

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: 767600\_400MP

Luminaire Tested: **GSM-XX-400-MP-XX-AR-SG-XX-HS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 767600\_400MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSM-XX-400-MP-XX-AR-SG-XX-HS  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-ROUND DISTRIBUTION  
Light Source: 400 WATT PULSE-START CLEAR ED-37 VBU BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 44000 (1 lamp)  
Luminaire Lumens: 24880.2 lumens  
Efficiency: 56.5%  
Efficacy: 55.0 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type IV - Short - Cutoff  
BUG Rating: B4 - U3 - G4

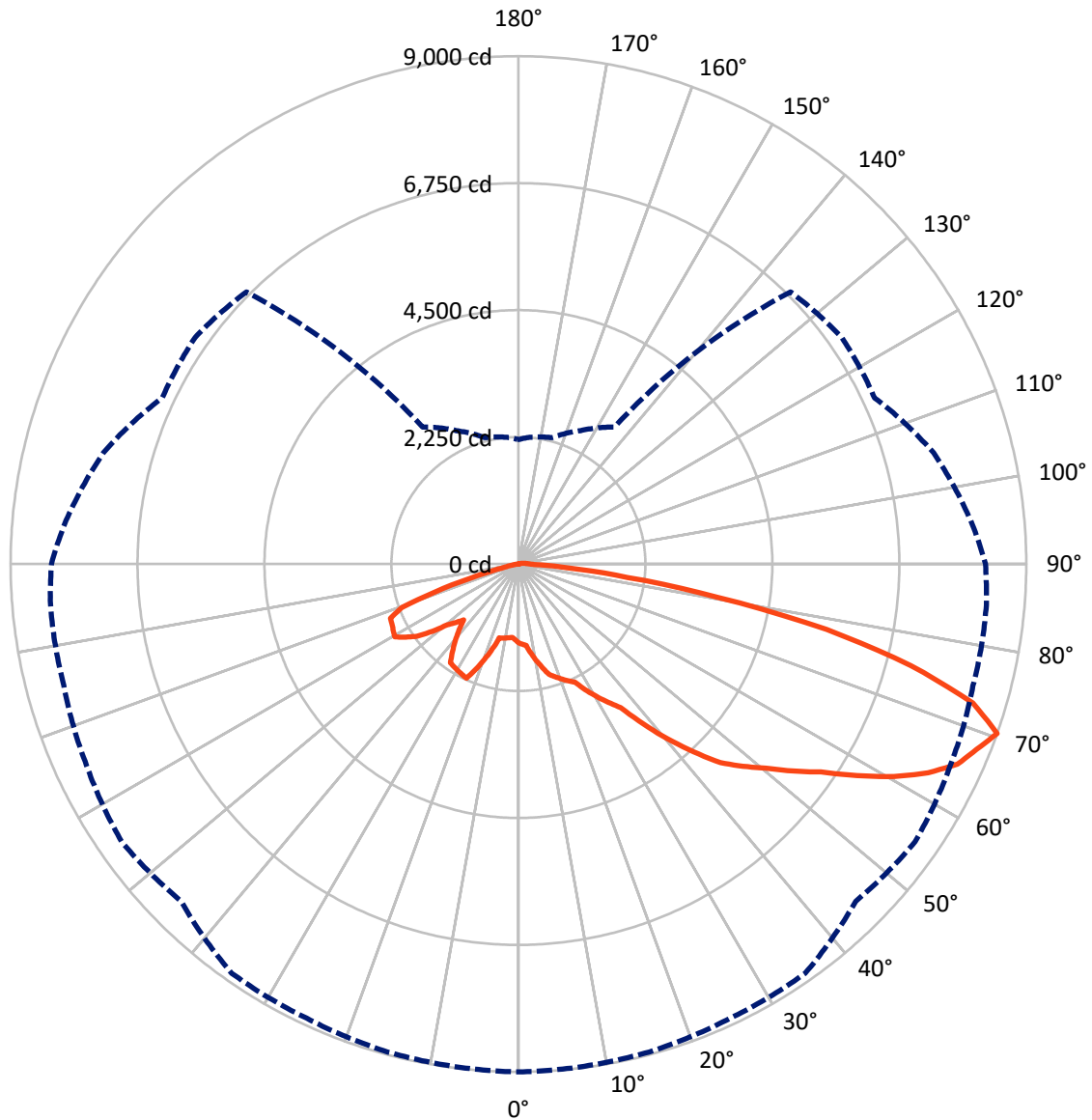
Input Watts (W): 452  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT





