

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: LUMARK

Report Number: E429-89_350MP

Luminaire Tested: **MPQF-GS/C73-350**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-89_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQF-GS/C73-350
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 350 WATT PULSE-START COATED ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 31000 (1 lamp)
Luminaire Lumens: 23115.7 lumens
Efficiency: 74.6%
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.75' x L: 1.75' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

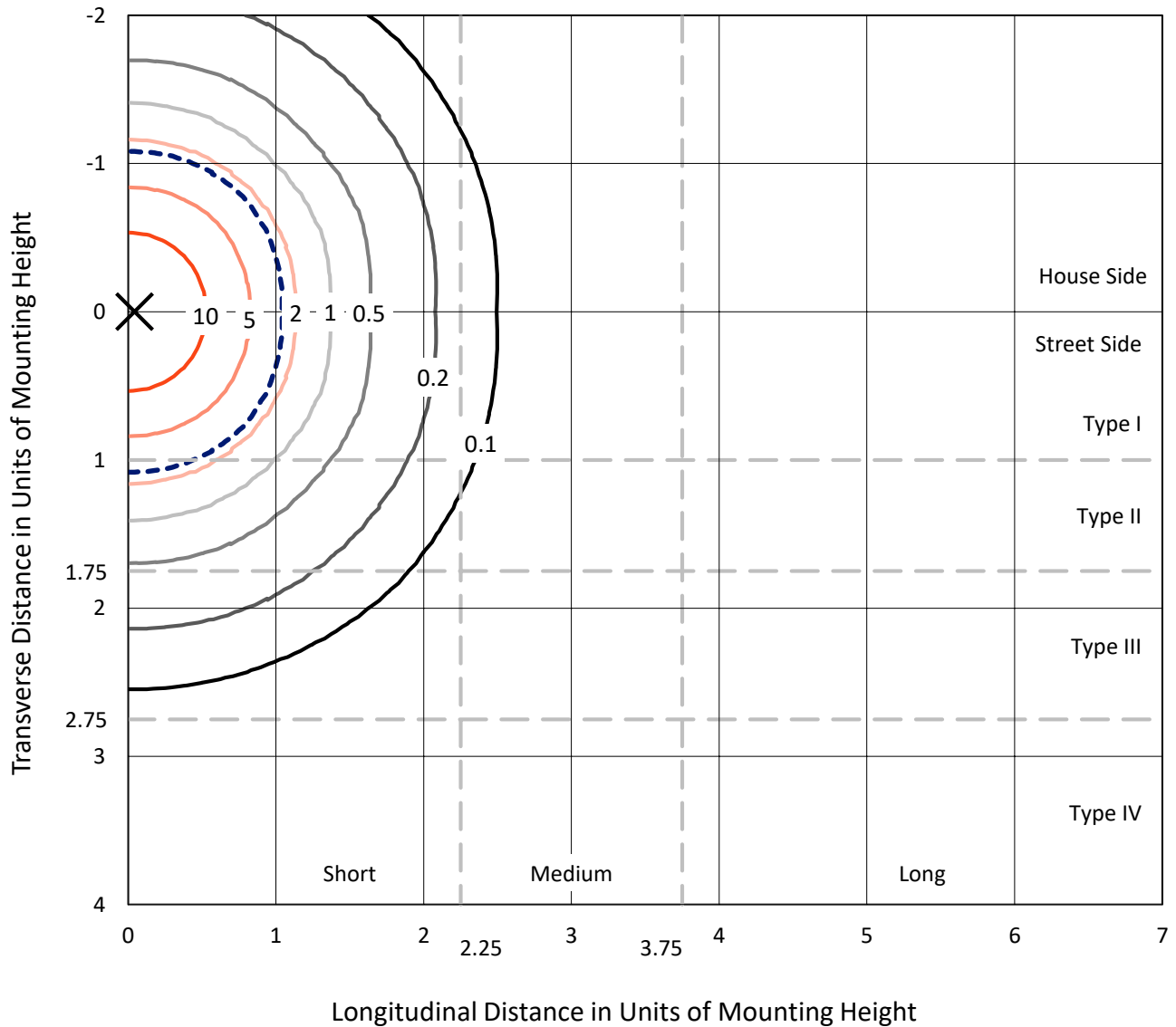
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

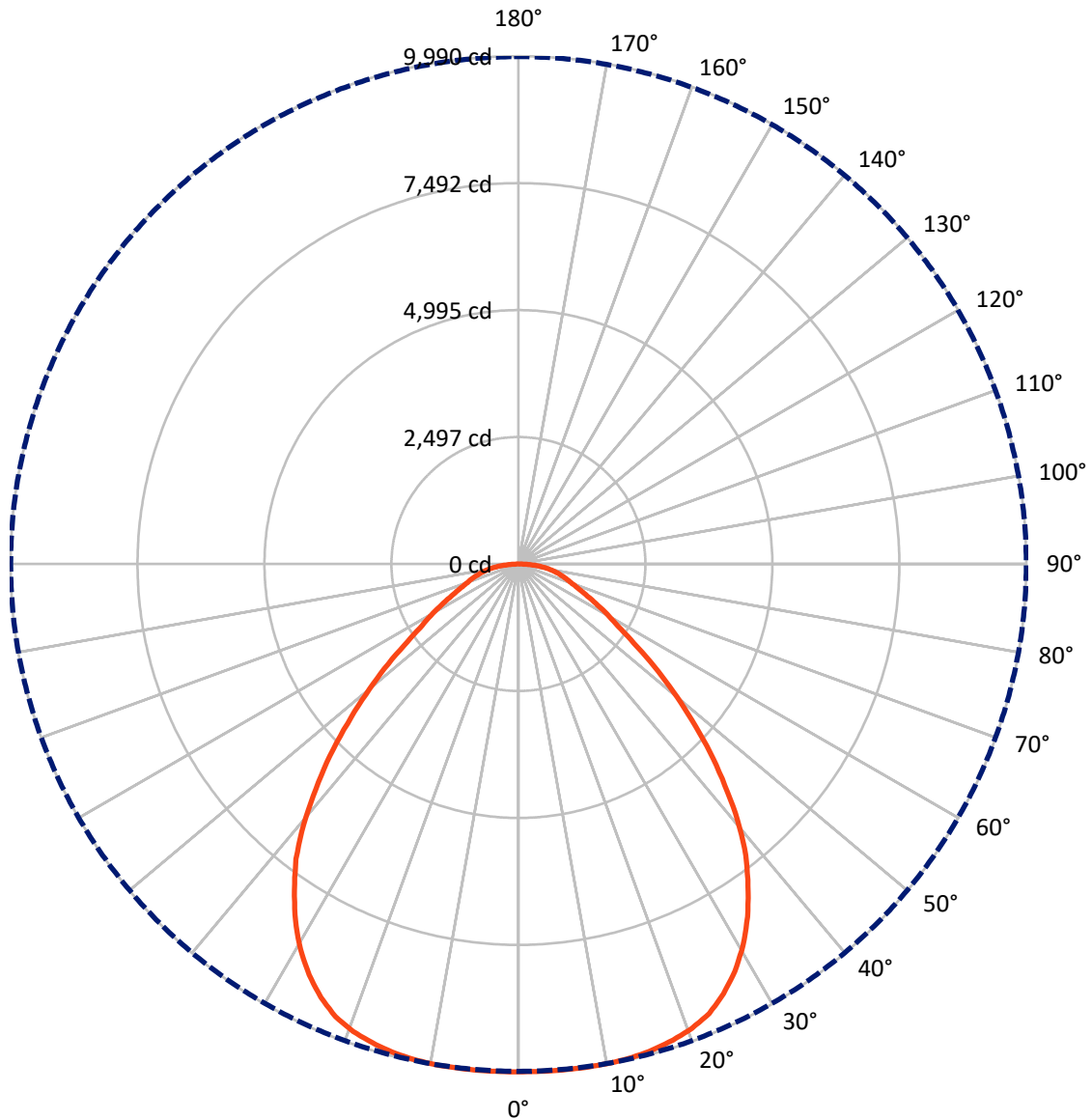
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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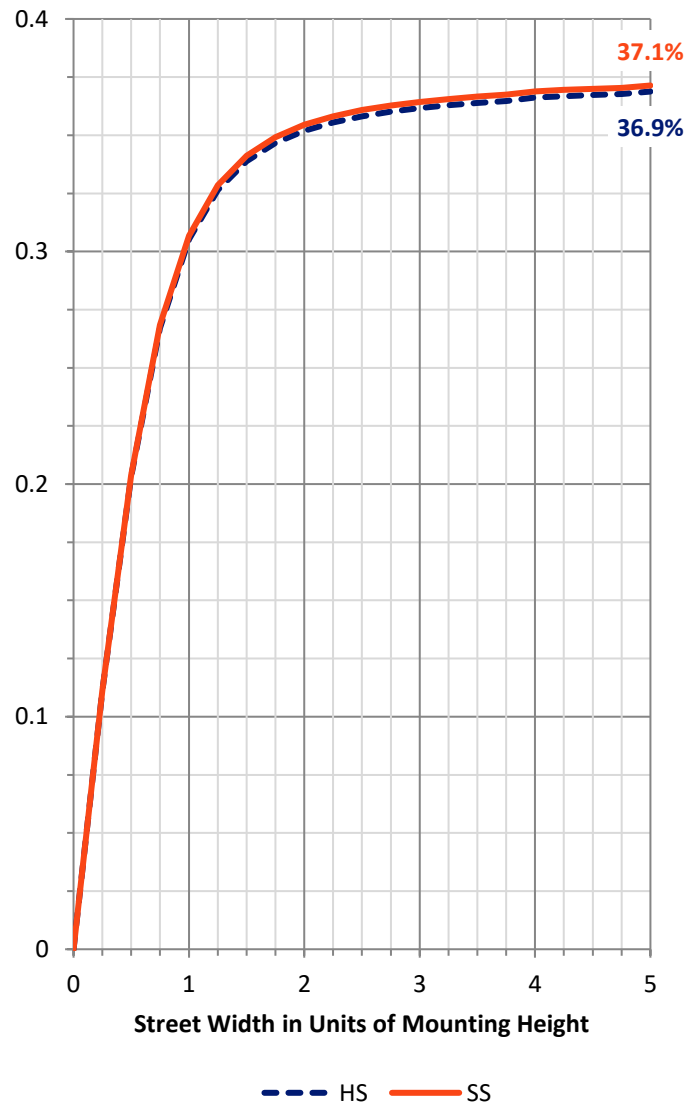
