

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: P14210

Luminaire Tested: **GAR-080-LED-E1-5-GLOW-X-5700**

Issue Date: 6/29/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14210  
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-X-5700  
Description: MCGRAW-EDISON POST TOP WITH A TYPE V PRISMATIC REFRACTOR  
Light Source: [6] 5700K LEDS  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16782.4 lumens  
Efficiency: N/A  
Efficacy: 165.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.21')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U5 - G5

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

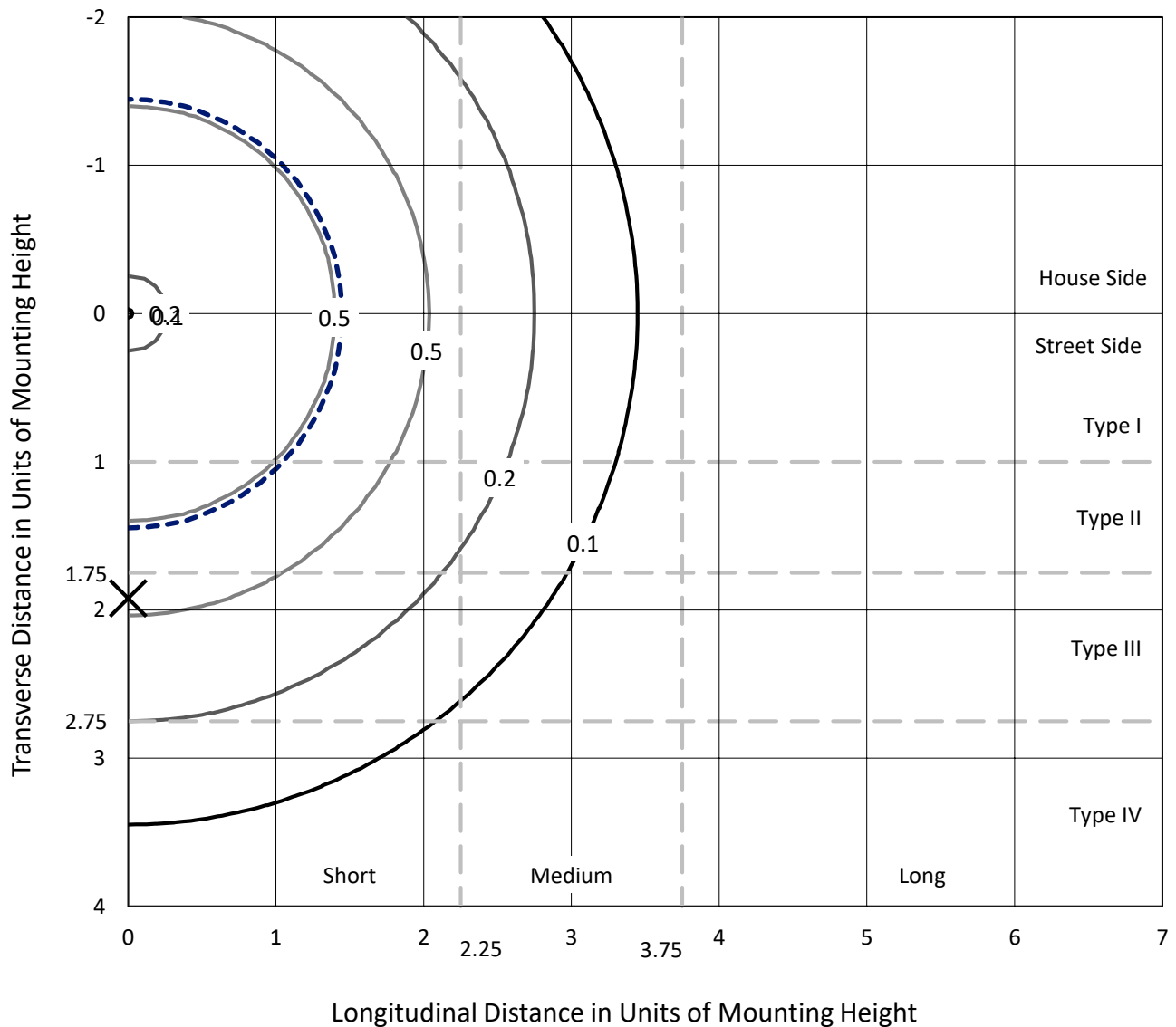


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### Iso-Footcandle Lines of Horizontal Illumination

