

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: 766152_200MP

Luminaire Tested: **MPQF-GS/C73-200-XXX-VL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766152_200MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQF-GS/C73-200-XXX-VL
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 200 WATT PULSE-START CLEAR ED-28 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 21000 (1 lamp)
Luminaire Lumens: 12648.1 lumens
Efficiency: 60.2%
Efficacy: 45.7 lumens/watt
Luminous Opening: (L: 0' x W: 0' x H: 0.1'
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U1 - G1

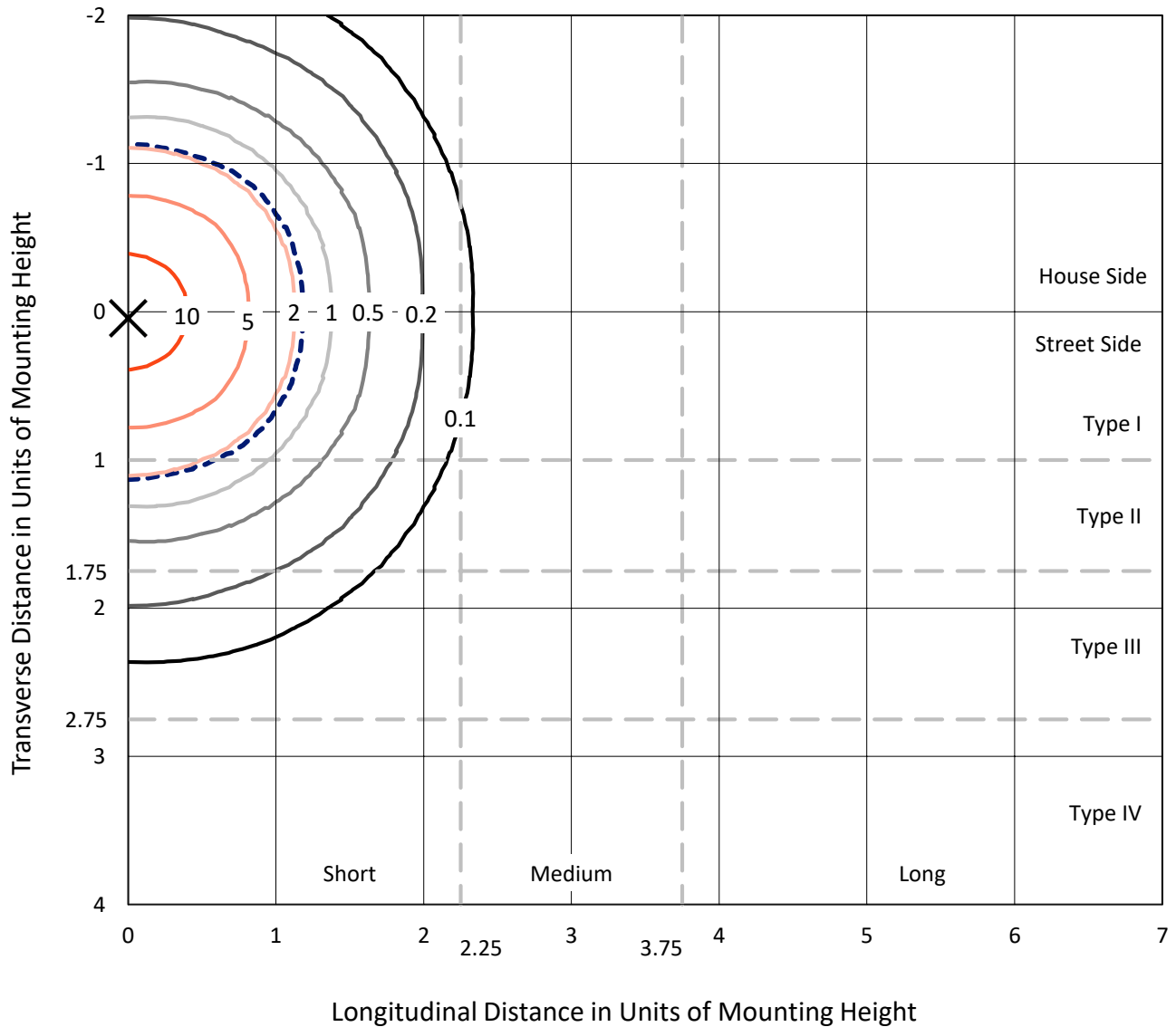
Input Watts (W): 277
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

