

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: P14209

Luminaire Tested: **GAR-080-LED-E1-5-GLOW-CAGE**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14209
Test Lab: INNOVATION CENTER-P1
Issue Date: 6/29/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GAR-080-LED-E1-5-GLOW-CAGE
Description: MCGRAW-EDISON POST TOP WITH A TYPE V PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 4000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12359.1 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U5 - G3

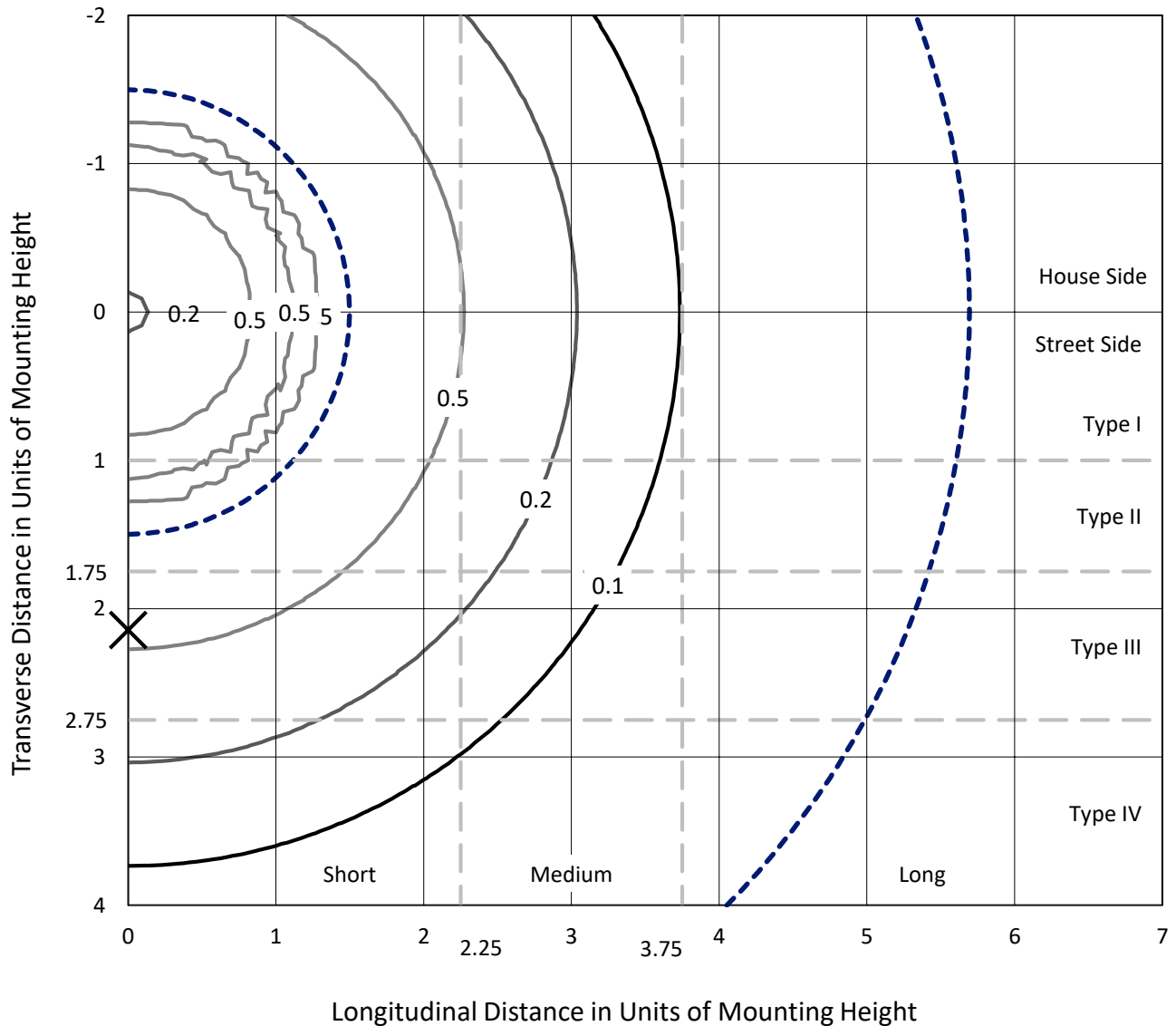
Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

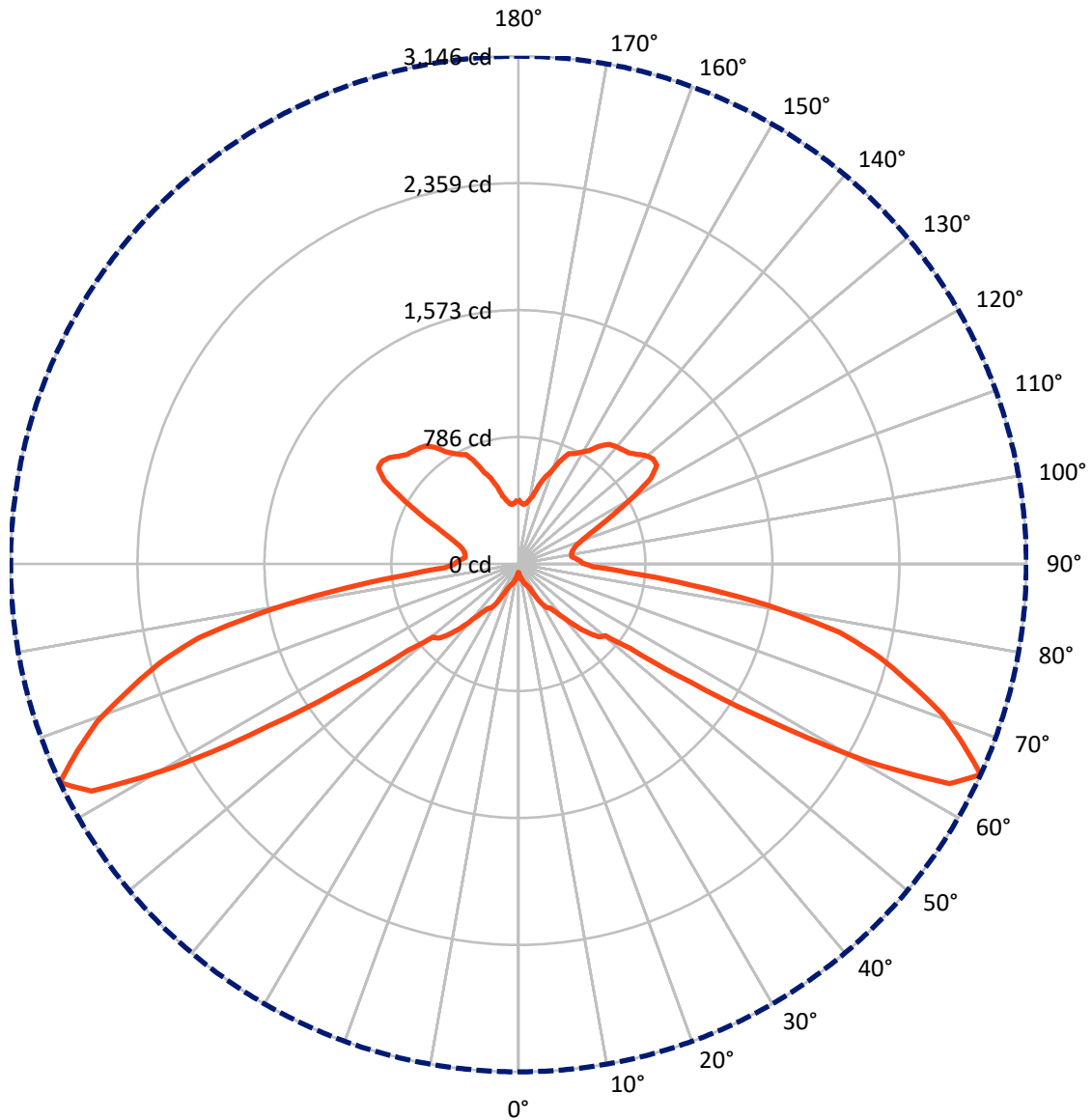
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.8 fc
