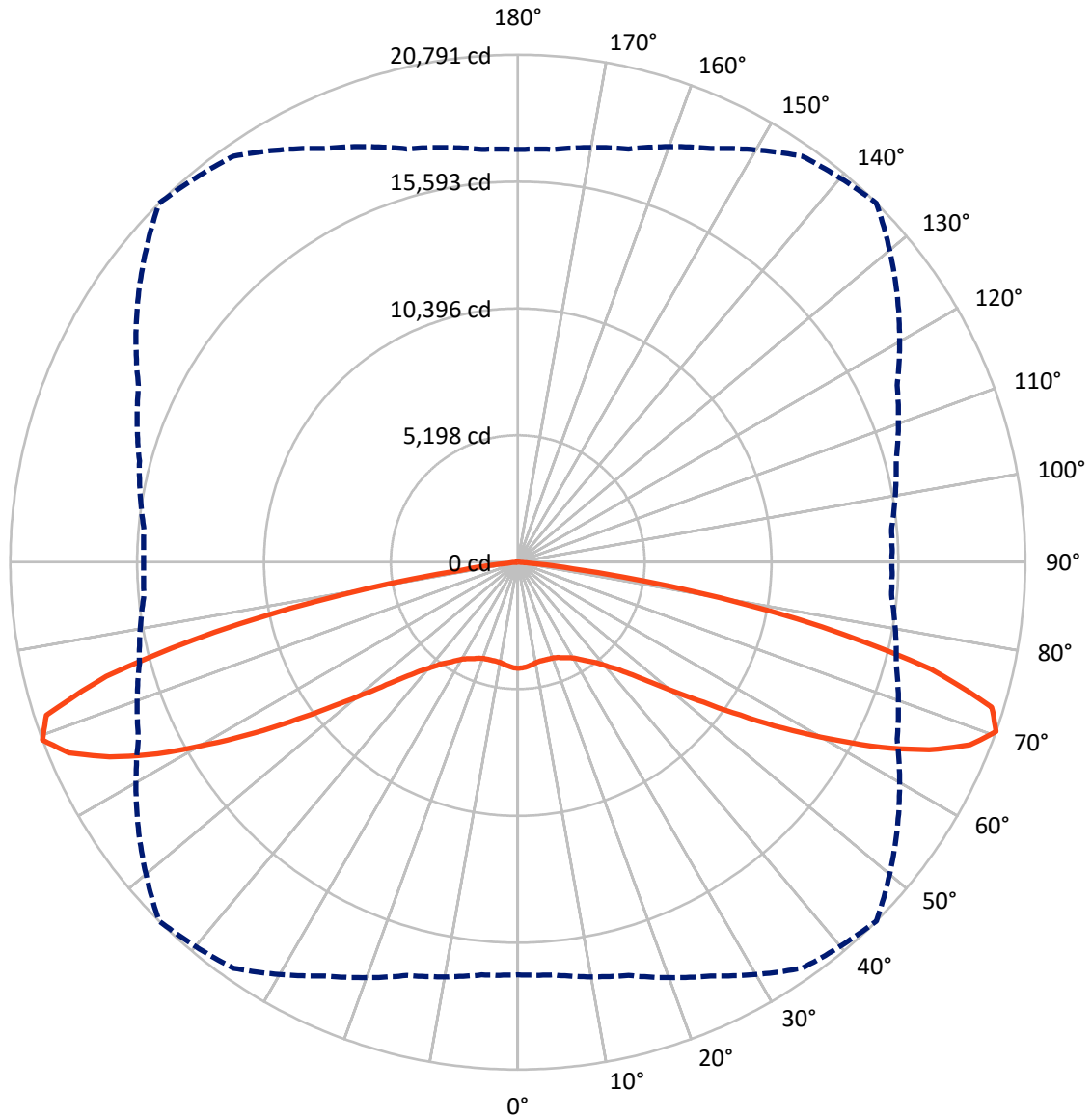
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

REPORT NUMBER: P456485
CATALOG NUMBER: GALN-SA7D-730-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P456485

CATALOG NUMBER: GALN-SA7D-730-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25679.0	0.0	25679.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25679.0	0.0	25679.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51358.0	0.0	51358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	0.8
10°-20°	1190.4	2.3
20°-30°	2028.2	3.9
30°-40°	3143.7	6.1
40°-50°	5291.3	10.3
50°-60°	9627.3	18.7
60°-70°	16298.7	31.7
70°-80°	12615.8	24.6
80°-90°	756.0	1.5
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°	51358.0	100.0
0°-180°	51358.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456485

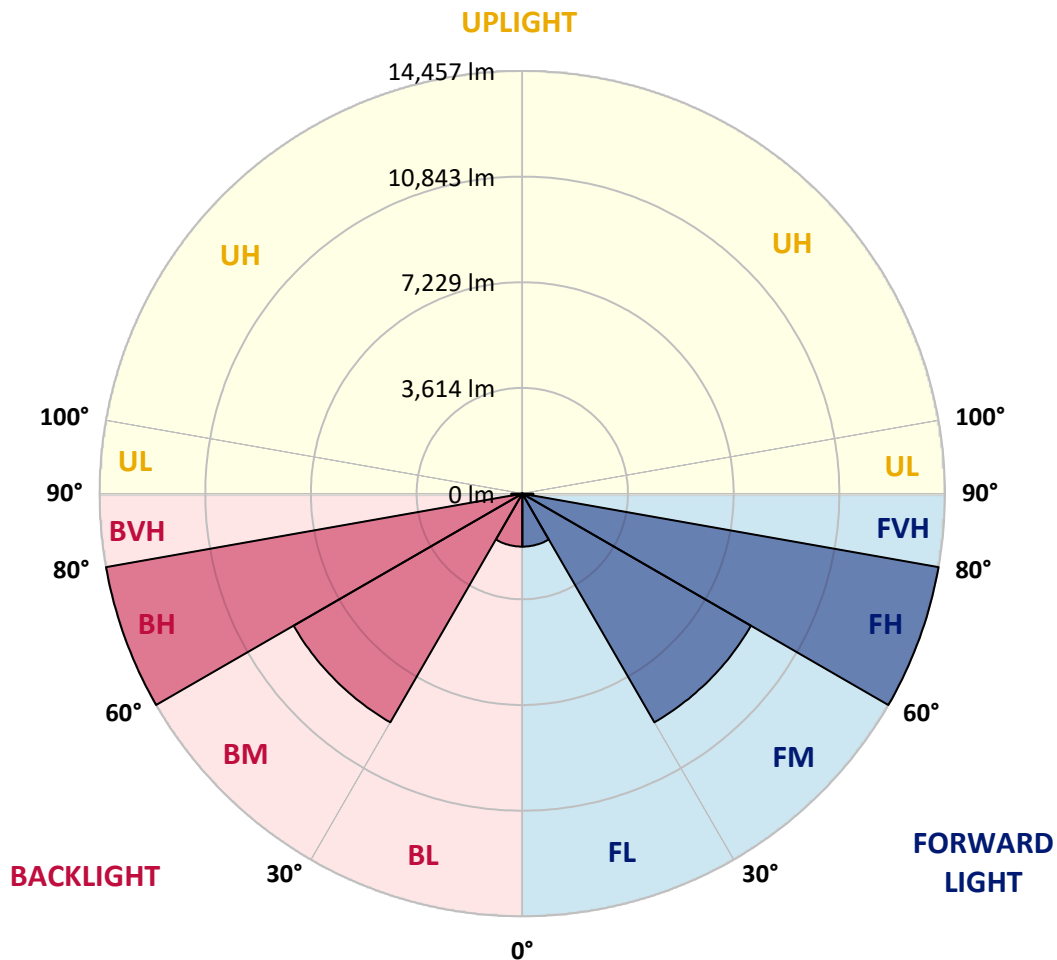
CATALOG NUMBER: GALN-SA7D-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.6	3.5			
FM (30°-60°)	9031.1	17.6			
FH (60°-80°)	14457.3	28.1			G5
FVH (80°-90°)	378.0	0.7			G3/500
BL (0°-30°)	1812.6	3.5	B3/2500		
BM (30°-60°)	9031.1	17.6	B5		
BH (60°-80°)	14457.3	28.1	B5		G5
BVH (80°-90°)	378.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P456485

CATALOG NUMBER: GALN-SA7D-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1	4348.1
2.5°	4337.2	4339.9	4339.9	4334.5	4331.8	4331.8	4329.1	4329.1	4337.2	4339.9	4342.7
5°	4299.3	4299.3	4299.3	4296.5	4291.1	4291.1	4285.7	4285.7	4288.4	4296.5	4291.1
