

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: 765950

Luminaire Tested: **GSM-XX-400-HPS-XX-AR-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 765950
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-400-HPS-XX-AR-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-ROUND DISTRIBUTION
Light Source: 400 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 34926 lumens
Efficiency: 69.9%
Efficacy: 87.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U3 - G4

Input Watts (W): 400
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: 25 FT

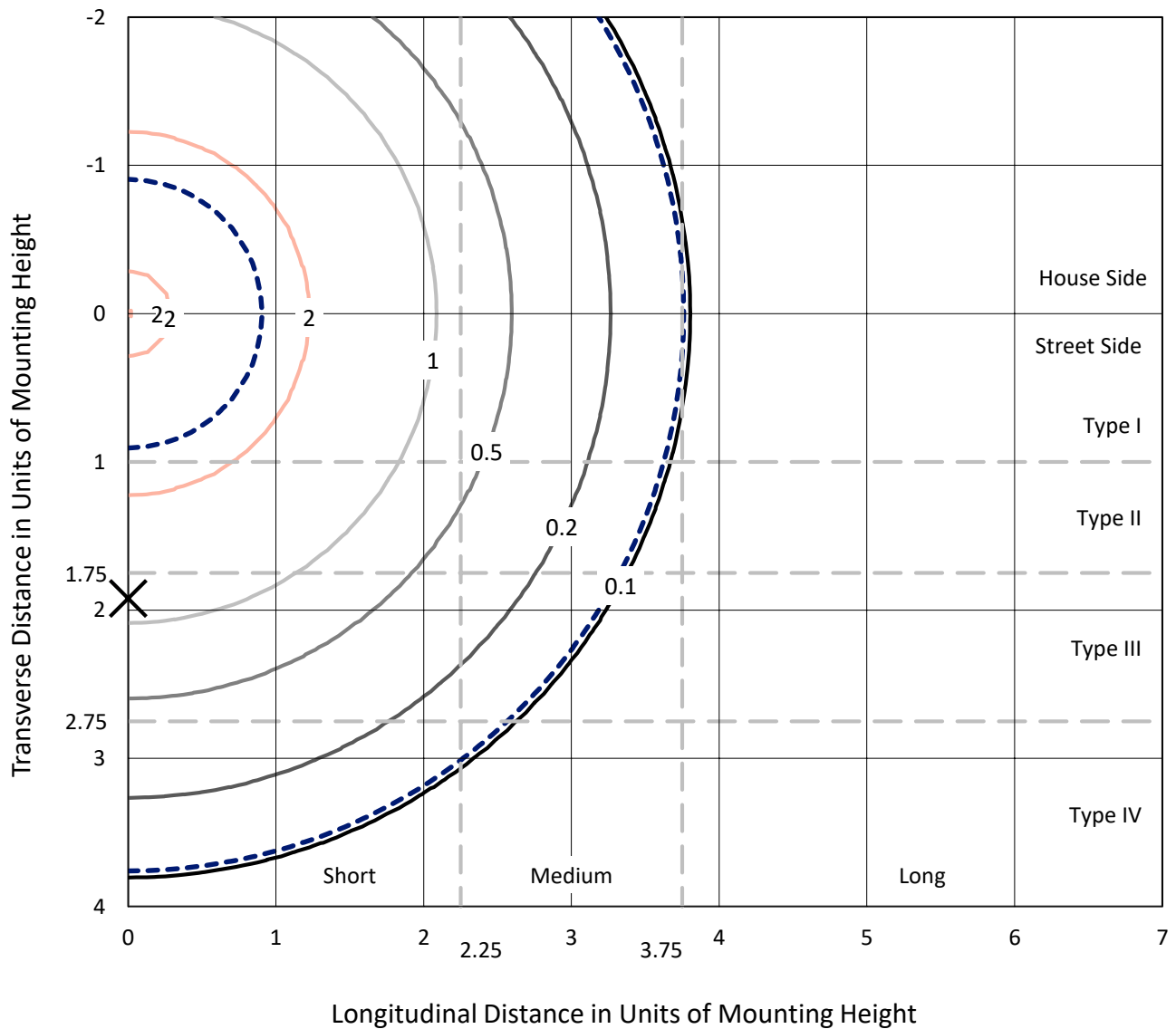


REPORT NUMBER: 765950

CATALOG NUMBER: GSM-XX-400-HPS-XX-AR-SG-XX-X

Iso-Footcandle Lines of Horizontal Illumination

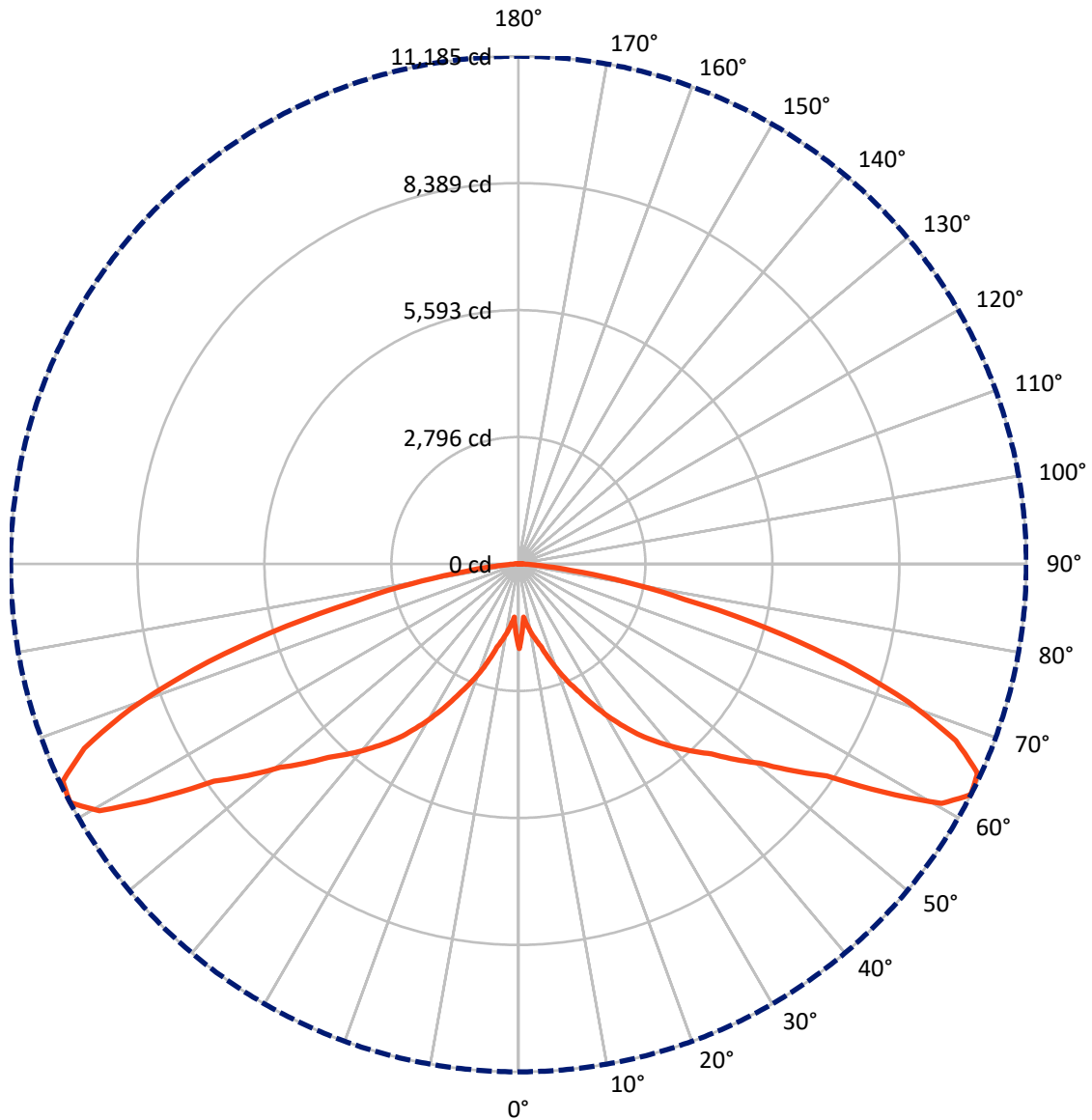
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Cutoff

