

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: P528694

Luminaire Tested: **GALN-SA3D-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19592 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

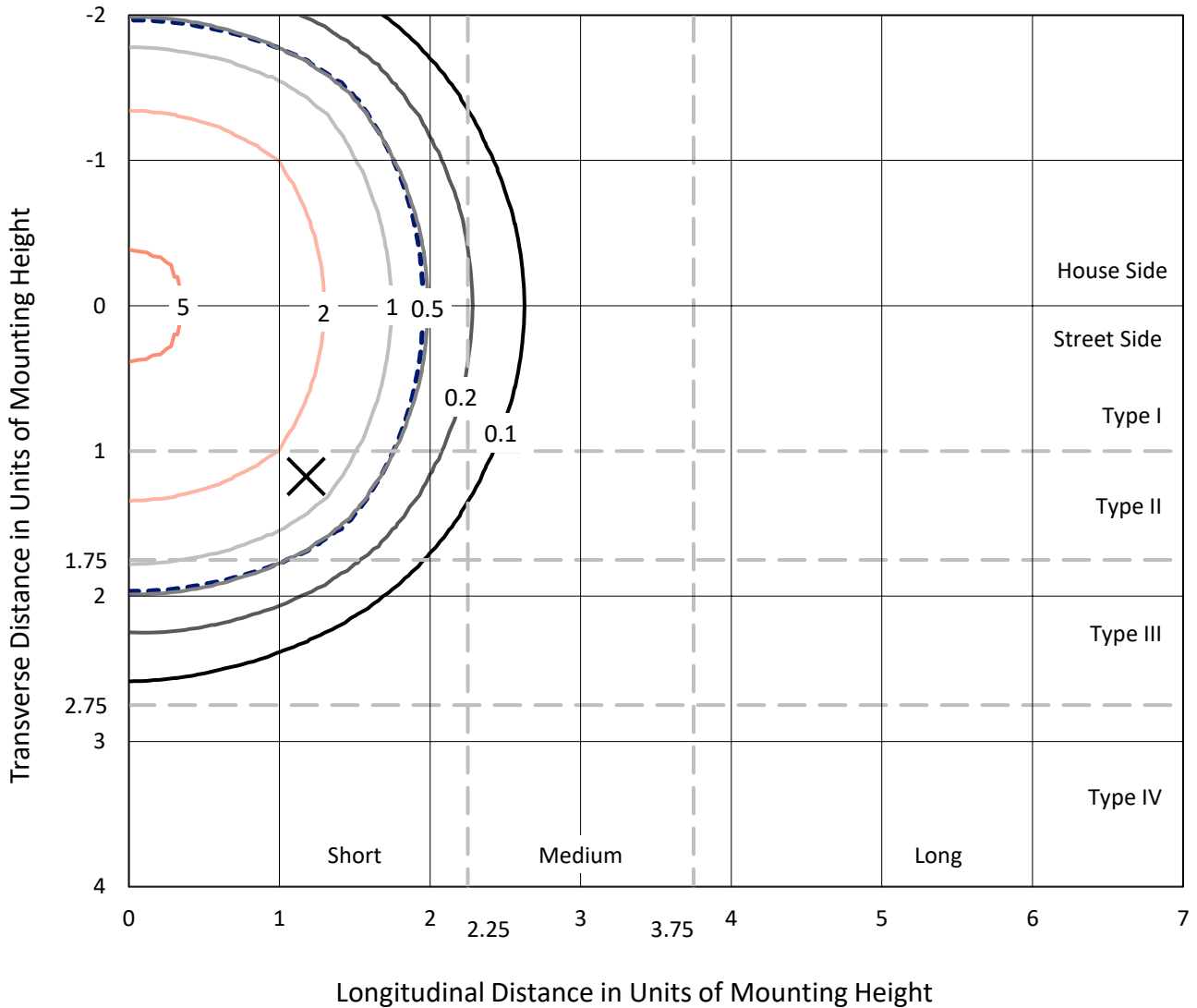
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

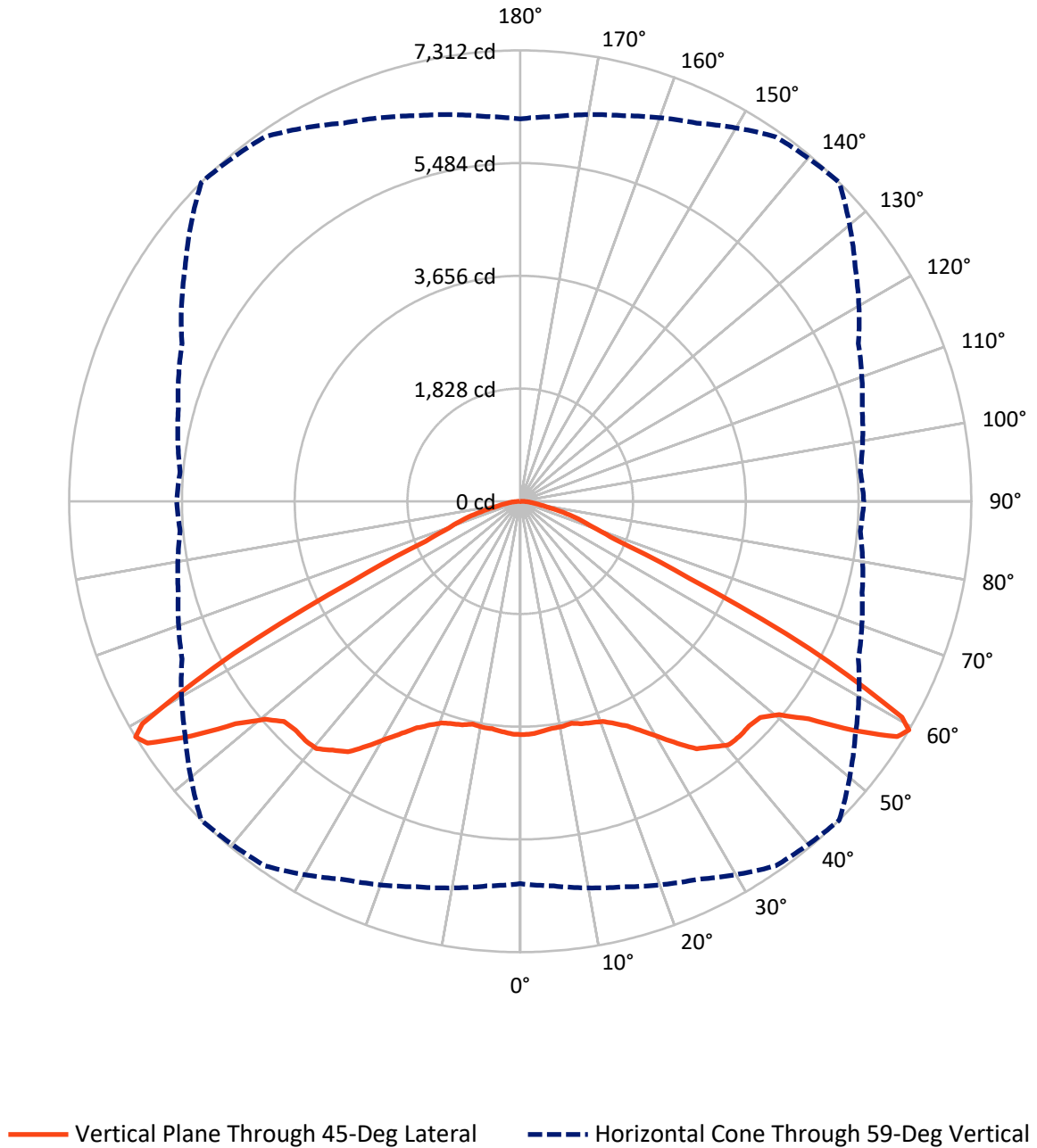
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9796.0	0.0	9796.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9796.0	0.0	9796.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19592.0	0.0	19592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	1.8
10°-20°	1060.9	5.4
20°-30°	1852.4	9.5
30°-40°	2958.5	15.1
40°-50°	4030.1	20.6
50°-60°	5449.8	27.8
60°-70°	2988.7	15.3
70°-80°	764.6	3.9
80°-90°	130.4	0.7
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°	19592.0	100.0
0°-180°	19592.0	100.0

Coefficient of Utilization



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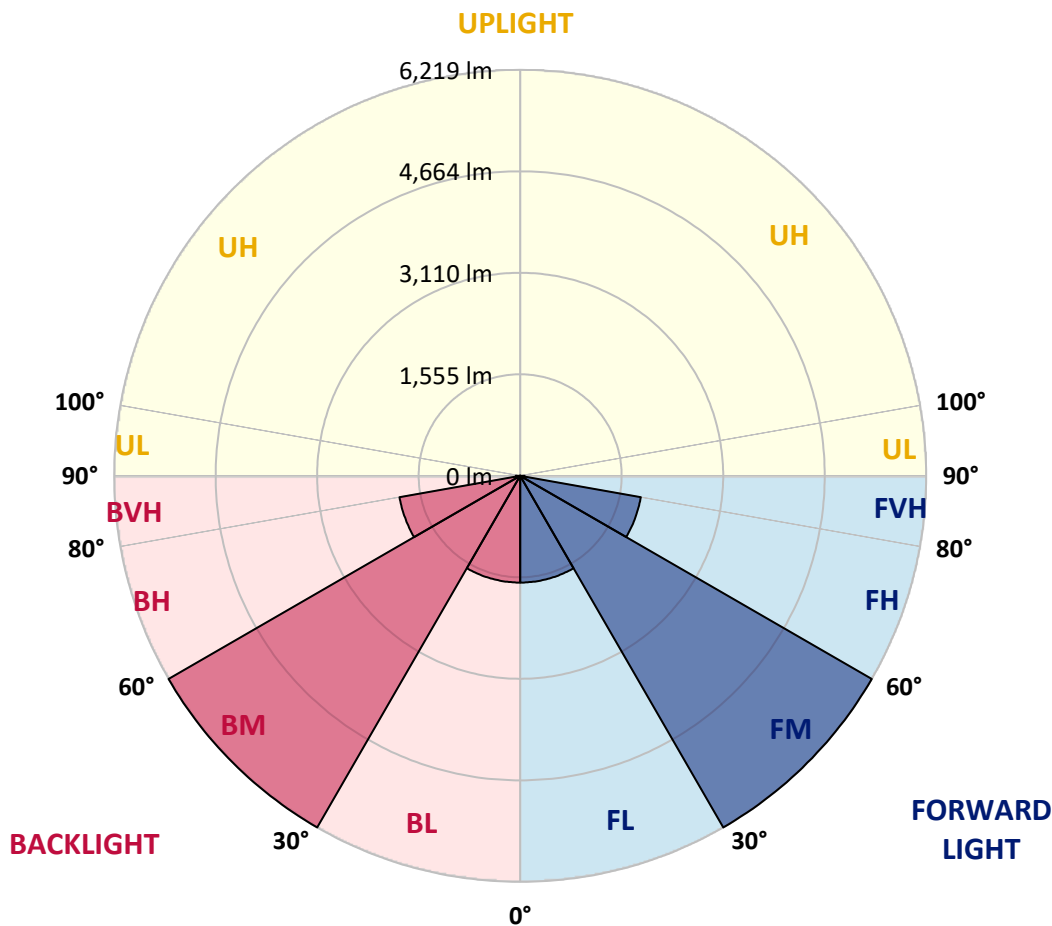
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.0	8.3			
FM (30°-60°)	6219.2	31.7			
