

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: P14363

Luminaire Tested: **GAR-080-LED-E1-5-SPUN-CAGE-5700**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14363
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-SPUN-CAGE-5700
Description: MCGRAW-EDISON POST TOP WITH A TYPE V SOLID TOP
REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 5700K LED
Ballast/Driver: [2]

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9663.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.29' x H: 1.25')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U4 - 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

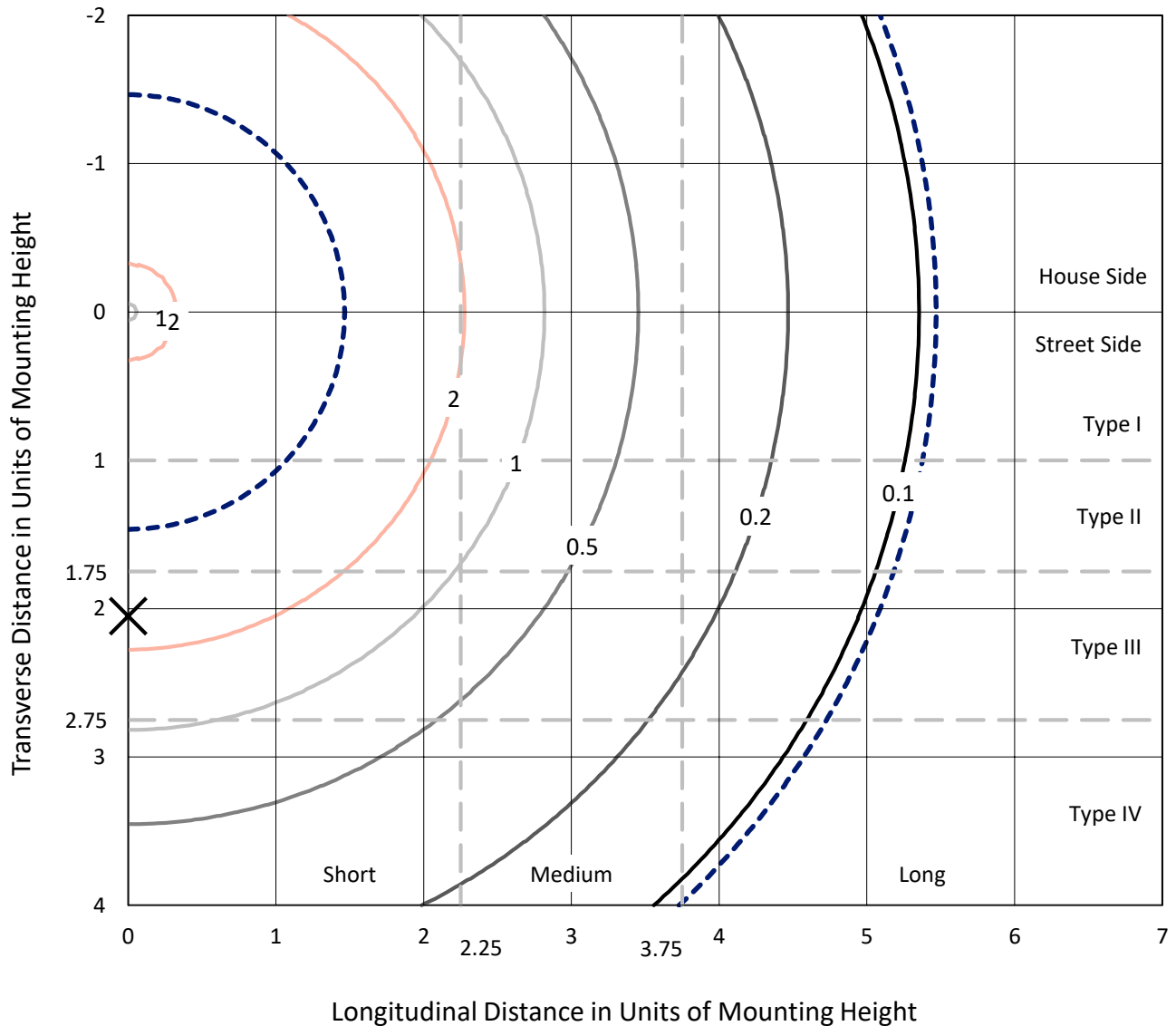


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

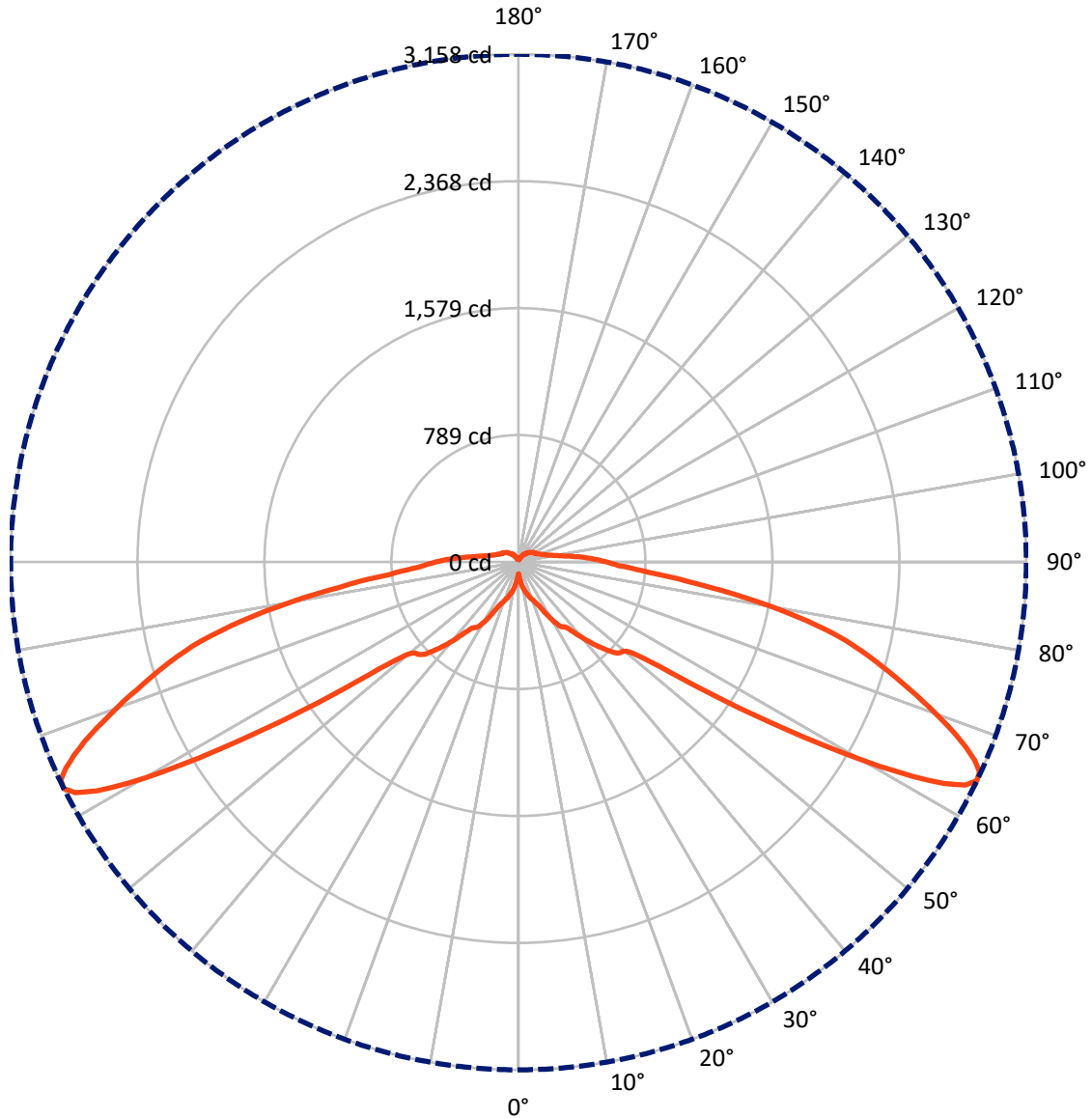


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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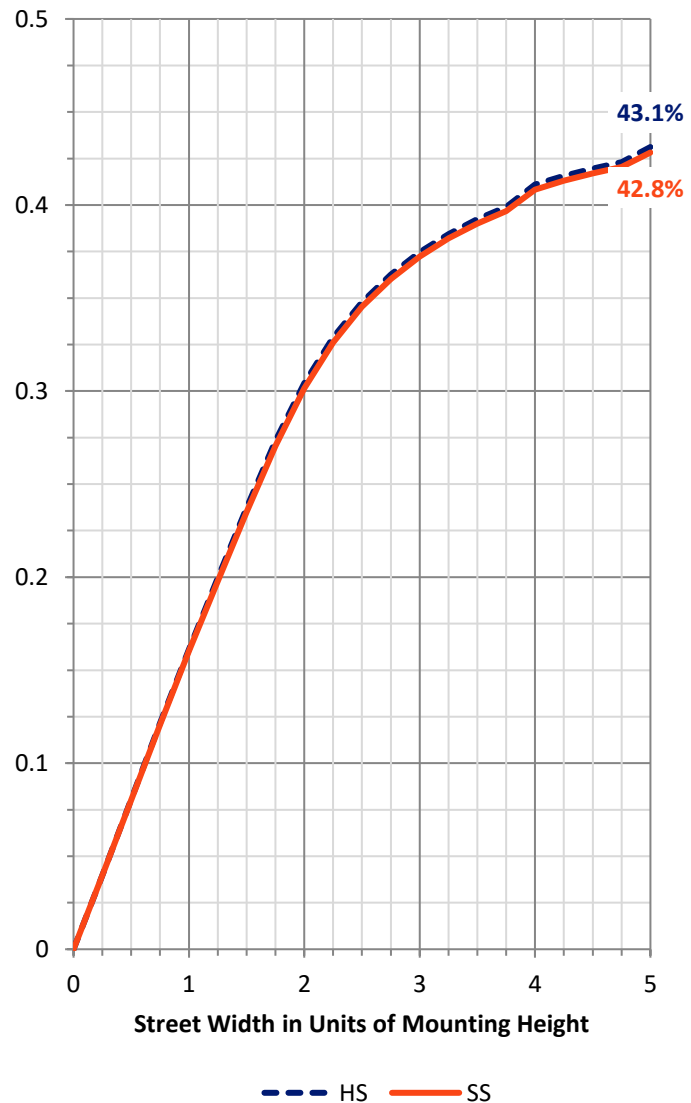
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4374.3	457.3	4831.6
	% Fixture	45.3	4.7	50.0
Street Side	Lumens	4374.3	457.3	4831.6
	% Fixture	45.3	4.7	50.0
Total	Lumens	8748.5	914.7	9663.2
	% Fixture	90.5	9.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	60.6	0.6
20°-30°	150.2	1.6
30°-40°	322.6	3.3
40°-50°	601.0	6.2
50°-60°	1388.2	14.4
60°-70°	2947.0	30.5
70°-80°	2292.1	23.7
80°-90°	974.6	10.1
90°-100°	396.5	4.1
100°-110°	184.2	1.9
110°-120°	123.3	1.3
120°-130°	93.0	1.0
130°-140°	61.0	0.6
140°-150°	34.7	0.4
150°-160°	14.9	0.2
160°-170°	5.7	0.1
170°-180°	1.4	0.0
0°-90°	8748.5	90.5
0°-180°	9663.2	100.0



