

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-5700**

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-5700
Description: MCGRAW-EDISON POST TOP WITH A TYPE V PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 5700K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11965.7 lumens
Efficiency: N/A
Efficacy: 118.1 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

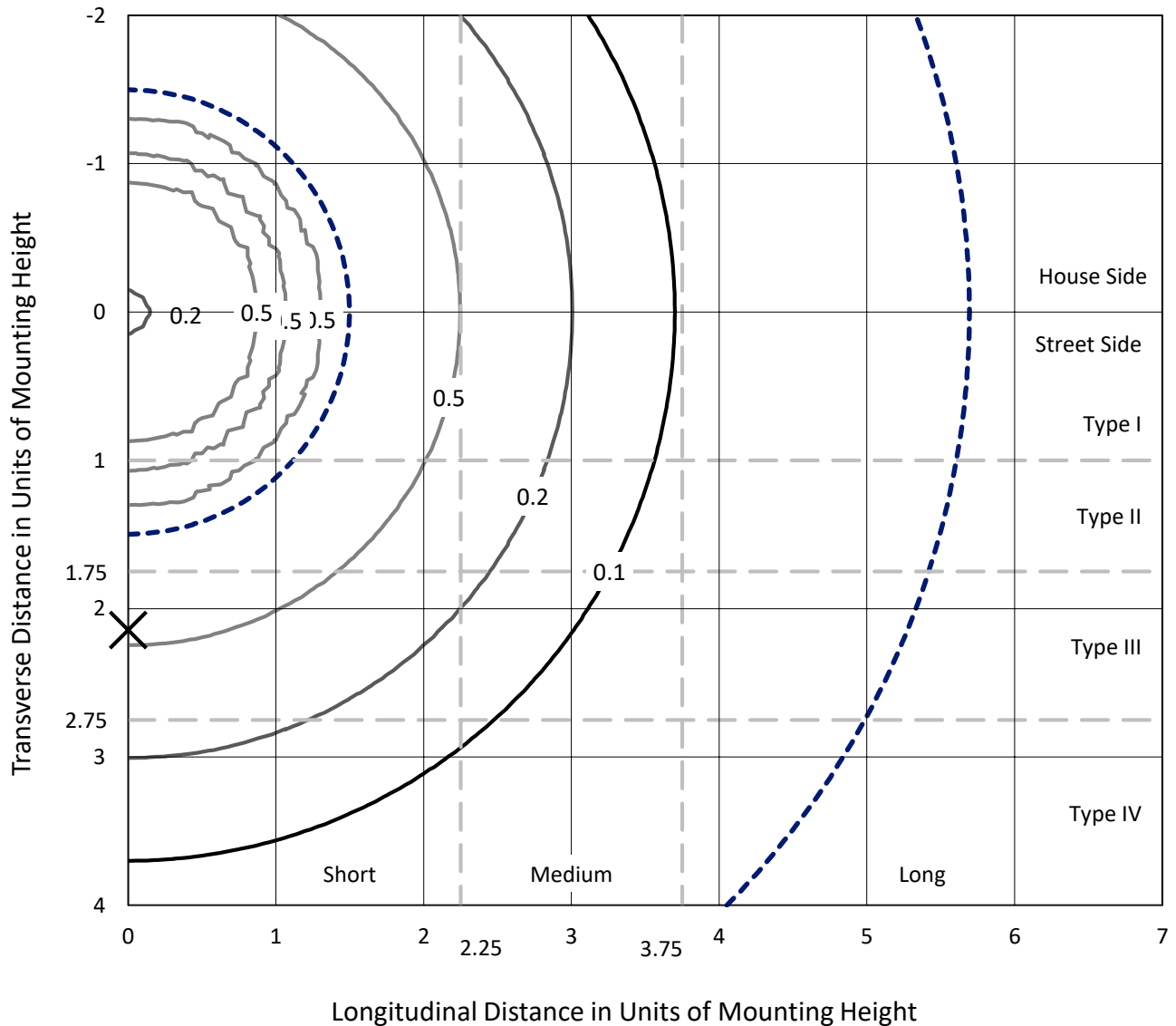