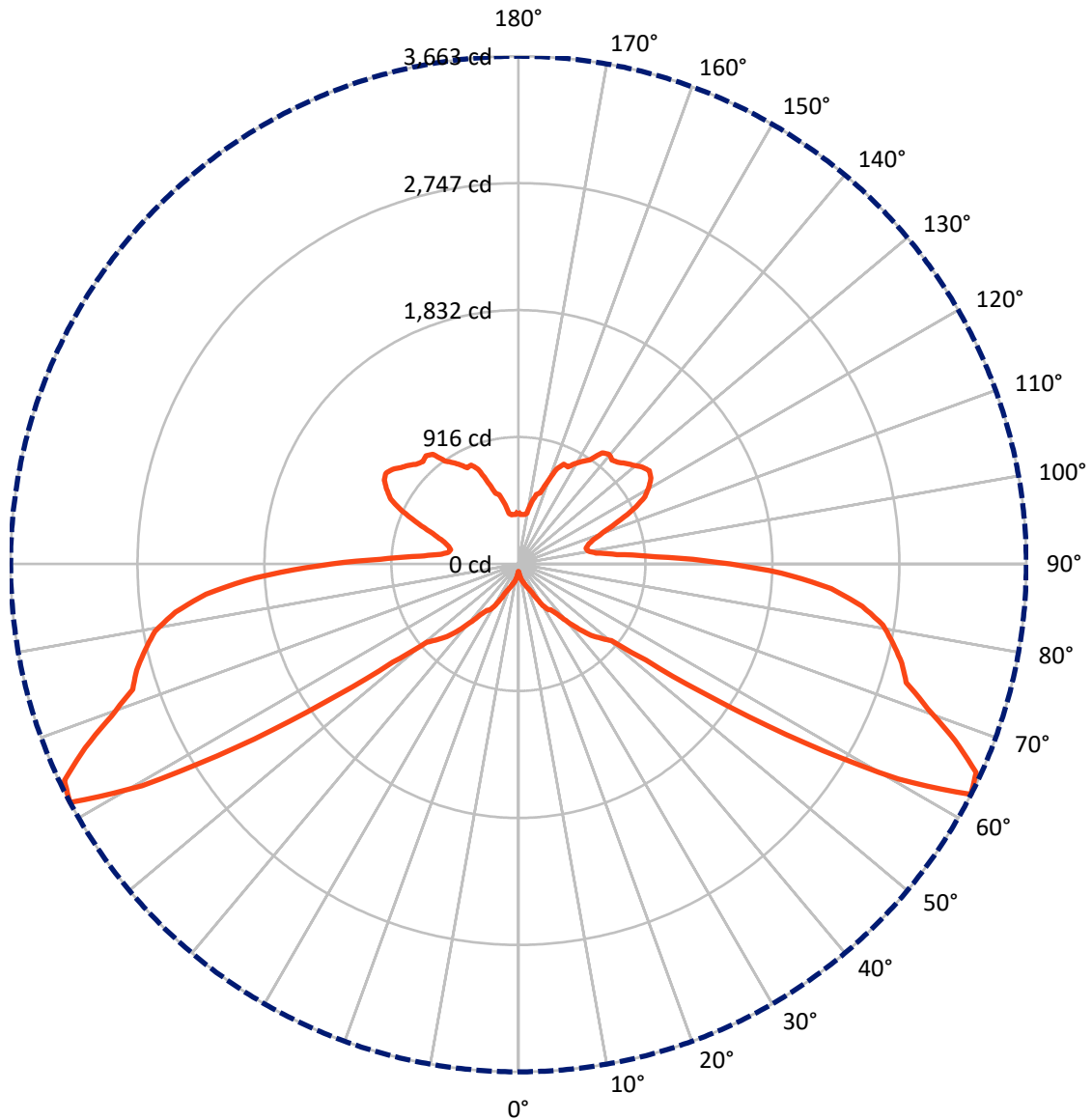
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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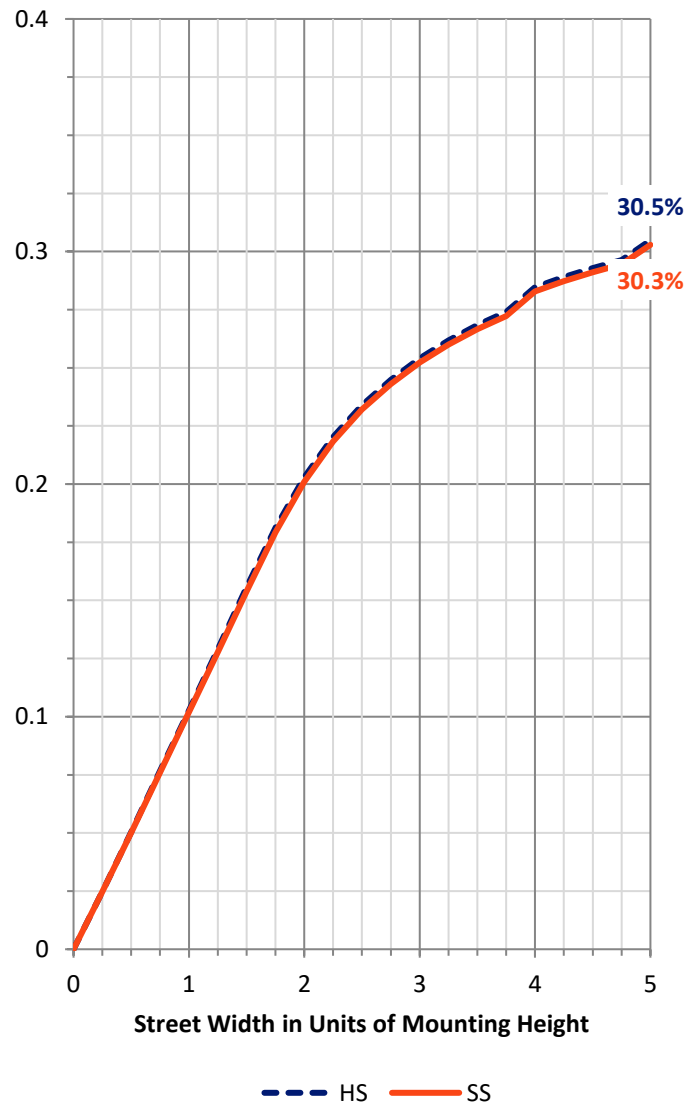
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5743.3	2647.9	8391.2
	% Fixture	34.2	15.8	50.0
<b>Street Side</b>	Lumens	5743.3	2647.9	8391.2
	% Fixture	34.2	15.8	50.0
<b>Total</b>	Lumens	11486.5	5295.9	16782.4
	% Fixture	68.4	31.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.5	0.1
10°-20°	41.4	0.2
20°-30°	114.8	0.7
30°-40°	270.6	1.6
40°-50°	561.5	3.3
50°-60°	1659.2	9.9
60°-70°	3430.0	20.4
70°-80°	3025.3	18.0
80°-90°	2375.1	14.2
90°-100°	886.8	5.3
100°-110°	574.1	3.4
110°-120°	891.1	5.3
120°-130°	1015.5	6.1
130°-140°	806.8	4.8
140°-150°	586.8	3.5
150°-160°	354.8	2.1
160°-170°	145.3	0.9
170°-180°	34.5	0.2
0°-90°	11486.5	68.4
0°-180°	16782.4	100.0