7.5°	4247.7	4253.1	4253.1	4242.3	4234.2	4234.2	4231.4	4234.2	4236.9	4245.0	4242.3
10°	4231.4	4234.2	4220.6	4201.6	4188.0	4179.9	4182.6	4188.0	4201.6	4207.0	4209.7
12.5°	4242.3	4242.3	4217.9	4190.8	4166.3	4155.5	4152.8	4171.8	4196.2	4212.5	4217.9
15°	4255.9	4250.4	4220.6	4185.3	4160.9	4158.2	4155.5	4169.1	4204.3	4236.9	4239.6
17.5°	4264.0	4261.3	4223.3	4179.9	4166.3	4166.3	4163.6	4174.5	4212.5	4253.1	4255.9
20°	4291.1	4283.0	4239.6	4193.5	4182.6	4188.0	4179.9	4193.5	4234.2	4283.0	4293.8
22.5°	4345.4	4337.2	4293.8	4247.7	4242.3	4242.3	4239.6	4253.1	4296.5	4348.1	4356.2
25°	4410.5	4402.3	4361.6	4329.1	4334.5	4345.4	4339.9	4342.7	4377.9	4421.3	4434.9
27.5°	4497.3	4483.7	4448.4	4421.3	4437.6	4437.6	4437.6	4434.9	4456.6	4497.3	4510.8
30°	4603.1	4597.6	4559.7	4556.9	4570.5	4556.9	4556.9	4559.7	4562.4	4600.3	4613.9
32.5°	4741.4	4730.5	4711.6	4706.1	4744.1	4755.0	4717.0	4681.7	4700.7	4738.7	4746.8
35°	4969.2	4953.0	4925.8	4896.0	4925.8	4977.4	4896.0	4868.9	4917.7	4969.2	4974.7
37.5°	5278.5	5270.3	5226.9	5172.7	5170.0	5224.2	5140.1	5137.4	5229.6	5292.0	5300.2
40°	5666.3	5674.5	5620.2	5568.7	5541.6	5585.0	5519.9	5544.3	5633.8	5704.3	5698.9
42.5°	6211.5	6181.7	6097.6	6048.8	6019.0	6002.7	5986.4	6024.4	6124.7	6200.7	6260.4
45°	6849.0	6838.1	6732.3	6672.7	6607.6	6583.2	6577.7	6645.5	6767.6	6859.8	6868.0
47.5°	7570.5	7546.1	7478.3	7415.9	7391.5	7361.6	7334.5	7386.0	7508.1	7573.2	7592.2