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

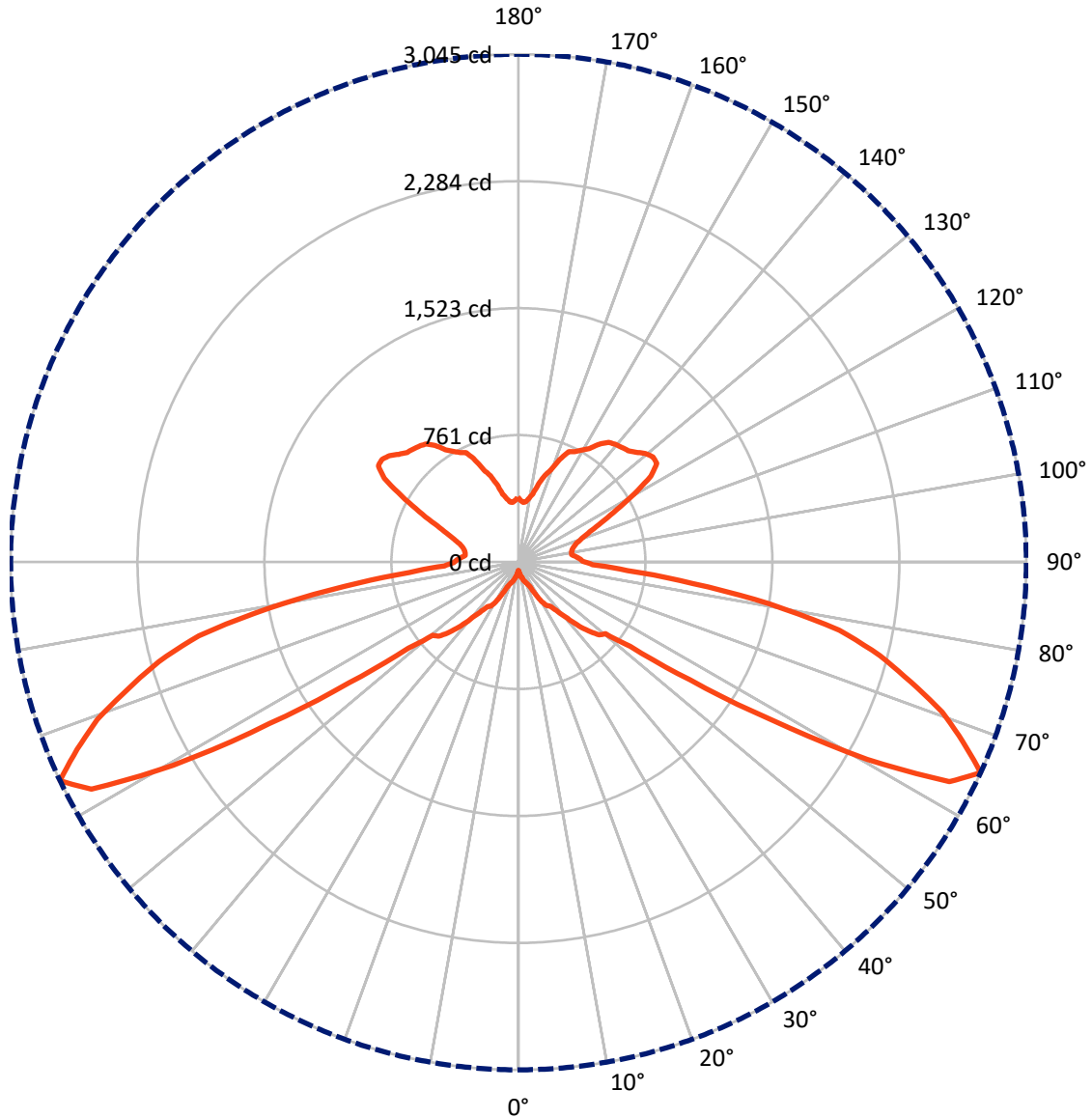


Based on 20 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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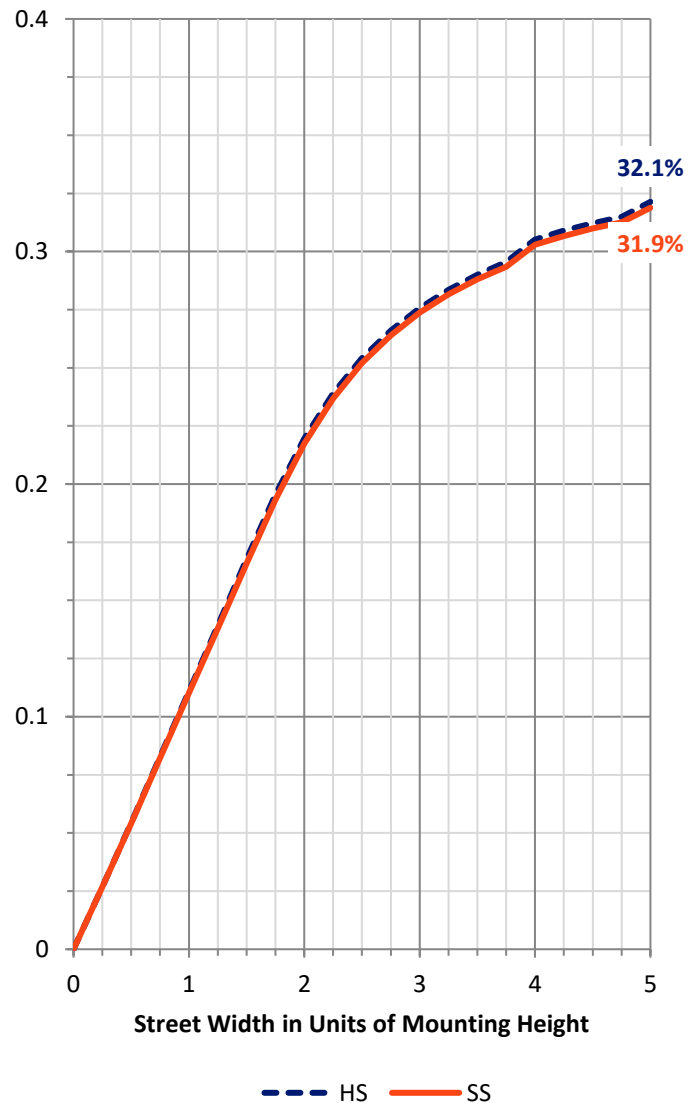
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4002.5	1980.4	5982.8
	% Fixture	33.4	16.6	50.0
Street Side	Lumens	4002.5	1980.4	5982.8
	% Fixture	33.4	16.6	50.0
Total	Lumens	8004.9	3960.8	11965.7
	% Fixture	66.9	33.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	32.0	0.3
20°-30°	86.8	0.7
30°-40°	214.4	1.8
40°-50°	449.9	3.8
50°-60°	1227.3	10.3
60°-70°	2822.5	23.6
70°-80°	2317.4	19.4
80°-90°	847.4	7.1
90°-100°	379.1	3.2
100°-110°	371.5	3.1
110°-120°	564.8	4.7
120°-130°	872.1	7.3
130°-140°	733.9	6.1
140°-150°	536.3	4.5
150°-160°	327.8	2.7
160°-170°	140.0	1.2
170°-180°	35.2	0.3
0°-90°	8004.9	66.9
0°-180°	11965.7	100.0