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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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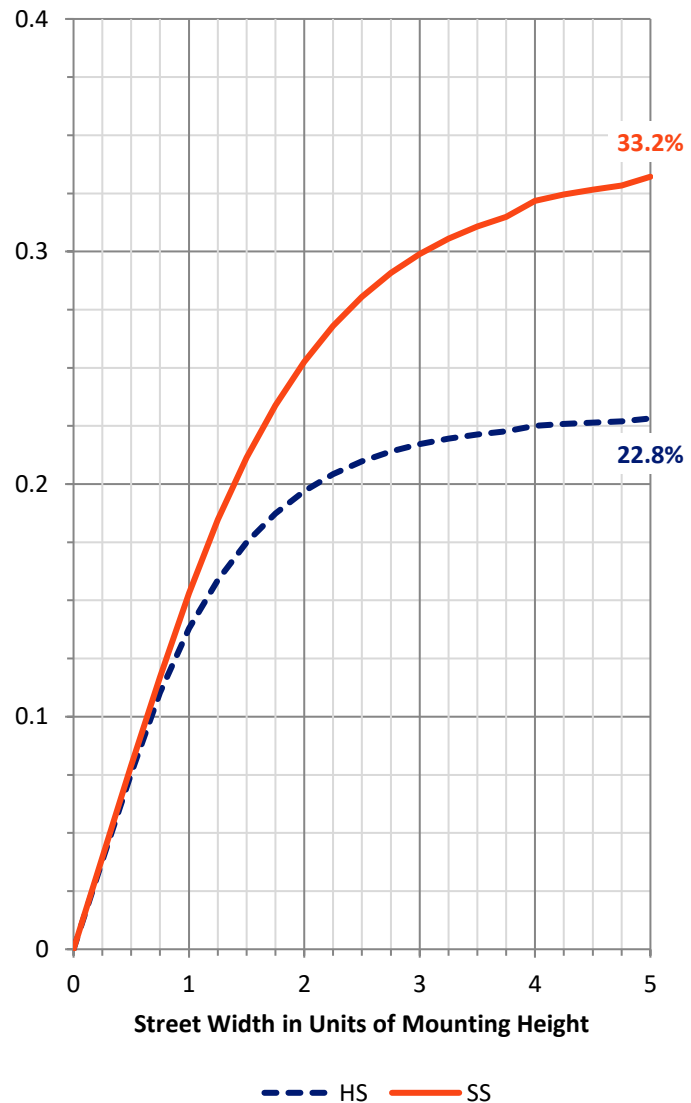
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10043.4	22.8	10066.1
	% Lamp	22.8	0.1	22.9
<b>Street Side</b>	Lumens	14751.8	62.3	14814.1
	% Lamp	33.5	0.1	33.7
<b>Total</b>	Lumens	24795.2	85.1	24880.2
	% Lamp	56.4	0.2	56.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	133.8	0.5	0.3
10°-20°	492.9	2.0	1.1
20°-30°	1059.9	4.3	2.4
30°-40°	1984.7	8.0	4.5
40°-50°	3349.0	13.5	7.6
50°-60°	4846.5	19.5	11.0
60°-70°	6426.4	25.8	14.6
70°-80°	5566.1	22.4	12.7
80°-90°	980.1	3.9	2.2
90°-100°	71.6	0.3	0.2
100°-110°	20.3	0.1	0.0
110°-120°	1.2	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24795.2	99.7	56.4
0°-180°	24880.2	100.0	56.5