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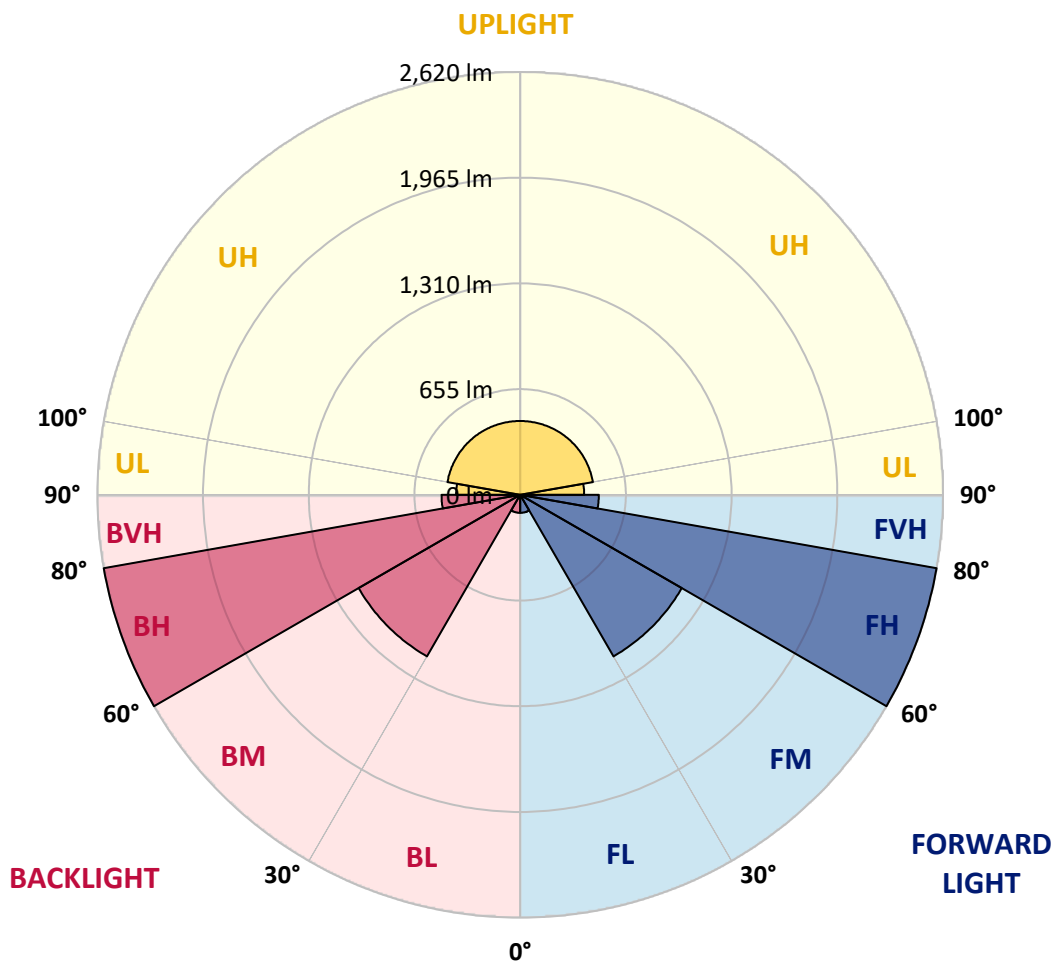
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.6	1.2			
FM (30°-60°)	1155.9	12.0			
FH (60°-80°)	2619.5	27.1			G2/5000
FVH (80°-90°)	487.3	5.0			G3/500
BL (0°-30°)	111.6	1.2	B1/500		
BM (30°-60°)	1155.9	12.0	B2/2500		
BH (60°-80°)	2619.5	27.1	B4/5000		G2/5000
BVH (80°-90°)	487.3	5.0			G3/500
UL (90°-100°)	396.5	4.1		U3/500	
UH (100°-180°)	457.3	4.7		U3/500	

BUG Rating: B4-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	72.2
2.5°	92.9
5°	113.5
7.5°	139.3
10°	165.1
12.5°	189.6
15°	207.7
17.5°	232.2
20°	250.3
22.5°	274.8
25°	303.2
27.5°	361.2
30°	425.7
31°	441.2
32°	465.7
33°	482.5
34°	488.9
35°	495.4
36°	509.6
37°	534.1
38°	562.4
39°	592.1
40°	626.9
41°	659.2
42°	691.4
43°	726.3
44°	753.4
45°	786.9
46°	817.9
47°	837.2
48°	848.8
49°	854.0
50°	870.8
51°	912.0
52°	983.0
53°	1087.5
54°	1244.9
55°	1434.5
56°	1638.3
57°	1855.0
58°	2082.1
59°	2332.3
60°	2577.4
61°	2798.0
62°	2983.8



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CANDELA DISTRIBUTION (continued):

	0°
63°	3106.3
64°	3157.9
65°	3151.5
66°	3093.4
67°	3012.2
68°	2921.8
69°	2818.6
70°	2711.6
71°	2608.4
72°	2502.6
73°	2402.0
74°	2303.9
75°	2200.7
76°	2096.2
77°	1969.8
78°	1829.2
79°	1680.9
80°	1520.9
82.5°	1122.3
85°	807.5
87.5°	621.8
90°	531.5
92.5°	446.3
95°	353.5
97.5°	273.5
100°	225.8
102.5°	190.9
105°	169.0
107.5°	152.2
110°	140.6
112.5°	130.3
115°	121.3
117.5°	118.7
120°	110.9
122.5°	110.9
125°	103.2
127.5°	98.0
130°	92.9
132.5°	85.1
135°	80.0
137.5°	68.4
140°	67.1
142.5°	60.6
145°	55.5
147.5°	49.0



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CANDELA DISTRIBUTION (continued):

	0°
150°	41.3
152.5°	37.4
155°	29.7
157.5°	27.1
160°	23.2
162.5°	20.6
165°	19.4
167.5°	19.4
170°	16.8
172.5°	14.2
175°	12.9
177.5°	12.9
180°	12.9

(END OF REPORT)