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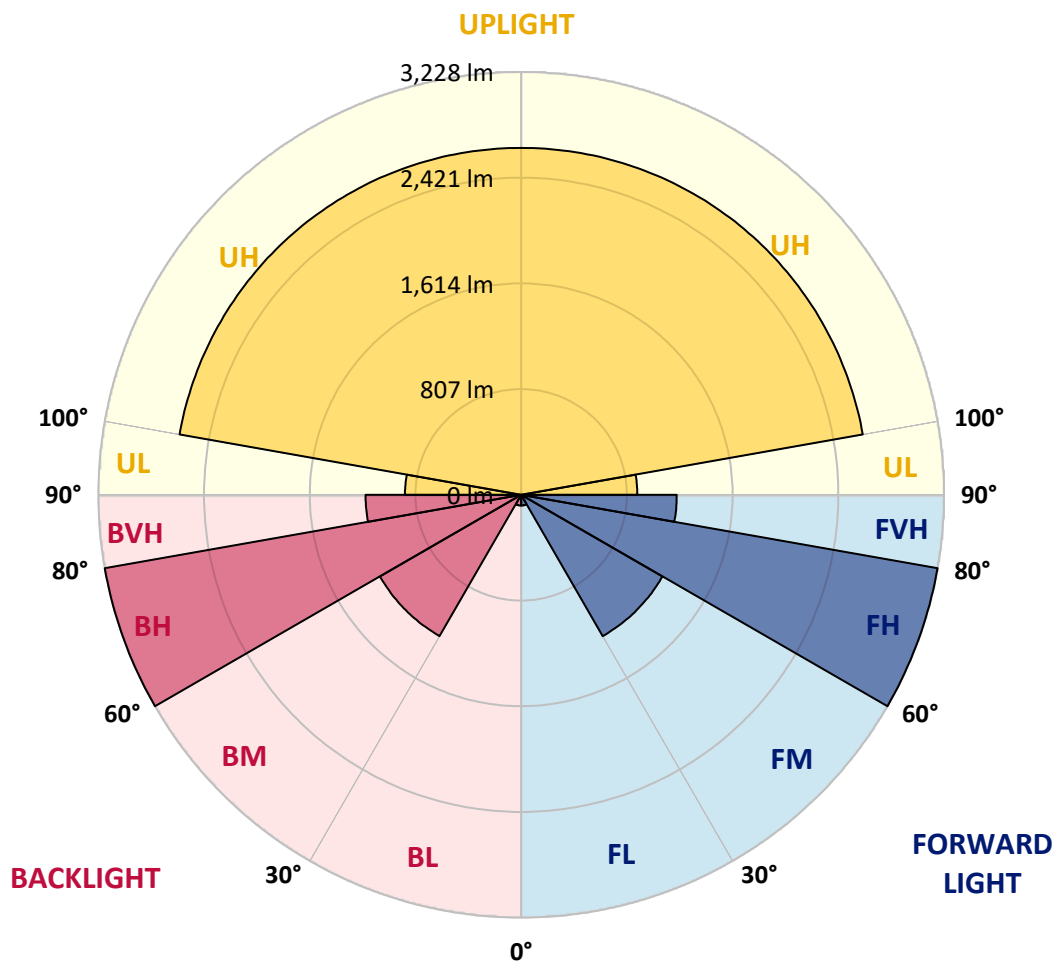
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	82.4	0.5			
FM (30°-60°)	1245.7	7.4			
FH (60°-80°)	3227.7	19.2			G2/5000
FVH (80°-90°)	1187.5	7.1			G5
BL (0°-30°)	82.4	0.5	B0/110		
BM (30°-60°)	1245.7	7.4	B2/2500		
BH (60°-80°)	3227.7	19.2	B4/5000		G2/5000
BVH (80°-90°)	1187.5	7.1			G5
UL (90°-100°)	886.8	5.3		U4/1000	
UH (100°-180°)	2647.9	15.8		U5	