FH (60°-80°)	1876.6	9.6			G2/5000
FVH (80°-90°)	65.2	0.3			G1/100
BL (0°-30°)	1635.0	8.3	B3/2500		
BM (30°-60°)	6219.2	31.7	B4/8500		
BH (60°-80°)	1876.6	9.6	B3/2500		G2/5000
BVH (80°-90°)	65.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2	3784.2
2.5°	3761.6	3789.3	3769.2	3786.7	3784.2	3776.7	3764.1	3756.6	3746.6	3761.6	3736.5
5°	3746.6	3769.2	3791.8	3761.6	3761.6	3746.6	3739.0	3724.0	3724.0	3721.5	3718.9
7.5°	3771.7	3749.1	3739.0	3744.1	3749.1	3716.4	3739.0	3708.9	3683.8	3701.4	3721.5
10°	3749.1	3759.1	3721.5	3739.0	3711.4	3716.4	3701.4	3721.5	3693.8	3693.8	3693.8
12.5°	3771.7	3744.1	3756.6	3744.1	3736.5	3693.8	3713.9	3691.3	3688.8	3713.9	3691.3
15°	3816.9	3771.7	3761.6	3736.5	3744.1	3744.1	3724.0	3726.5	3698.9	3713.9	3718.9
17.5°	3801.8	3776.7	3769.2	3739.0	3764.1	3771.7	3734.0	3708.9	3726.5	3724.0	3721.5
20°	3814.4	3824.4	3816.9	3821.9	3831.9	3811.9	3776.7	3741.5	3718.9	3751.6	3749.1
22.5°	3894.7	3884.7	3879.7	3874.6	3892.2	3912.3	3864.6	3809.3	3809.3	3831.9	3842.0
25°	3960.0	3957.5	3955.0	3977.6	4037.9	4037.9	3977.6	3907.3	3889.7	3904.8	3892.2