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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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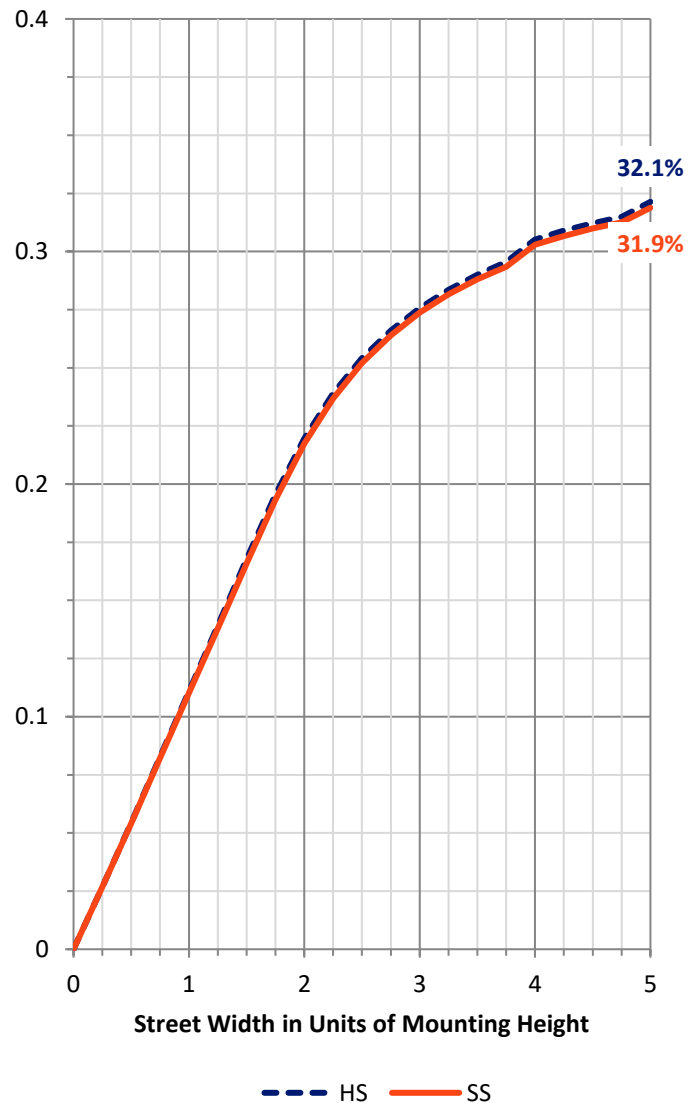
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4134.1	2045.5	6179.6
	% Fixture	33.4	16.6	50.0
Street Side	Lumens	4134.1	2045.5	6179.6
	% Fixture	33.4	16.6	50.0
Total	Lumens	8268.2	4091.0	12359.1
	% Fixture	66.9	33.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	33.0	0.3
20°-30°	89.7	0.7
30°-40°	221.4	1.8
40°-50°	464.6	3.8
50°-60°	1267.7	10.3
60°-70°	2915.3	23.6
70°-80°	2393.6	19.4
80°-90°	875.4	7.1
90°-100°	391.5	3.2
100°-110°	383.7	3.1
110°-120°	583.4	4.7
120°-130°	900.7	7.3
130°-140°	758.0	6.1
140°-150°	553.9	4.5
150°-160°	338.6	2.7