REPORT NUMBER: 765950
CATALOG NUMBER: GSM-XX-400-HPS-XX-AR-SG-XX-X

Luminous Intensity Polar Plot



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

REPORT NUMBER: 765950

CATALOG NUMBER: GSM-XX-400-HPS-XX-AR-SG-XX-X

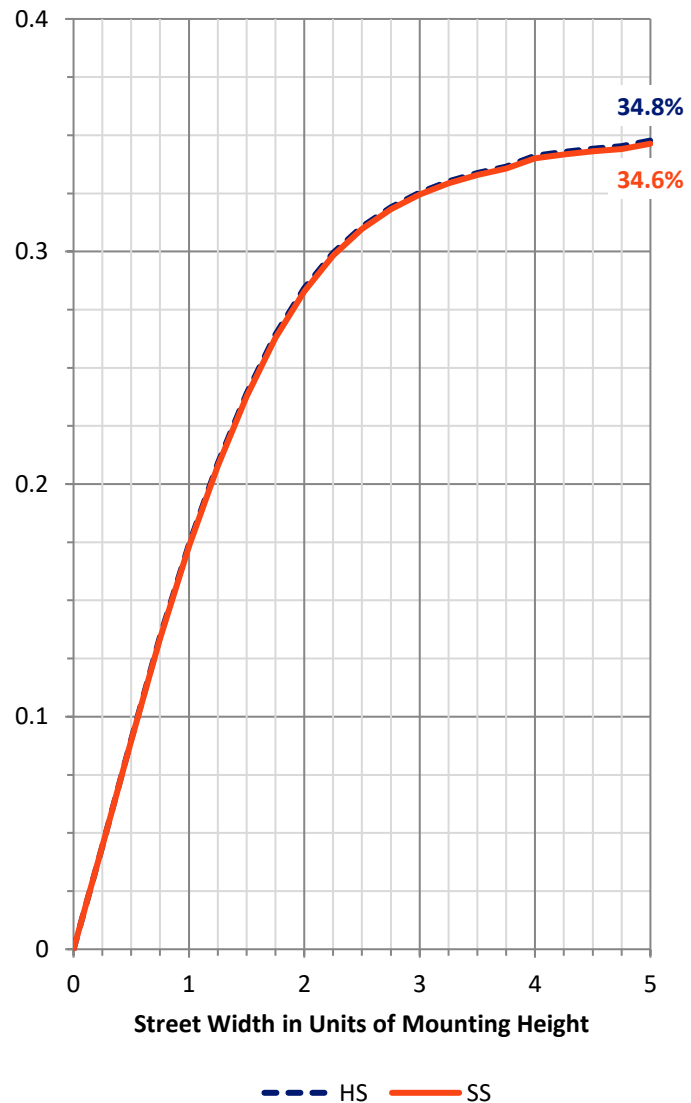
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17396.4	66.6	17463.0
	% Lamp	34.8	0.1	34.9
Street Side	Lumens	17396.4	66.6	17463.0
	% Lamp	34.8	0.1	34.9
Total	Lumens	34792.9	133.1	34926.0
	% Lamp	69.6	0.3	69.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	133.2	0.4	0.3
10°-20°	574.1	1.6	1.1
20°-30°	1482.3	4.2	3.0
30°-40°	2887.5	8.3	5.8
40°-50°	4723.7	13.5	9.4
50°-60°	7669.1	22.0	15.3
60°-70°	10562.8	30.2	21.1
70°-80°	5976.0	17.1	12.0
80°-90°	851.8	2.4	1.7
90°-100°	80.2	0.2	0.2
100°-110°	36.5	0.1	0.1
110°-120°	10.7	0.0	0.0
120°-130°	4.9	0.0	0.0
130°-140°	3.9	0.0	0.0
140°-150°	2.4	0.0	0.0
150°-160°	0.9	0.0	0.0
160°-170°	0.2	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	34792.9	99.6	69.6
0°-180°	34926.0	100.0	69.9