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11557.8	0.0	11557.8
	% Lamp	37.3	0.0	37.3
Street Side	Lumens	11557.8	0.0	11557.8
	% Lamp	37.3	0.0	37.3
Total	Lumens	23115.7	0.0	23115.7
	% Lamp	74.6	0.0	74.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	952.6	4.1	3.1
10°-20°	2802.6	12.1	9.0
20°-30°	4328.1	18.7	14.0
30°-40°	4976.1	21.5	16.1
40°-50°	4309.6	18.6	13.9
50°-60°	2806.6	12.1	9.1
60°-70°	1644.6	7.1	5.3
70°-80°	935.8	4.0	3.0
80°-90°	359.6	1.6	1.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	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°	23115.7	100.0	74.6
0°-180°	23115.7	100.0	74.6

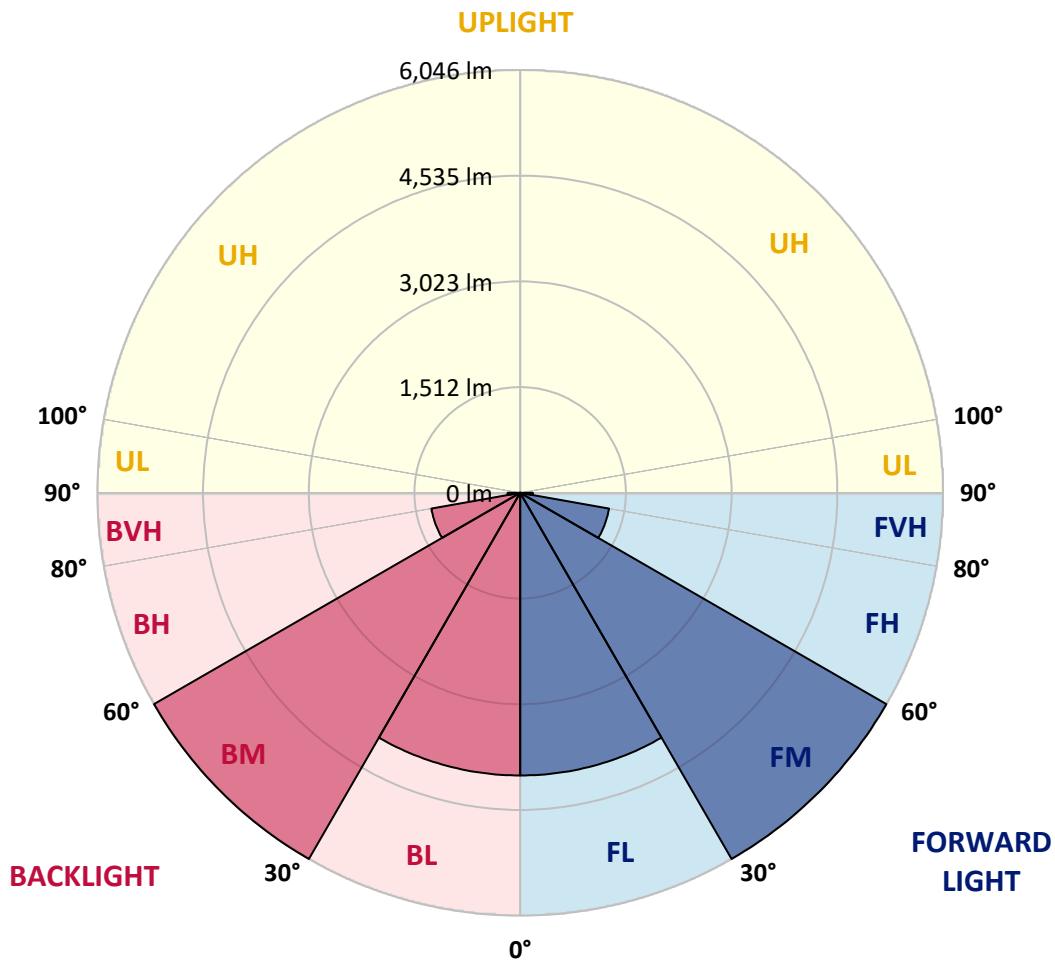


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.6	13.0			
FM (30°-60°)	6046.2	19.5			
FH (60°-80°)	1290.2	4.2			G1/1800
FVH (80°-90°)	179.8	0.6			G2/225
BL (0°-30°)	4041.6	13.0	B4/5000		
BM (30°-60°)	6046.2	19.5	B4/8500		