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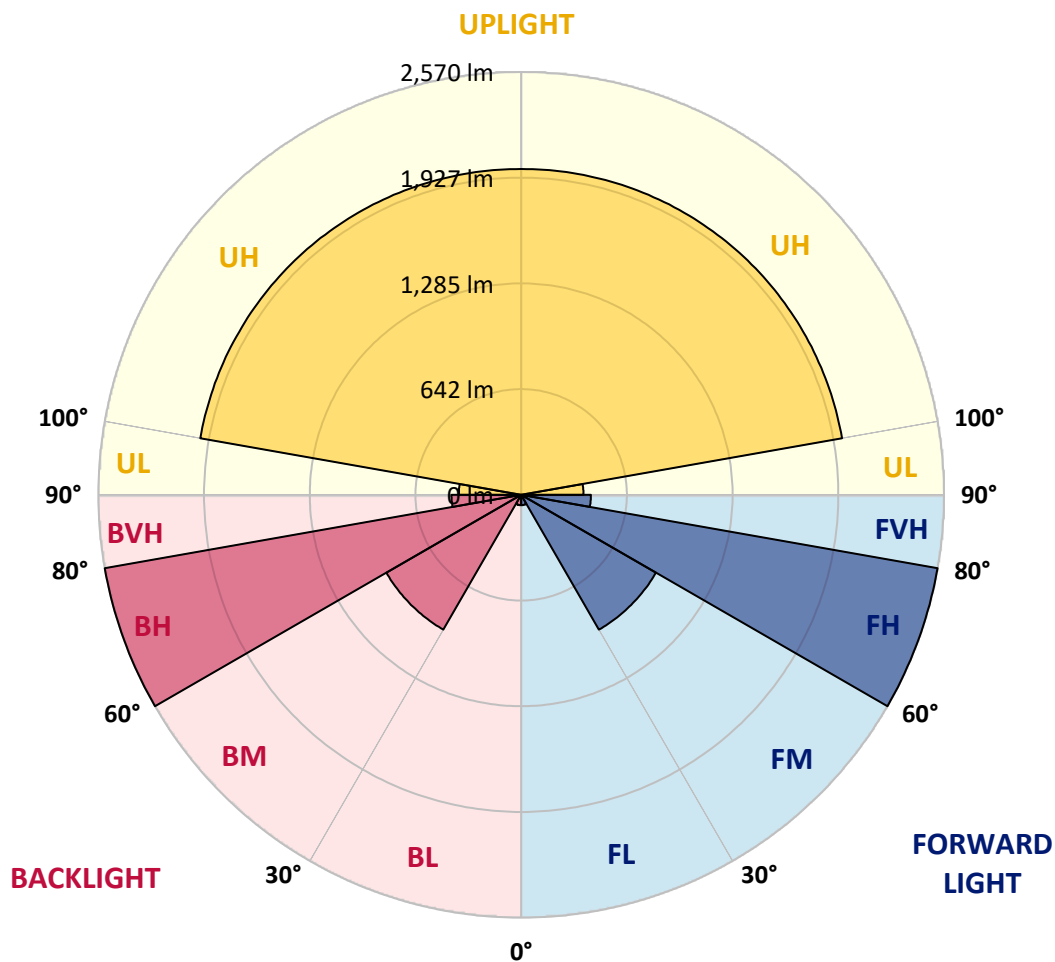
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.0	0.5			
FM (30°-60°)	945.8	7.9			
FH (60°-80°)	2570.0	21.5			G2/5000
FVH (80°-90°)	423.7	3.5			G3/500
BL (0°-30°)	63.0	0.5	B0/110		
BM (30°-60°)	945.8	7.9	B1/1000		
BH (60°-80°)	2570.0	21.5	B4/5000		G2/5000
BVH (80°-90°)	423.7	3.5			G3/500
UL (90°-100°)	379.1	3.2		U3/500	
UH (100°-180°)	1980.4	16.6		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	49.3
2.5°	57.1
5°	68.2
7.5°	79.3
10°	92.1
12.5°	95.3
15°	112.7
17.5°	122.3
20°	131.8
22.5°	146.0
25°	166.7
27.5°	217.5
30°	274.6
32.5°	311.1
35°	323.9
37.5°	366.7
40°	430.3
42.5°	514.5
45°	589.0
47.5°	652.6
50°	676.3
52.5°	838.4
55°	1246.4
57.5°	1779.9
60°	2402.4
62.5°	2901.0
65°	3045.4
67.5°	2874.0
70°	2696.1
72.5°	2459.5
75°	2238.8
77.5°	1967.2
80°	1529.0
82.5°	1054.3
85°	655.7
87.5°	444.5
90°	387.4
92.5°	368.4
95°	344.6
97.5°	320.7
100°	323.9
102.5°	330.2
105°	343.0
107.5°	366.7
110°	408.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	463.6
115°	549.4
117.5°	666.9
120°	805.0
122.5°	947.9
125°	1019.4
127.5°	1024.1
130°	1001.9
132.5°	965.4
135°	936.8
137.5°	925.7
140°	914.6
142.5°	898.7
145°	857.5
147.5°	803.4
150°	770.1
152.5°	743.0
155°	727.2
157.5°	663.7
160°	587.5
162.5°	543.1
165°	482.7
167.5°	417.6
170°	387.4
172.5°	363.7
175°	358.9
177.5°	370.0
180°	389.1

(END OF REPORT)