

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: P531840

Luminaire Tested: **GALN-SA7A-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531840
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-SA7A-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 21474 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 215
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



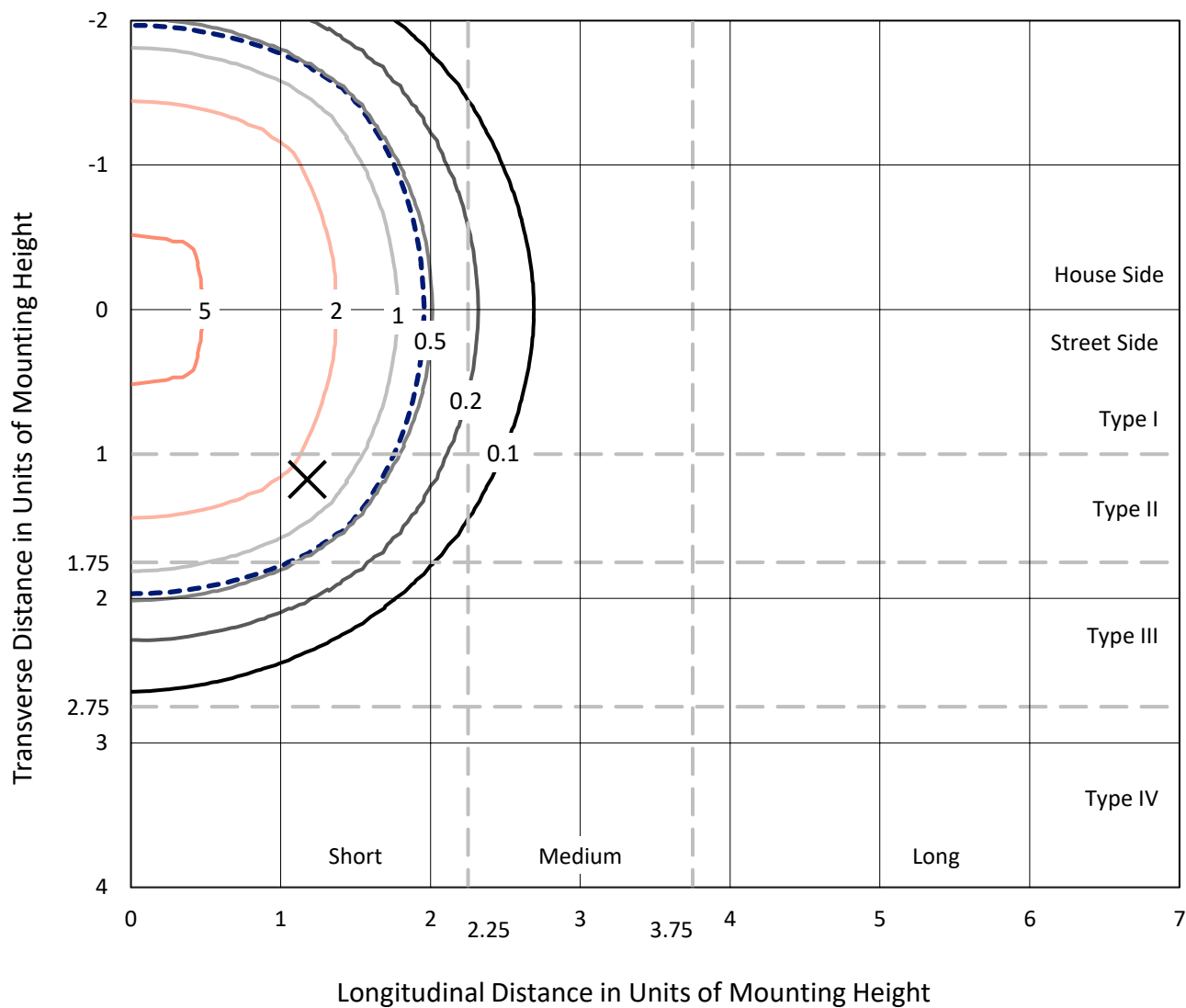
REPORT NUMBER: P531840

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



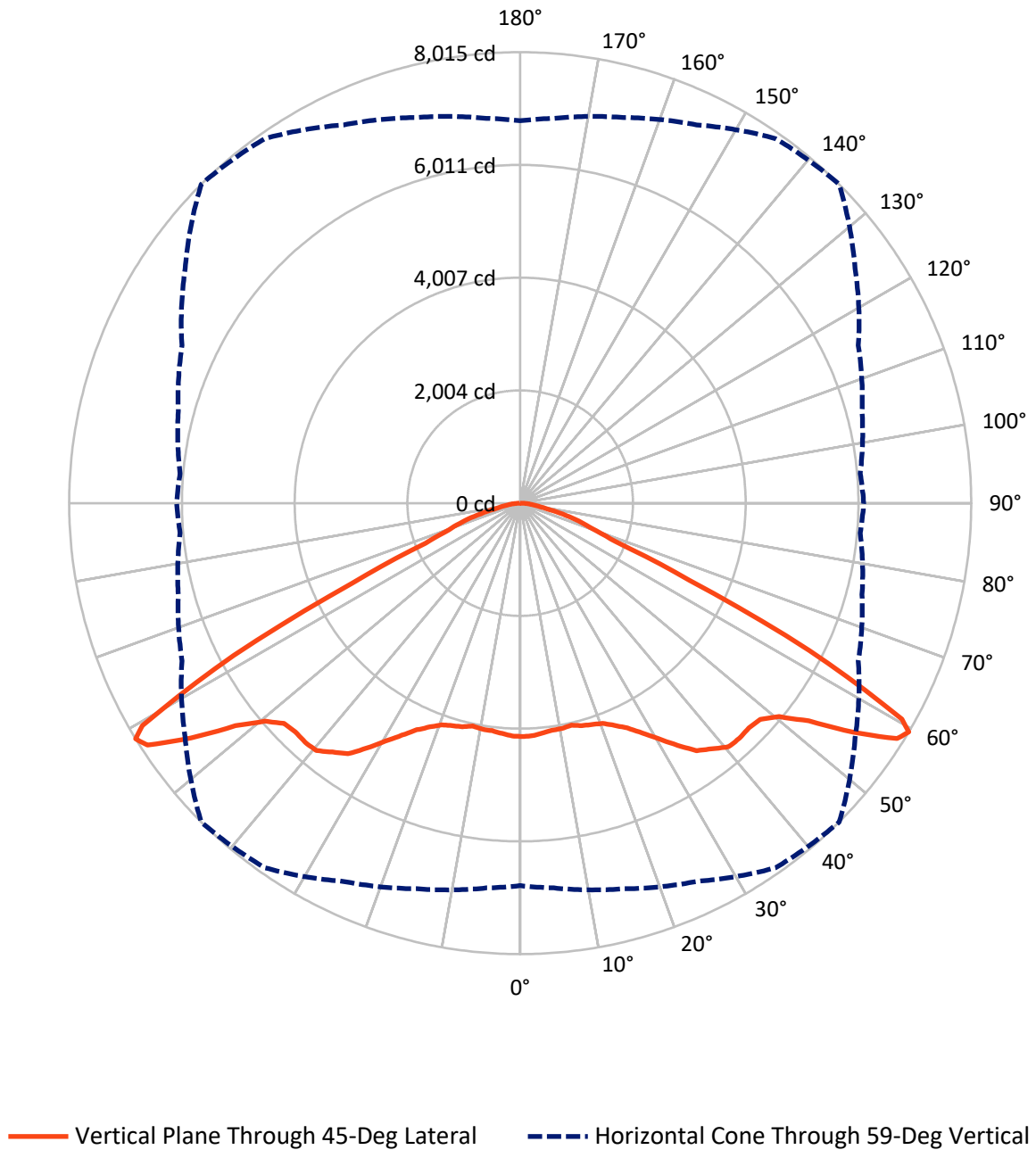
Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type V - Short - N/A

REPORT NUMBER: P531840

CATALOG NUMBER: GALN-SA7A-830-U-5WQ-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10737.0	0.0	10737.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10737.0	0.0	10737.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21474.0	0.0	21474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.8
10°-20°	1162.8	5.4
20°-30°	2030.3	9.5
30°-40°	3242.7	15.1
40°-50°	4417.2	20.6
50°-60°	5973.3	27.8
60°-70°	3275.8	15.3
70°-80°	838.0	3.9
80°-90°	142.9	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°	21474.0	100.0
0°-180°	21474.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531840