BH (60°-80°)	1290.2	4.2	B3/2500		G1/1800
BVH (80°-90°)	179.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	7884.3	25.4			

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9988.2	9988.2	9988.2	9988.2	9988.2	9988.2	9988.2	9988.2	9988.2
2.5°	9981.2	9977.4	9984.3	9986.6	9989.8	9986.6	9984.3	9977.4	9981.2
5°	9976.6	9975.0	9978.9	9987.4	9989.8	9987.4	9978.9	9975.0	9976.6
7.5°	9973.5	9970.4	9978.9	9985.9	9988.2	9985.9	9978.9	9970.4	9973.5
10°	9968.8	9966.5	9975.0	9978.9	9981.2	9978.9	9975.0	9966.5	9968.8
12.5°	9956.4	9952.6	9951.0	9954.9	9961.1	9954.9	9951.0	9952.6	9956.4
15°	9923.1	9923.1	9916.9	9914.6	9915.4	9914.6	9916.9	9923.1	9923.1
17.5°	9864.2	9862.6	9852.6	9849.5	9844.8	9849.5	9852.6	9862.6	9864.2
20°	9775.1	9758.8	9749.5	9742.5	9750.3	9742.5	9749.5	9758.8	9775.1
22.5°	9658.1	9631.7	9610.0	9597.6	9603.8	9597.6	9610.0	9631.7	9658.1