**BUG Rating: B4-U5-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	53.9
2.5°	65.1
5°	77.8
7.5°	95.3
10°	111.2
12.5°	128.6
15°	141.3
17.5°	157.3
20°	177.9
22.5°	198.5
25°	227.0
27.5°	284.2
30°	347.8
32.5°	390.6
35°	406.5
37.5°	463.6
40°	549.4
42.5°	641.5
45°	733.6
47.5°	798.6
50°	868.6
52.5°	1151.2
55°	1716.5
57.5°	2429.3
60°	3150.2
62.5°	3663.1
65°	3628.1
67.5°	3394.8
70°	3132.8
72.5°	2924.7
75°	2856.4
77.5°	2764.3
80°	2665.9
82.5°	2497.6
85°	2264.2
87.5°	1900.6
90°	1435.4
92.5°	995.5
95°	713.0
97.5°	565.3
100°	511.2
102.5°	500.1
105°	522.4
107.5°	568.4
110°	652.6



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	776.5
115°	920.9
117.5°	1033.7
120°	1090.8
122.5°	1140.1
125°	1159.1
127.5°	1135.3
130°	1095.6
132.5°	1063.9
135°	1027.4
137.5°	1009.8
140°	1027.4
142.5°	1003.5
145°	912.9
147.5°	873.3
150°	832.0
152.5°	786.0
155°	790.8
157.5°	741.5
160°	627.2
162.5°	536.6
165°	517.7
167.5°	452.5
170°	370.0
172.5°	358.9
175°	358.9
177.5°	357.2
180°	381.1

(END OF REPORT)