50°	8313.7	8319.1	8319.1	8308.3	8332.7	8338.1	8264.9	8283.9	8351.7	8346.3	8340.8
52.5°	9162.7	9192.5	9333.6	9347.2	9463.8	9542.5	9409.5	9330.9	9306.5	9160.0	9170.8
55°	10160.9	10188.0	10399.6	10611.2	10925.8	11058.7	10779.3	10535.2	10361.6	10139.2	10150.0
57.5°	11405.9	11419.5	11620.2	12027.1	12526.2	12838.1	12347.1	11864.3	11511.7	11300.1	11216.0
60°	12745.9	12759.4	13052.4	13548.8	14324.5	14704.3	14096.7	13307.4	12862.5	12539.7	12561.4
62.5°	14354.4	14408.6	14671.7	15355.3	16296.5	16722.4	15916.8	14861.6	14259.4	13858.0	13874.3
65°	16076.8	16169.0	16456.5	17207.9	18075.9	18534.3	17546.9	16329.0	15580.4	15089.5	15141.0
67.5°	17194.3	17275.7	17690.7	18520.7	19603.0	19982.7	18707.9	17289.3	16353.5	15767.6	15659.1
70°	16909.5	16977.3	17530.7	18707.9	20310.9	20791.1	18984.6	17148.2	16047.0	15371.5	15328.1
72.5°	14926.7	14785.7	15594.0	17283.8	19502.6	20308.2	18113.9	15661.8	14275.7	13581.3	13499.9
75°	9892.4	10198.9	11392.4	13383.3	16499.9	17498.1	15461.1	12575.0	10830.9	10253.1	10163.6
77.5°	3306.5	3542.5	4603.1	7586.8	11248.6	12748.6	11264.9	8224.2	5818.2	4687.1	4708.8
80°	876.1	865.3	1120.2	2085.9	4860.7	7383.3	5658.2	2785.7	1524.4	1104.0	1047.0
82.5°	314.6	352.6	453.0	577.8	1288.4	2294.7	1619.3	781.2	572.3	423.1	409.6
85°	138.3	135.6	195.3	230.6	322.8	428.6	379.7	330.9	290.2	192.6	179.0
87.5°	29.8	29.8	46.1	35.3	57.0	57.0	70.5	84.1	86.8	57.0	46.1
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)