REPORT NUMBER: 767600\_400MP

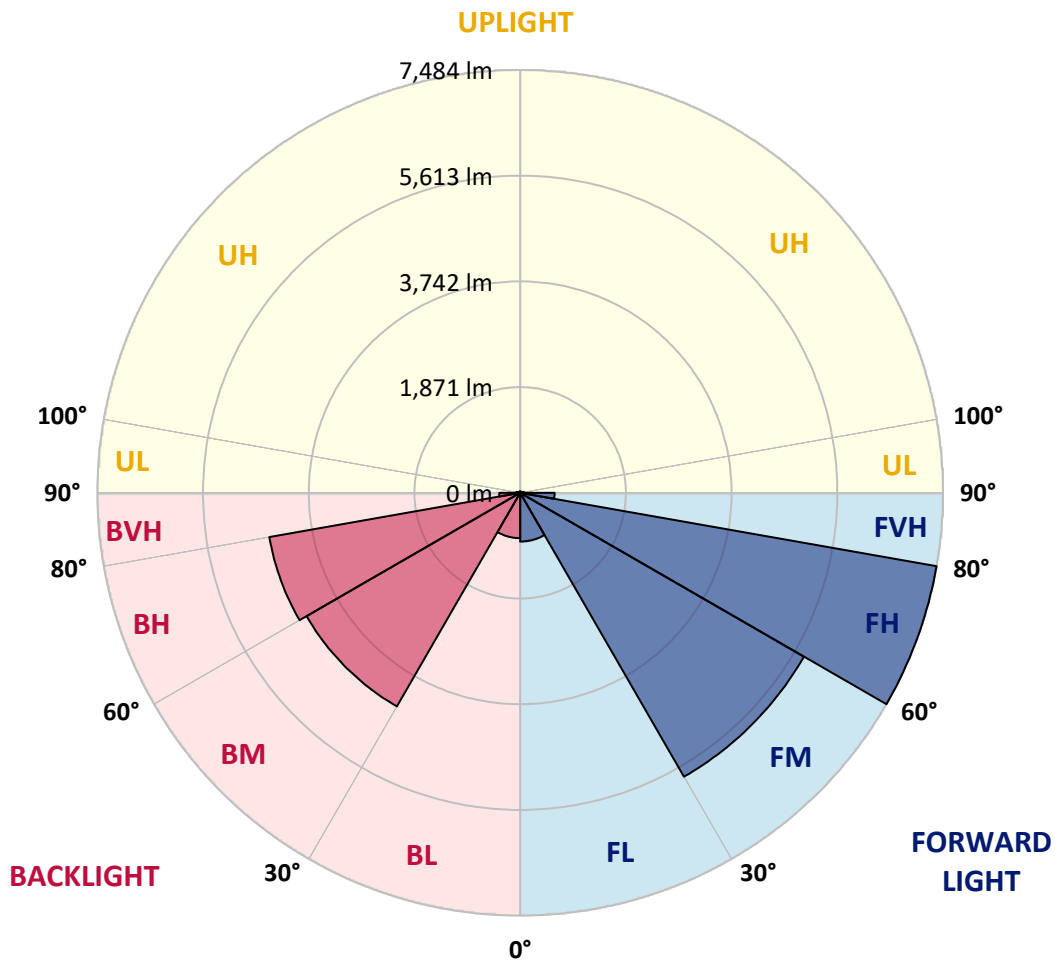
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.8	2.0			
FM (30°-60°)	5800.4	13.2			
FH (60°-80°)	7483.6	17.0			G3/7500
FVH (80°-90°)	609.4	1.4			G4/750
BL (0°-30°)	802.8	1.8	B2/1000		
BM (30°-60°)	4365.2	9.9	B3/5000		
BH (60°-80°)	4508.9	10.2	B4/5000		G4/5000
BVH (80°-90°)	370.6	0.8			G3/500
UL (90°-100°)	71.6	0.2		U3/500	
UH (100°-180°)	22.8	0.1		U2/50	
Trapped Light	19119.8	43.5			