25°	9480.6	9469.0	9427.9	9392.2	9366.6	9392.2	9427.9	9469.0	9480.6
27.5°	9216.3	9226.4	9190.7	9111.7	9069.1	9111.7	9190.7	9226.4	9216.3
30°	8869.9	8897.8	8886.2	8773.8	8708.7	8773.8	8886.2	8897.8	8869.9
32.5°	8446.7	8499.4	8525.0	8356.8	8276.2	8356.8	8525.0	8499.4	8446.7
35°	7969.3	8114.2	8099.5	7911.2	7778.7	7911.2	8099.5	8114.2	7969.3
37.5°	7483.4	7595.8	7639.2	7402.8	7268.0	7402.8	7639.2	7595.8	7483.4
40°	6953.3	7044.0	7145.5	6803.7	6646.4	6803.7	7145.5	7044.0	6953.3
42.5°	6289.1	6421.7	6473.6	6177.5	5953.6	6177.5	6473.6	6421.7	6289.1
45°	5567.6	5749.0	5780.7	5526.5	5292.5	5526.5	5780.7	5749.0	5567.6
47.5°	4974.0	5001.1	5020.4	4818.2	4591.9	4818.2	5020.4	5001.1	4974.0
50°	4176.5	4303.6	4312.1	4198.2	3945.5	4198.2	4312.1	4303.6	4176.5
52.5°	3626.2	3682.0	3631.6	3643.3	3348.0	3643.3	3631.6	3682.0	3626.2
55°	3115.5	3175.2	3086.0	3126.4	2754.4	3126.4	3086.0	3175.2	3115.5