160°-170°	144.6	1.2
170°-180°	36.4	0.3
0°-90°	8268.2	66.9
0°-180°	12359.1	100.0



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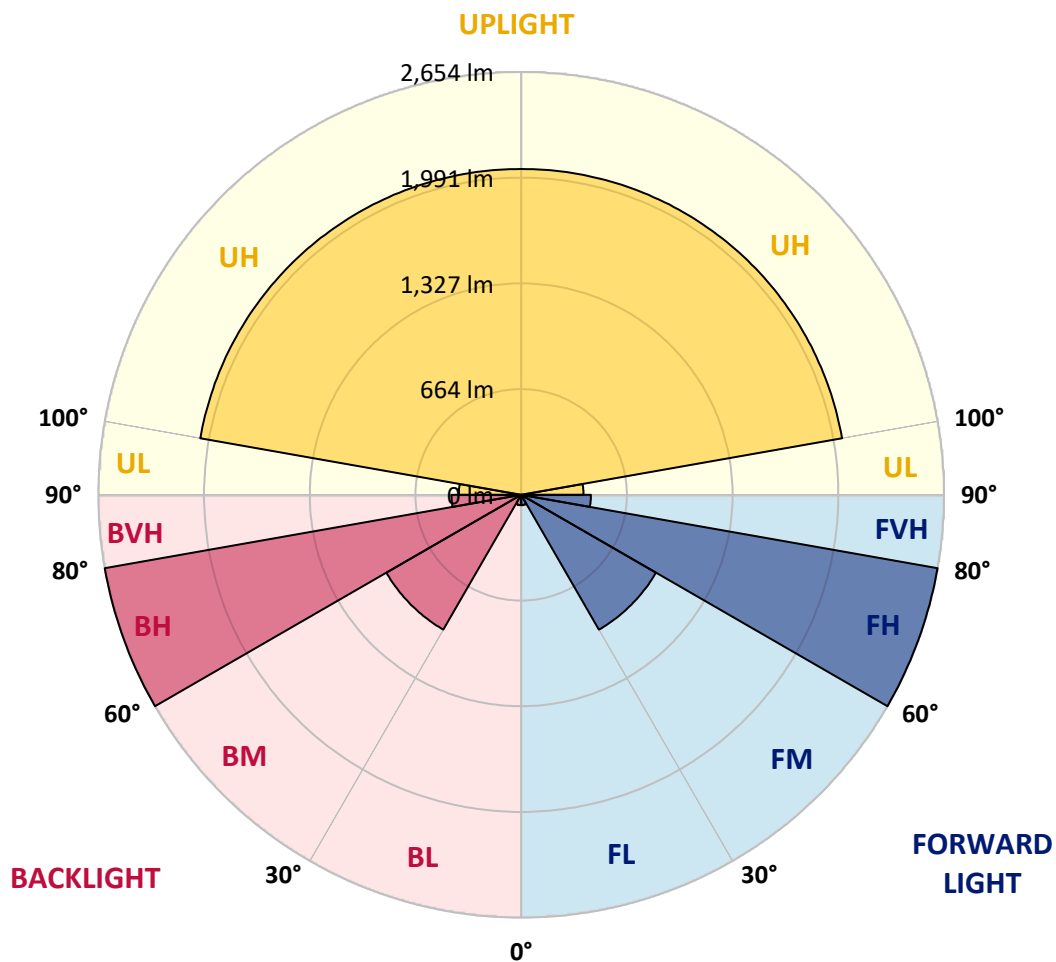
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	65.1	0.5			
FM (30°-60°)	976.9	7.9			
FH (60°-80°)	2654.4	21.5			G2/5000
FVH (80°-90°)	437.7	3.5			G3/500
BL (0°-30°)	65.1	0.5	B0/110		
BM (30°-60°)	976.9	7.9	B1/1000		
BH (60°-80°)	2654.4	21.5	B4/5000		G2/5000
BVH (80°-90°)	437.7	3.5			G3/500
UL (90°-100°)	391.5	3.2		U3/500	
UH (100°-180°)	2045.5	16.6		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	50.8
2.5°	59.0
5°	70.5
7.5°	82.0
10°	95.1
12.5°	98.4
15°	116.4
17.5°	126.3
20°	136.1
22.5°	150.9
25°	172.2
27.5°	224.7
30°	283.7
32.5°	321.4
35°	334.6
37.5°	378.8
40°	444.4
42.5°	531.4
45°	608.4
47.5°	674.0
50°	698.6
52.5°	865.9
55°	1287.4
57.5°	1838.4
60°	2481.3
62.5°	2996.3
65°	3145.5
67.5°	2968.4
70°	2784.7
72.5°	2540.4
75°	2312.4
77.5°	2032.0
80°	1579.3
82.5°	1089.0
85°	677.3
87.5°	459.2
90°	400.2
92.5°	380.5
95°	355.9
97.5°	331.3
100°	334.6
102.5°	341.1
105°	354.2
107.5°	378.8
110°	421.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	478.9
115°	567.4
117.5°	688.8
120°	831.5
122.5°	979.1
125°	1052.9
127.5°	1057.8
130°	1034.8
132.5°	997.1
135°	967.6
137.5°	956.1
140°	944.6
142.5°	928.2
145°	885.6
147.5°	829.8
150°	795.4
152.5°	767.5
155°	751.1
157.5°	685.5
160°	606.8
162.5°	560.9
165°	498.6
167.5°	431.3
170°	400.2
172.5°	375.6
175°	370.6
177.5°	382.1
180°	401.8

(END OF REPORT)