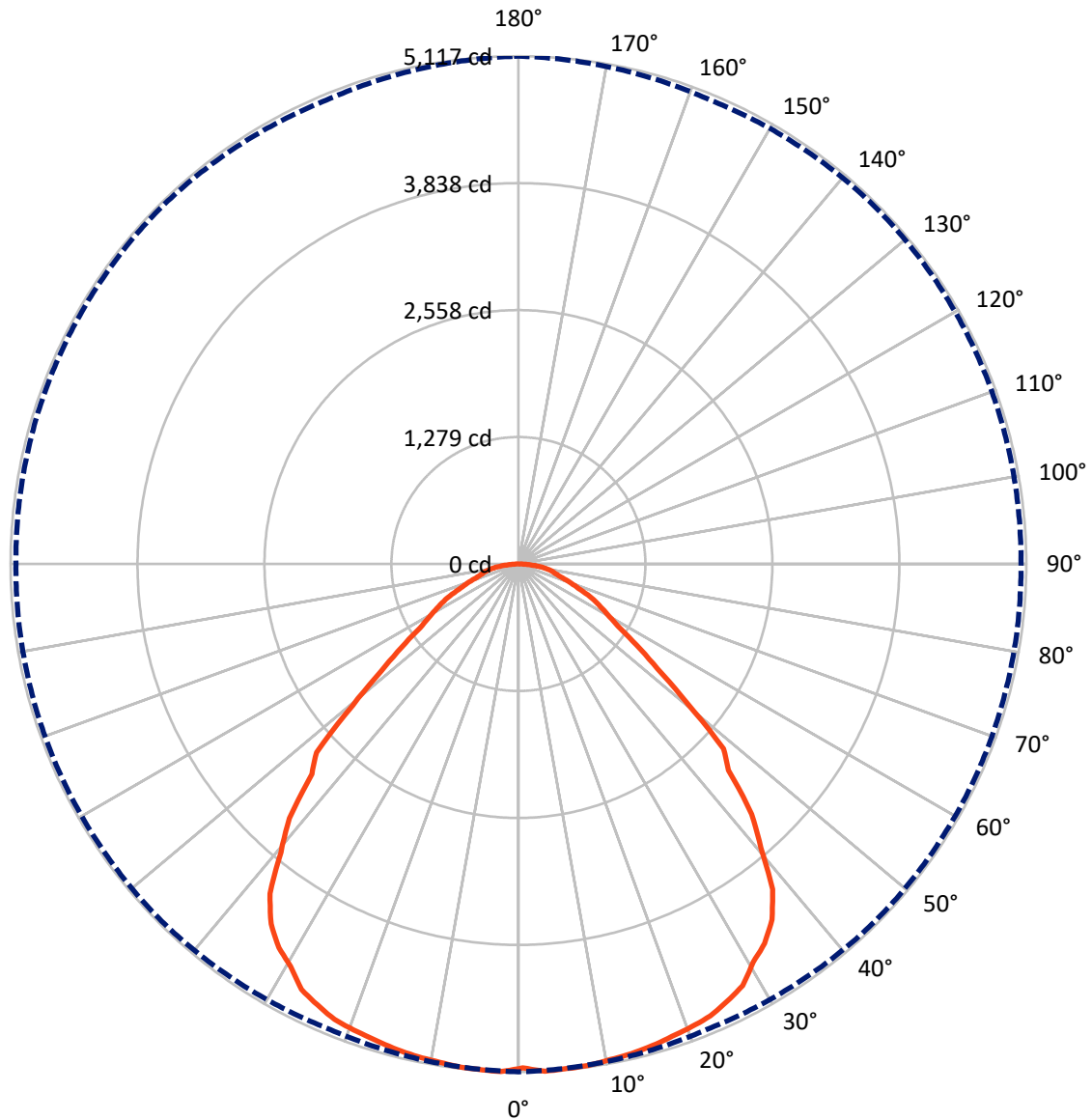
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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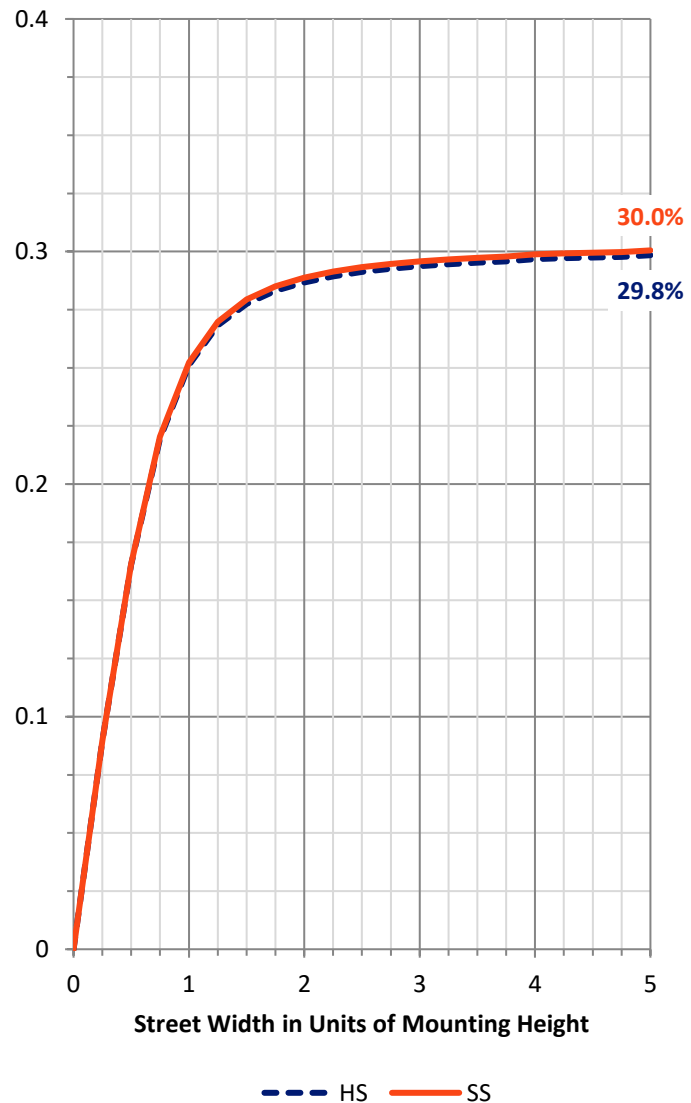
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6323.9	0.1	6324.1
	% Lamp	30.1	0.0	30.1
Street Side	Lumens	6323.9	0.1	6324.1
	% Lamp	30.1	0.0	30.1
Total	Lumens	12647.9	0.3	12648.1
	% Lamp	60.2	0.0	60.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	483.7	3.8	2.3
10°-20°	1424.6	11.3	6.8
20°-30°	2281.1	18.0	10.9
30°-40°	2873.4	22.7	13.7
40°-50°	2562.0	20.3	12.2
50°-60°	1595.6	12.6	7.6
60°-70°	832.7	6.6	4.0
70°-80°	442.3	3.5	2.1
80°-90°	152.6	1.2	0.7
90°-100°	0.3	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°	12647.9	100.0	60.2
0°-180°	12648.1	100.0	60.2