57.5°	2667.6	2754.4	2660.6	2698.6	2306.4	2698.6	2660.6	2754.4	2667.6
60°	2277.7	2381.6	2286.2	2283.2	2000.3	2283.2	2286.2	2381.6	2277.7
62.5°	1926.6	2003.4	1949.9	1922.8	1708.9	1922.8	1949.9	2003.4	1926.6
65°	1634.5	1681.8	1658.5	1619.8	1452.4	1619.8	1658.5	1681.8	1634.5
67.5°	1372.5	1402.0	1436.1	1378.0	1253.2	1378.0	1436.1	1402.0	1372.5
70°	1144.7	1178.0	1233.8	1168.7	1095.1	1168.7	1233.8	1178.0	1144.7
72.5°	978.8	1022.2	1059.4	1003.6	975.7	1003.6	1059.4	1022.2	978.8
75°	847.8	874.2	899.8	849.4	856.4	849.4	899.8	874.2	847.8
77.5°	751.8	756.4	787.4	748.6	744.8	748.6	787.4	756.4	751.8
80°	617.7	632.4	647.9	613.8	616.1	613.8	647.9	632.4	617.7
82.5°	473.5	500.6	500.6	483.6	472.8	483.6	500.6	500.6	473.5
85°	315.4	351.8	344.1	345.7	314.7	345.7	344.1	351.8	315.4
87.5°	150.4	190.6	179.8	189.9	160.4	189.9	179.8	190.6	150.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)