

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-3000**

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15994.9 lumens
Efficiency: N/A
Efficacy: 157.9 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

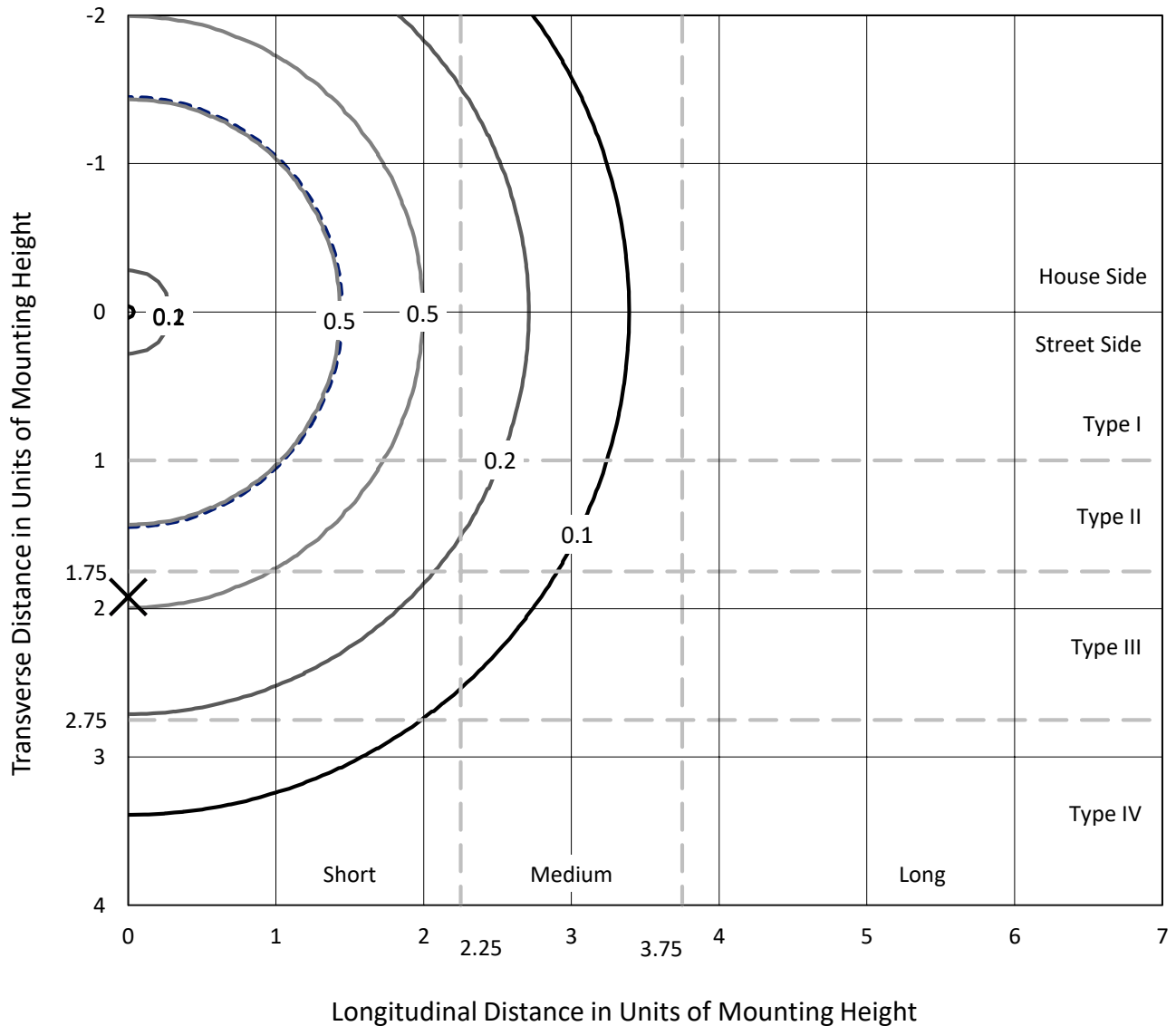


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Iso-Footcandle Lines of Horizontal Illumination