27.5°	4055.4	4083.1	4073.0	4113.2	4201.1	4221.2	4140.8	4057.9	4010.2	3992.7	4015.3
30°	4273.9	4241.3	4248.8	4291.5	4369.3	4434.6	4311.6	4223.7	4158.4	4155.9	4165.9
32.5°	4419.5	4444.7	4467.3	4507.4	4630.5	4680.7	4532.5	4389.4	4349.2	4326.6	4334.2
35°	4710.8	4688.2	4683.2	4723.4	4846.4	4929.3	4743.5	4617.9	4565.2	4615.4	4615.4
37.5°	4987.1	4924.3	4876.6	4929.3	5042.3	5052.3	4894.1	4826.3	4798.7	4856.5	4854.0
40°	5117.6	5112.6	5002.1	5032.3	5182.9	5198.0	5049.8	4969.5	4964.5	5039.8	5115.1
42.5°	5253.2	5205.5	5095.0	5115.1	5208.0	5213.1	5072.4	5049.8	5105.1	5177.9	5182.9
45°	5275.8	5235.7	5165.3	5115.1	5182.9	5198.0	5115.1	5130.2	5135.2	5223.1	5223.1
47.5°	5321.0	5316.0	5275.8	5238.2	5250.7	5238.2	5185.4	5208.0	5283.4	5326.1	5306.0
50°	5446.6	5393.9	5434.0	5401.4	5403.9	5439.1	5391.3	5413.9	5398.9	5361.2	5336.1
52.5°	5722.8	5697.7	5732.9	5755.5	5780.6	5860.9	5805.7	5685.1	5572.1	5471.7	5469.2
55°	6127.1	6144.7	6212.5	6328.0	6425.9	6554.0	6287.8	5999.0	5818.2	5660.0	5670.1
57.5°	6508.8	6496.2	6589.1	6852.8	7139.1	7204.4	6682.1	6270.2	5976.4	5876.0	5833.3