REPORT NUMBER: 765950

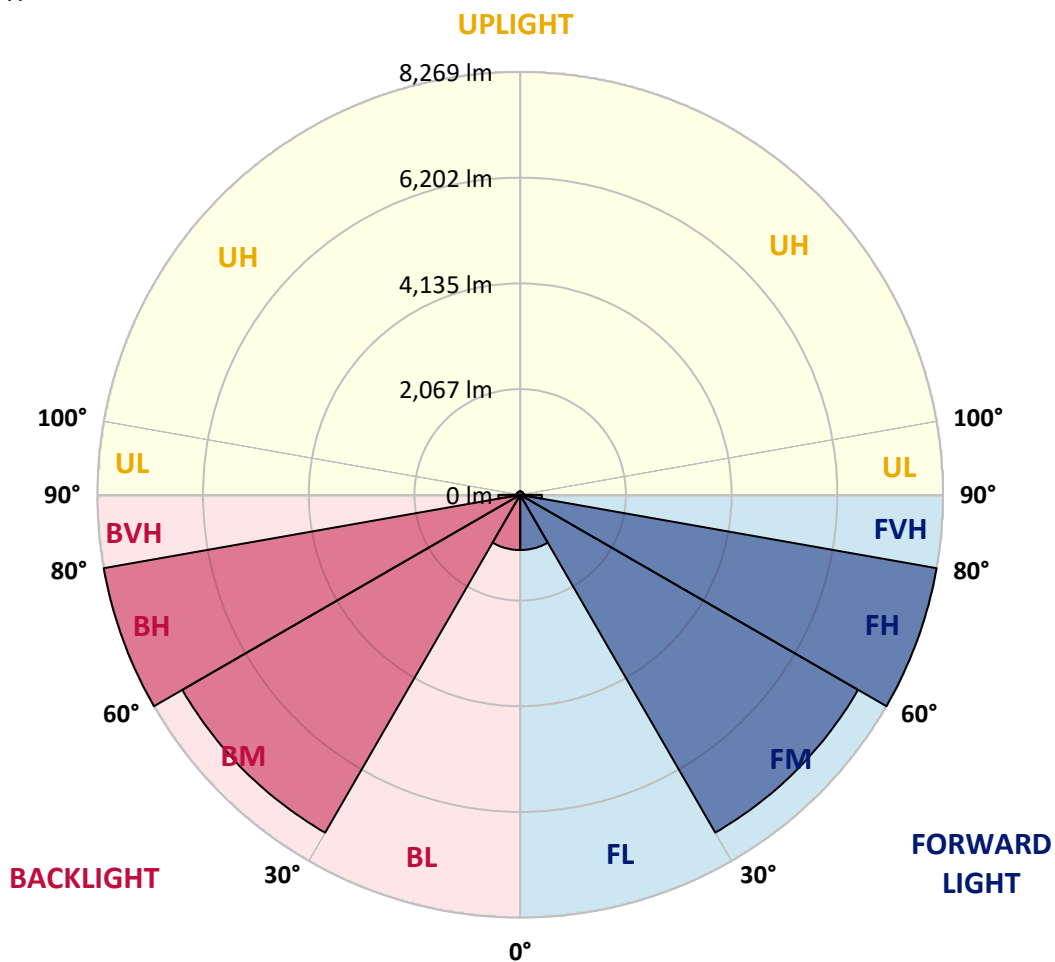
CATALOG NUMBER: GSM-XX-400-HPS-XX-AR-SG-XX-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.9	2.2			
FM	(30°-60°)	7629.1	15.3			
FH	(60°-80°)	8269.4	16.5			G4/12000
FVH	(80°-90°)	425.9	0.9			G3/500
BL	(0°-30°)	1079.9	2.2	B3/2500		
BM	(30°-60°)	7629.1	15.3	B4/8500		
BH	(60°-80°)	8269.4	16.5	B5		G4/12000
BVH	(80°-90°)	425.9	0.9			G3/500
UL	(90°-100°)	80.2	0.2		U3/500	
UH	(100°-180°)	66.6	0.1		U3/500	
Trapped Light		15074.0	30.1			

BUG Rating: B5-U3-G4

Type V Short



REPORT NUMBER: 765950

CATALOG NUMBER: GSM-XX-400-HPS-XX-AR-SG-XX-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1862
5°	1174
15°	1895
25°	3137
35°	4641
45°	5967
50°	6895
55°	8237
60°	10707
62.5°	11185
65°	11114
67.5°	10389
70°	9126
72.5°	7516
75°	5672
77.5°	3743
80°	2409
82.5°	1164
85°	520
87.5°	204
90°	83
95°	79
105°	27
115°	5
125°	6
135°	5
145°	4
155°	2
165°	0
175°	1
180°	3

(END OF REPORT)