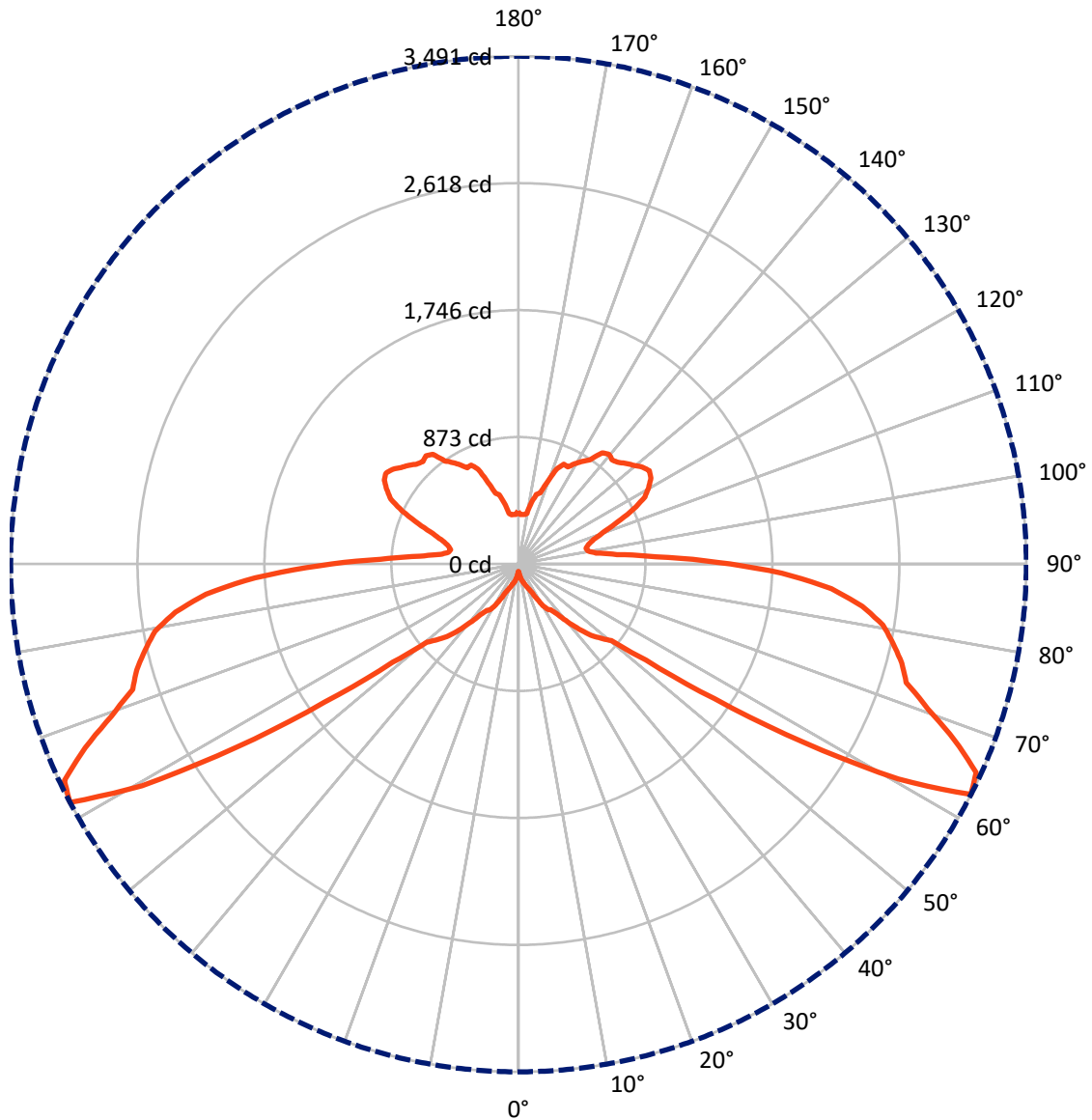
× Max cd
 - - - 1/2 Max cd



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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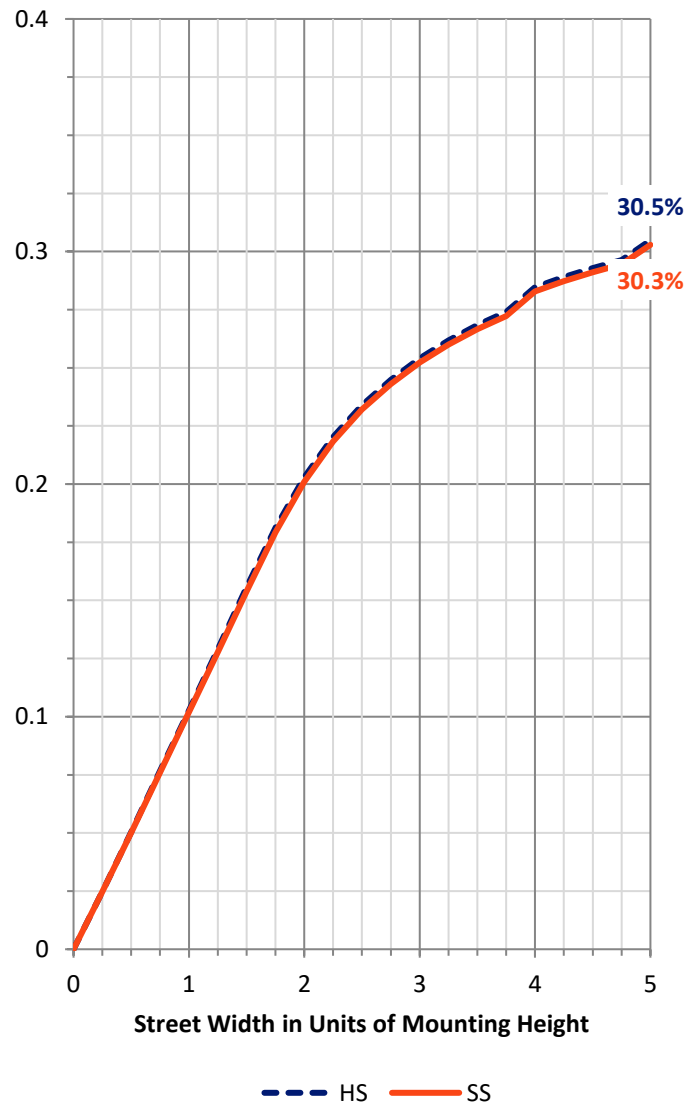
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5473.8	2523.7	7997.4
	% Fixture	34.2	15.8	50.0
Street Side	Lumens	5473.8	2523.7	7997.4
	% Fixture	34.2	15.8	50.0
Total	Lumens	10947.5	5047.3	15994.9
	% Fixture	68.4	31.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.1
10°-20°	39.5	0.2
20°-30°	109.4	0.7
30°-40°	257.9	1.6
40°-50°	535.1	3.3
50°-60°	1581.3	9.9
60°-70°	3269.1	20.4
70°-80°	2883.5	18.0
80°-90°	2263.7	14.2
90°-100°	845.2	5.3
100°-110°	547.2	3.4
110°-120°	849.3	5.3
120°-130°	967.9	6.1
130°-140°	768.9	4.8
140°-150°	559.3	3.5
150°-160°	338.2	2.1
160°-170°	138.5	0.9
170°-180°	32.9	0.2
0°-90°	10947.5	68.4
0°-180°	15994.9	100.0