59°	6202.4	6262.7	6473.6	6767.4	7216.9	7312.3	6629.3	6049.3	5737.9	5534.5	5569.6
60°	5720.3	5742.9	5931.2	6340.5	6948.2	7111.5	6275.3	5707.7	5293.4	5175.4	5228.1
62.5°	4042.9	4025.3	4160.9	4494.9	5039.8	5260.8	4665.6	4266.4	4005.2	3874.6	3904.8
65°	2149.5	2229.9	2285.1	2493.5	2782.3	3015.8	2769.8	2596.5	2450.8	2342.9	2340.4
67.5°	1451.4	1441.4	1453.9	1501.6	1599.6	1664.9	1659.8	1572.0	1559.4	1539.3	1561.9
70°	1222.9	1217.9	1195.3	1195.3	1215.4	1230.4	1248.0	1258.1	1278.2	1303.3	1300.8
72.5°	991.9	979.3	964.3	956.7	981.8	989.4	1012.0	1022.0	1039.6	1037.1	1059.7
75°	655.4	655.4	673.0	693.1	700.6	715.7	718.2	748.3	748.3	753.3	733.2
77.5°	366.6	356.6	369.1	389.2	406.8	434.4	462.0	484.6	497.2	492.2	492.2
80°	213.4	213.4	226.0	248.6	271.2	296.3	316.4	334.0	346.5	341.5	331.5
82.5°	133.1	133.1	145.6	168.2	185.8	200.9	228.5	251.1	266.2	261.2	248.6
85°	67.8	67.8	82.9	97.9	120.5	130.6	128.1	118.0	115.5	103.0	103.0
87.5°	17.6	17.6	25.1	27.6	22.6	25.1	25.1	25.1	25.1	25.1	27.6
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)