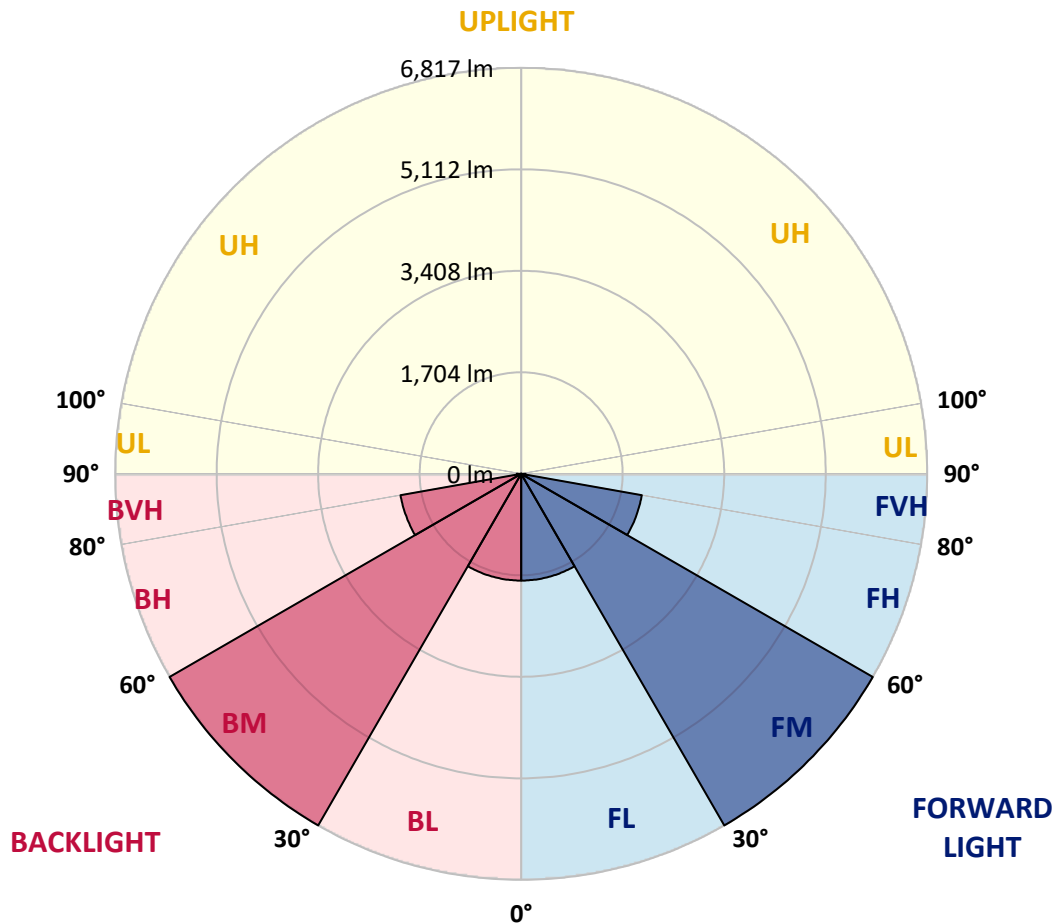
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1792.0	8.3			
FM	(30°-60°)	6816.6	31.7			
FH	(60°-80°)	2056.9	9.6			G2/5000
FVH	(80°-90°)	71.5	0.3			G1/100
BL	(0°-30°)	1792.0	8.3	B3/2500		
BM	(30°-60°)	6816.6	31.7	B4/8500		
BH	(60°-80°)	2056.9	9.6	B3/2500		G2/5000
BVH	(80°-90°)	71.5	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°	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7	4147.7
2.5°	4123.0	4153.3	4131.2	4150.5	4147.7	4139.5	4125.7	4117.5	4106.5	4123.0	4095.5
5°	4106.5	4131.2	4156.0	4123.0	4123.0	4106.5	4098.2	4081.7	4081.7	4078.9	4076.2
7.5°	4134.0	4109.2	4098.2	4103.7	4109.2	4073.4	4098.2	4065.2	4037.7	4056.9	4078.9
10°	4109.2	4120.2	4078.9	4098.2	4067.9	4073.4	4056.9	4078.9	4048.7	4048.7	4048.7
12.5°	4134.0	4103.7	4117.5	4103.7	4095.5	4048.7	4070.7	4045.9	4043.2	4070.7	4045.9
15°	4183.5	4134.0	4123.0	4095.5	4103.7	4103.7	4081.7	4084.4	4054.2	4070.7	4076.2
17.5°	4167.0	4139.5	4131.2	4098.2	4125.7	4134.0	4092.7	4065.2	4084.4	4081.7	4078.9
20°	4180.8	4191.8	4183.5	4189.0	4200.0	4178.0	4139.5	4101.0	4076.2	4112.0	4109.2
22.5°	4268.9	4257.8	4252.3	4246.8	4266.1	4288.1	4235.8	4175.3	4175.3	4200.0	4211.1
25°	4340.4	4337.7	4334.9	4359.7	4425.7	4425.7	4359.7	4282.6	4263.3	4279.9	4266.1
27.5°	4445.0	4475.3	4464.3	4508.3	4604.6	4626.7	4538.6	4447.8	4395.5	4376.2	4401.0
30°	4684.5	4648.7	4656.9	4703.7	4789.0	4860.6	4725.7	4629.4	4557.8	4555.1	4566.1
32.5°	4844.1	4871.6	4896.4	4940.4	5075.3	5130.3	4967.9	4811.1	4767.0	4742.3	4750.5
35°	5163.4	5138.6	5133.1	5177.1	5312.0	5402.8	5199.1	5061.5	5003.7	5058.8	5058.8
37.5°	5466.1	5397.3	5345.0	5402.8	5526.7	5537.7	5364.3	5290.0	5259.7	5323.0	5320.2