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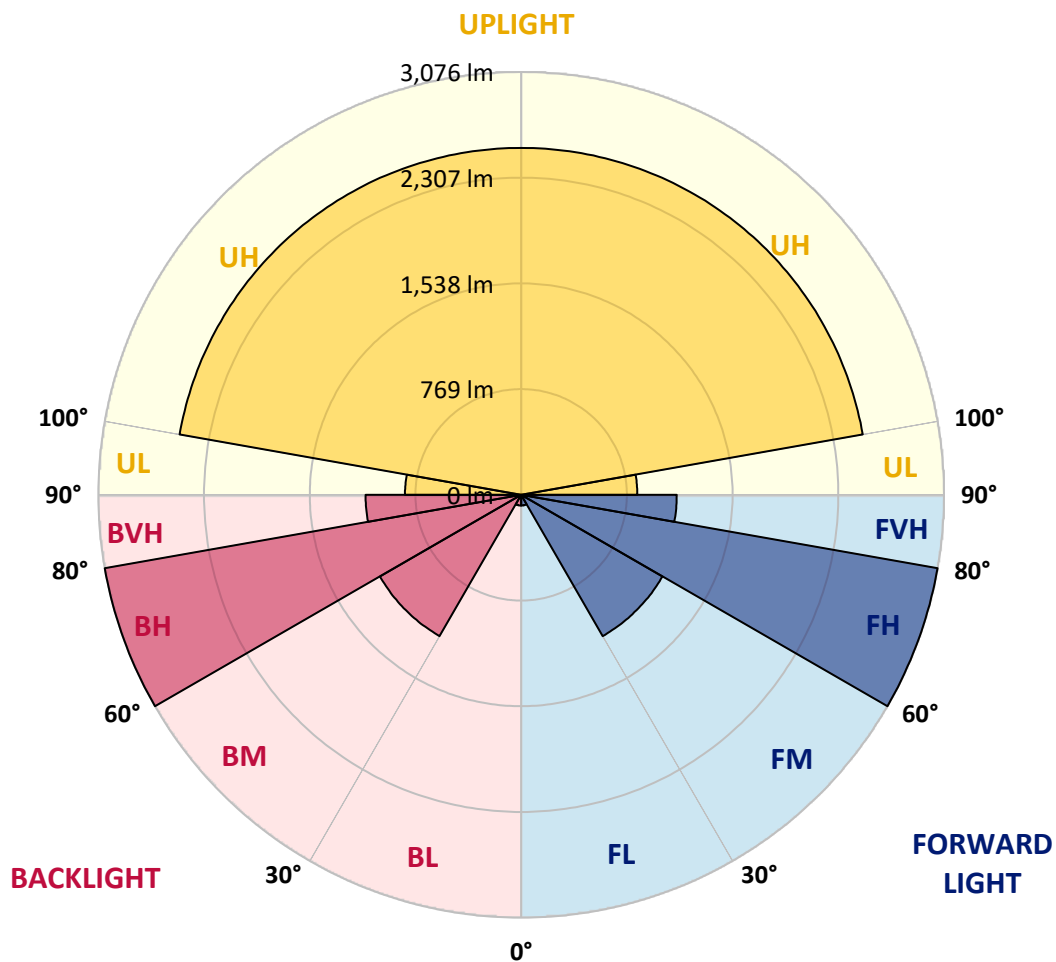
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	78.5	0.5			
FM (30°-60°)	1187.1	7.4			
FH (60°-80°)	3076.3	19.2			G2/5000
FVH (80°-90°)	1131.8	7.1			G5
BL (0°-30°)	78.5	0.5	B0/110		
BM (30°-60°)	1187.1	7.4	B2/2500		
BH (60°-80°)	3076.3	19.2	B4/5000		G2/5000
BVH (80°-90°)	1131.8	7.1			G5
UL (90°-100°)	845.2	5.3		U4/1000	
UH (100°-180°)	2523.7	15.8		U5	

BUG Rating: B4-U5-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	51.5
2.5°	62.1
5°	74.1
7.5°	90.8
10°	105.9
12.5°	122.6
15°	134.6
17.5°	149.8
20°	169.4
22.5°	189.2
25°	216.4
27.5°	270.8
30°	331.3
32.5°	372.2
35°	387.3
37.5°	441.9
40°	523.5
42.5°	611.4
45°	699.2
47.5°	761.1
50°	827.7
52.5°	1097.1
55°	1635.8
57.5°	2315.4
60°	3002.4
62.5°	3491.3
65°	3457.9
67.5°	3235.4
70°	2985.8
72.5°	2787.6
75°	2722.5
77.5°	2634.7
80°	2540.9
82.5°	2380.4
85°	2157.9
87.5°	1811.5
90°	1368.0
92.5°	948.8
95°	679.5
97.5°	538.7
100°	487.3
102.5°	476.7
105°	498.0
107.5°	541.8
110°	622.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	740.1
115°	877.7
117.5°	985.1
120°	1039.6
122.5°	1086.5
125°	1104.8
127.5°	1082.0
130°	1044.1
132.5°	1013.8
135°	979.1
137.5°	962.5
140°	979.1
142.5°	956.4
145°	870.2
147.5°	832.3
150°	792.9
152.5°	749.1
155°	753.6
157.5°	706.7
160°	597.8
162.5°	511.5
165°	493.3
167.5°	431.3
170°	352.6
172.5°	342.0
175°	342.0
177.5°	340.5
180°	363.2

(END OF REPORT)