

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-3000**

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-3000  
Description: MCGRAW-EDISON POST TOP WITH A TYPE V PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE  
Light Source: [6] 3000K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11404.4 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U5 - G3

Input Watts (W): 101.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

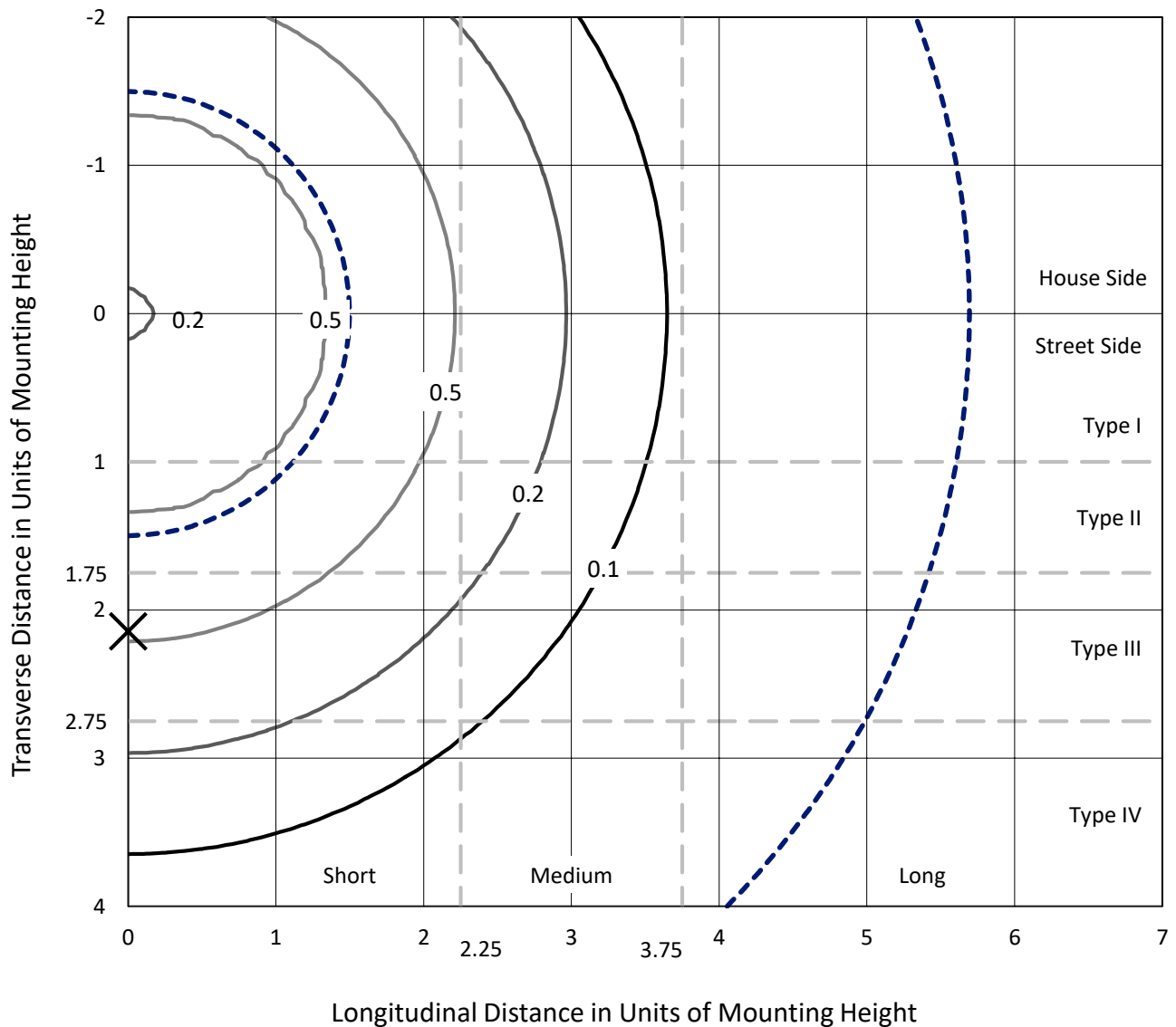


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

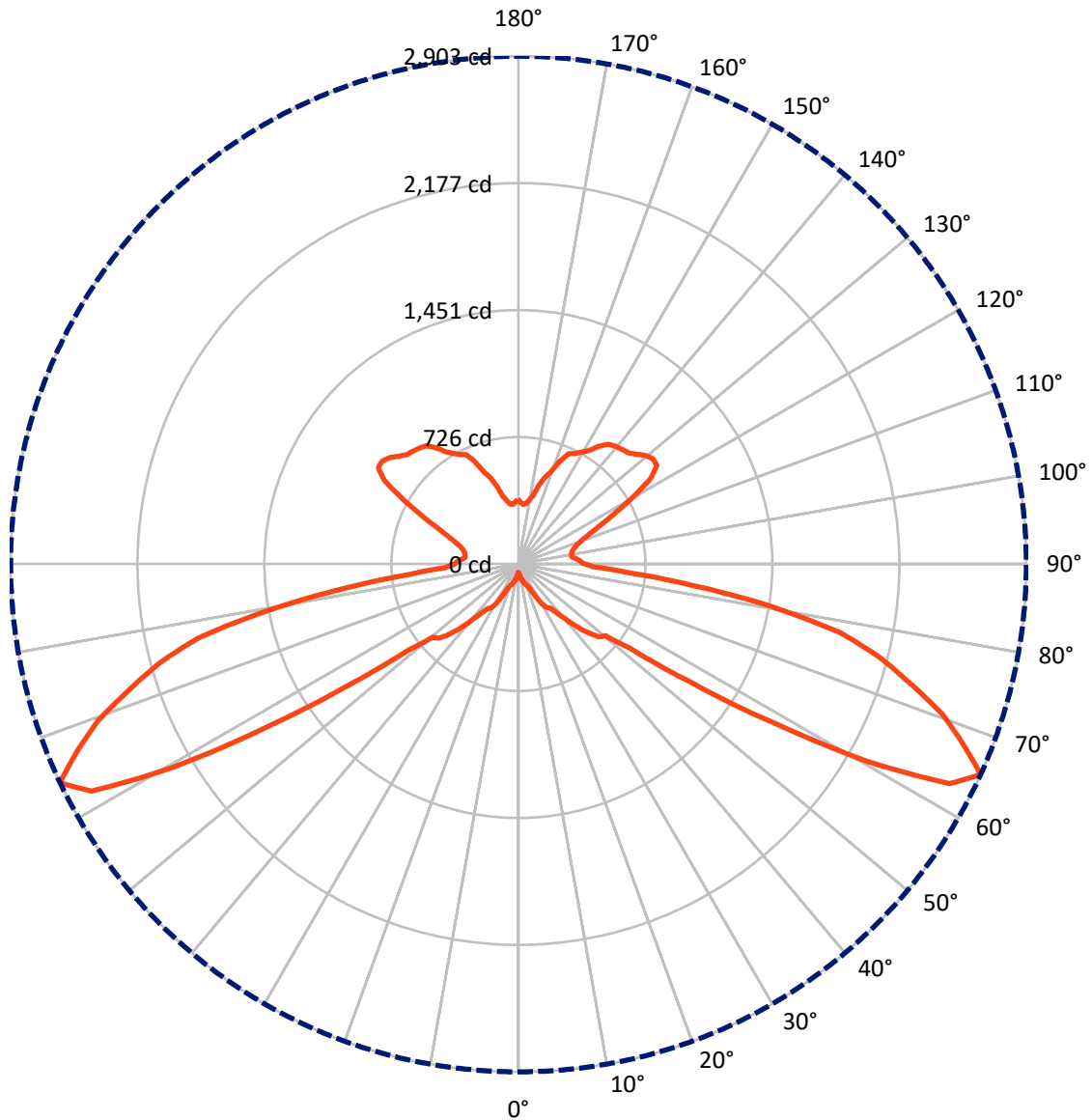


Based on 20 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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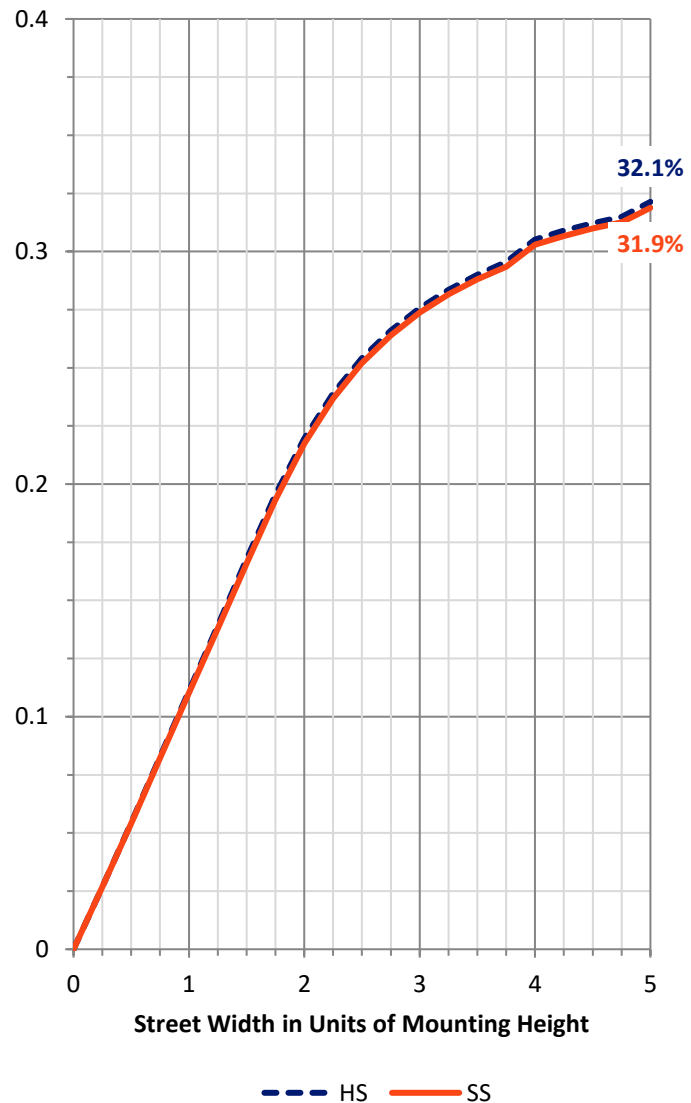
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3814.7	1887.5	5702.2
	% Fixture	33.4	16.6	50.0
<b>Street Side</b>	Lumens	3814.7	1887.5	5702.2
	% Fixture	33.4	16.6	50.0
<b>Total</b>	Lumens	7629.4	3775.0	11404.4
	% Fixture	66.9	33.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	30.5	0.3
20°-30°	82.7	0.7
30°-40°	204.3	1.8
40°-50°	428.8	3.8
50°-60°	1169.8	10.3
60°-70°	2690.0	23.6
70°-80°	2208.7	19.4
80°-90°	807.7	7.1
90°-100°	361.3	3.2
100°-110°	354.1	3.1
110°-120°	538.3	4.7
120°-130°	831.2	7.3
130°-140°	699.5	6.1
140°-150°	511.1	4.5
150°-160°	312.5	2.7
160°-170°	133.4	1.2
170°-180°	33.6	0.3
0°-90°	7629.4	66.9
0°-180°	11404.4	100.0