40°	5609.2	5603.7	5482.6	5515.7	5680.8	5697.3	5534.9	5446.8	5441.3	5523.9	5606.5
42.5°	5757.9	5705.6	5584.5	5606.5	5708.3	5713.8	5559.7	5534.9	5595.5	5675.3	5680.8
45°	5782.6	5738.6	5661.5	5606.5	5680.8	5697.3	5606.5	5623.0	5628.5	5724.8	5724.8
47.5°	5832.2	5826.7	5782.6	5741.3	5755.1	5741.3	5683.5	5708.3	5790.9	5837.7	5815.7
50°	5969.8	5912.0	5956.0	5920.2	5923.0	5961.5	5909.2	5934.0	5917.5	5876.2	5848.7
52.5°	6272.5	6245.0	6283.6	6308.3	6335.8	6423.9	6363.4	6231.3	6107.4	5997.3	5994.6
55°	6715.7	6734.9	6809.2	6935.9	7043.2	7183.6	6891.8	6575.3	6377.1	6203.7	6214.7
57.5°	7134.0	7120.3	7222.1	7511.1	7824.9	7896.4	7323.9	6872.5	6550.5	6440.4	6393.6
59°	6798.2	6864.3	7095.5	7417.5	7910.2	8014.8	7266.1	6630.3	6289.1	6066.1	6104.7
60°	6269.8	6294.6	6501.0	6949.6	7615.7	7794.6	6878.1	6256.0	5801.9	5672.5	5730.3
62.5°	4431.2	4412.0	4560.6	4926.7	5523.9	5766.1	5113.8	4676.2	4390.0	4246.8	4279.9
65°	2356.0	2444.1	2504.6	2733.1	3049.6	3305.5	3035.8	2845.9	2686.3	2567.9	2565.2
67.5°	1590.8	1579.8	1593.6	1645.9	1753.2	1824.8	1819.3	1723.0	1709.2	1687.2	1711.9
70°	1340.4	1334.9	1310.1	1310.1	1332.1	1348.6	1367.9	1378.9	1400.9	1428.5	1425.7
72.5°	1087.2	1073.4	1056.9	1048.6	1076.2	1084.4	1109.2	1120.2	1139.5	1136.7	1161.5
75°	718.4	718.4	737.6	759.6	767.9	784.4	787.2	820.2	820.2	825.7	803.7
77.5°	401.8	390.8	404.6	426.6	445.9	476.2	506.4	531.2	545.0	539.5	539.5
80°	233.9	233.9	247.7	272.5	297.3	324.8	346.8	366.1	379.8	374.3	363.3
82.5°	145.9	145.9	159.6	184.4	203.7	220.2	250.5	275.2	291.7	286.2	272.5
85°	74.3	74.3	90.8	107.3	132.1	143.1	140.4	129.4	126.6	112.8	112.8
87.5°	19.3	19.3	27.5	30.3	24.8	27.5	27.5	27.5	27.5	27.5	30.3
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)