**BUG Rating: B4-U3-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
5°	1449.6	1393.3	1425.1	1416.6	1393.3	1353.0	1360.3	1353.0	684.4	1320.0	1320.0
15°	2028.9	1988.6	2076.6	2069.2	1923.8	1827.2	1811.3	1746.6	1674.4	1658.6	1642.7
25°	2318.6	2294.1	2311.2	2278.2	2246.4	2197.6	2237.9	2230.6	2174.3	2222.0	2222.0
35°	3124.0	3059.2	3108.1	3148.4	3091.0	3155.8	3067.8	3091.0	3059.2	3171.7	3196.1
45°	5023.3	5088.1	5023.3	5233.6	4903.6	4959.8	4838.8	5079.6	4879.1	5088.1	4959.8
50°	5684.6	5877.7	5748.1	5788.4	5820.2	5539.1	5837.3	5700.4	5723.7	5781.1	5860.6
55°	6504.7	6376.3	6441.1	6400.8	6304.2	6151.4	6263.9	6030.4	6037.8	5974.2	5965.7
60°	7648.7	7664.6	7615.7	7552.1	7471.4	7141.4	7205.0	7011.9	6867.7	6755.2	6690.4
62.5°	8147.3	8059.3	8043.4	7986.0	7873.6	7568.0	7640.1	7406.7	7310.1	7165.9	7092.6
65°	8550.7	8356.3	8413.8	8356.3	8147.3	7978.7	7922.4	7810.0	7656.0	7575.3	7462.9
67.5°	8759.7	8679.0	8694.9	8606.9	8485.9	8268.3	8212.1	8187.7	7986.0	7986.0	7906.6
70°	9000.4	8984.6	8952.8	8880.7	8856.2	8452.9	8582.4	8445.6	8340.4	8324.6	8276.9
72.5°	8421.1	8340.4	8452.9	8380.8	8429.7	8115.6	8187.7	7970.1	7906.6	7761.1	7792.9
75°	7181.8	7044.9	7197.7	7222.1	7245.3	7085.2	6996.0	6932.4	6875.0	6697.8	6706.3
77.5°	5586.8	5514.7	5627.1	5635.7	5651.6	5474.3	5321.6	5209.1	5056.3	4942.7	5031.9
80°	3575.0	3542.0	3559.1	3518.8	3559.1	3357.4	3268.2	3196.1	3196.1	3301.2	3478.4
82.5°	1948.2	1851.7	1827.2	1795.4	1819.9	1667.1	1698.9	1602.3	1667.1	1706.2	1763.7
85°	886.1	789.6	828.7	781.0	837.2	716.2	756.6	700.3	708.9	732.1	756.6
87.5°	273.8	201.7	233.4	168.7	273.8	177.2	249.3	217.6	185.8	177.2	168.7
90°	193.1	121.0	152.8	96.6	193.1	105.1	185.8	152.8	128.3	112.4	105.1
95°	112.4	56.2	72.1	56.2	121.0	80.7	136.9	128.3	112.4	96.6	88.0
105°	15.9	8.6	8.6	8.6	0.0	0.0	8.6	8.6	8.6	8.6	8.6
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
5°	1312.7	1312.7	1344.4	1344.4	1344.4	1328.6	1335.9	1320.0	1320.0	1304.1
15°	1634.1	1593.8	1658.6	1723.3	1739.2	1650.0	1416.6	1376.2	1368.9	1353.0
25°	2197.6	2076.6	2004.4	2069.2	2190.2	2165.8	2253.8	2237.9	2253.8	2222.0
35°	3164.3	3043.3	2882.0	3043.3	3245.0	3268.2	3317.1	2504.3	2213.4	2125.4
45°	4830.2	4733.7	4556.4	4533.2	4807.0	4556.4	2439.6	1609.7	1409.2	1384.8
50°	5547.7	5449.9	5137.0	5177.3	5386.3	5063.7	2037.4	1730.7	1698.9	1658.6
55°	5804.3	5611.2	5273.9	5555.0	5700.4	4726.3	2423.7	2327.1	2246.4	2206.1
60°	6521.8	6215.0	5837.3	6111.1	6207.7	3678.9	2745.1	2673.0	2583.8	2544.7
62.5°	6908.0	6504.7	6062.2	6279.8	6367.8	3236.4	2729.2	2632.7	2583.8	2511.7
65°	7269.8	6795.6	6311.6	6425.2	6553.6	2987.1	2737.8	2576.4	2536.1	2479.9
67.5°	7673.1	7173.2	6625.7	6650.1	6697.8	2954.1	2753.7	2544.7	2464.0	2464.0
70°	8075.2	7615.7	6964.2	6996.0	6818.8	2962.7	2608.2	2318.6	2253.8	2206.1
72.5°	7632.8	7439.7	6867.7	6618.3	6271.2	2745.1	2246.4	1714.8	1472.8	1400.7
75°	6625.7	6625.7	6223.6	5644.2	5112.6	2504.3	1819.9	1046.2	644.1	595.2
77.5°	5023.3	5240.9	5016.0	4436.7	3799.9	2311.2	1433.7	539.0	282.3	242.0
80°	3413.7	3678.9	3647.1	3059.2	2567.9	1730.7	861.7	265.2	128.3	112.4
82.5°	1674.4	1892.0	1916.4	1674.4	1425.1	772.4	330.0	105.1	56.2	48.9
85°	652.7	772.4	796.9	724.8	595.2	249.3	105.1	40.3	24.4	15.9
87.5°	64.8	168.7	177.2	161.3	136.9	48.9	15.9	15.9	0.0	0.0
90°	40.3	88.0	80.7	80.7	56.2	31.8	8.6	0.0	0.0	0.0
95°	31.8	64.8	56.2	48.9	40.3	24.4	24.4	15.9	15.9	0.0
105°	0.0	8.6	8.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)