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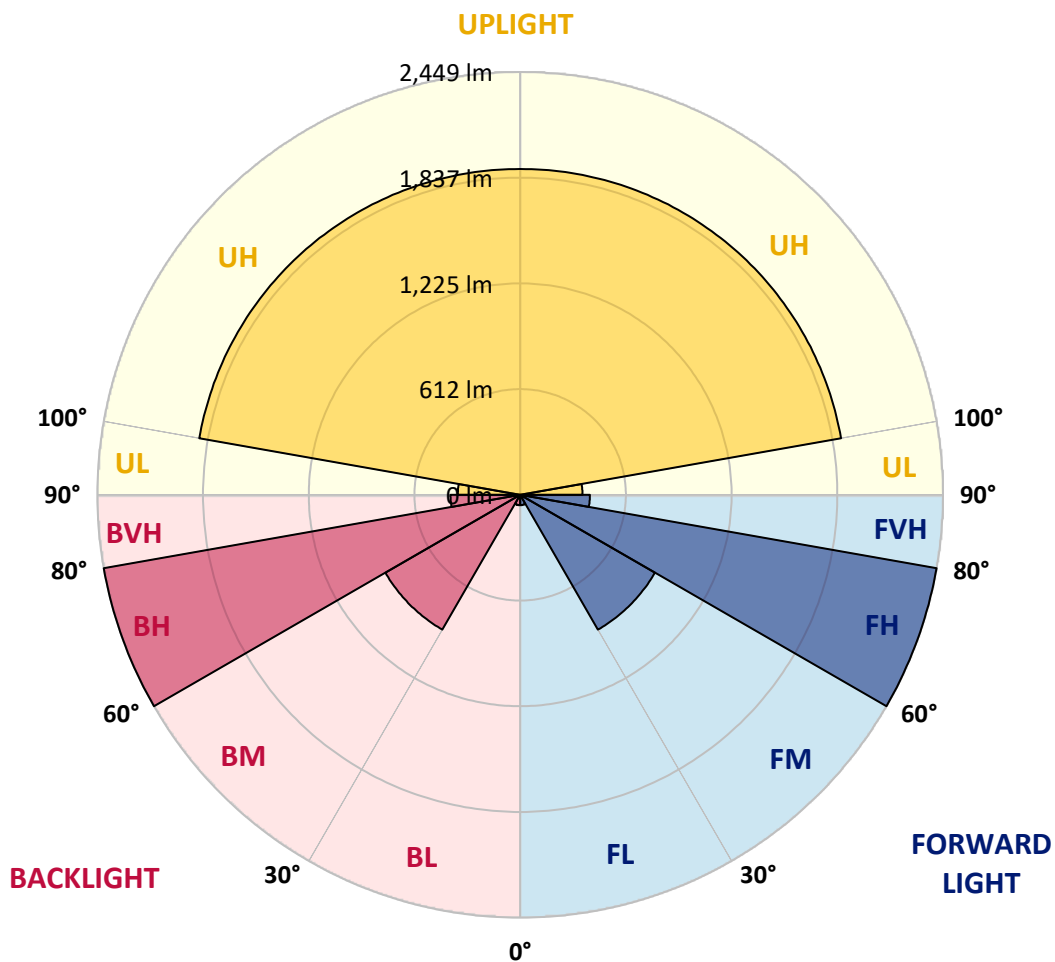
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	60.1	0.5			
FM (30°-60°)	901.4	7.9			
FH (60°-80°)	2449.4	21.5			G2/5000
FVH (80°-90°)	403.8	3.5			G3/500
BL (0°-30°)	60.1	0.5	B0/110		
BM (30°-60°)	901.4	7.9	B1/1000		
BH (60°-80°)	2449.4	21.5	B3/2500		G2/5000
BVH (80°-90°)	403.8	3.5			G3/500
UL (90°-100°)	361.3	3.2		U3/500	
UH (100°-180°)	1887.5	16.6		U5	

**BUG Rating: B3-U5-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	47.0
2.5°	54.4
5°	65.1
7.5°	75.7
10°	87.8
12.5°	90.8
15°	107.5
17.5°	116.5
20°	125.6
22.5°	139.2
25°	159.0
27.5°	207.3
30°	261.8
32.5°	296.6
35°	308.7
37.5°	349.6
40°	410.1
42.5°	490.3
45°	561.4
47.5°	622.0
50°	644.7
52.5°	799.0
55°	1187.9
57.5°	1696.5
60°	2289.6
62.5°	2764.8
65°	2902.5
67.5°	2739.0
70°	2569.6
72.5°	2344.1
75°	2133.8
77.5°	1875.0
80°	1457.4
82.5°	1004.8
85°	624.9
87.5°	423.7
90°	369.3
92.5°	351.2
95°	328.4
97.5°	305.8
100°	308.7
102.5°	314.8
105°	326.8
107.5°	349.6
110°	388.9



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	441.9
115°	523.5
117.5°	635.5
120°	767.2
122.5°	903.4
125°	971.6
127.5°	976.1
130°	954.9
132.5°	920.1
135°	892.8
137.5°	882.3
140°	871.7
142.5°	856.6
145°	817.1
147.5°	765.8
150°	734.0
152.5°	708.2
155°	693.1
157.5°	632.6
160°	559.9
162.5°	517.6
165°	460.0
167.5°	398.0
170°	369.3
172.5°	346.5
175°	342.0
177.5°	352.6
180°	370.8

(END OF REPORT)