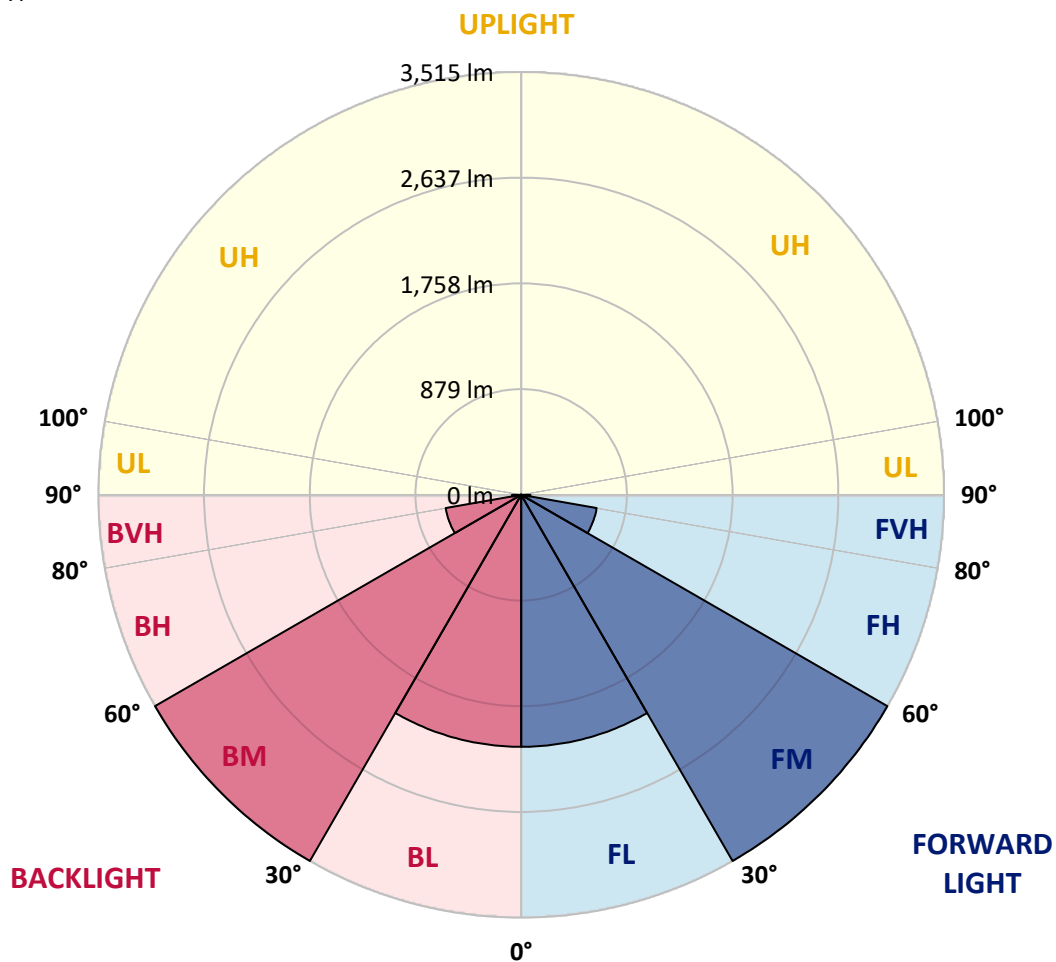


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.7	10.0			
FM (30°-60°)	3515.5	16.7			
FH (60°-80°)	637.5	3.0			G0/660
FVH (80°-90°)	76.3	0.4			G1/100
BL (0°-30°)	2094.7	10.0	B3/2500		
BM (30°-60°)	3515.5	16.7	B3/5000		
BH (60°-80°)	637.5	3.0	B2/1000		G0/660
BVH (80°-90°)	76.3	0.4			G1/100
UL (90°-100°)	0.3	0.0		U1/10	
UH (100°-180°)	0.1	0.0		U1/10	
Trapped Light	8351.9	39.8			

BUG Rating: B3-U1-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5076.9	5076.9	5076.9	5076.9	5076.9
2.5°	5116.8	5058.4	5086.1	5077.9	5063.6
5°	5107.6	5050.2	5075.9	5072.8	5057.4
7.5°	5100.4	5043.1	5075.9	5067.7	5056.4
10°	5077.9	5032.8	5069.7	5065.6	5052.3
12.5°	5062.5	5011.3	5060.5	5060.5	5047.2
15°	5036.9	4998.0	5045.1	5050.2	5039.0
17.5°	5005.2	4965.2	5023.6	5033.9	5023.6
20°	4978.5	4951.9	5004.1	5028.7	5019.5
22.5°	4947.8	4928.3	4983.7	5008.2	5009.3
25°	4882.2	4885.3	4954.0	4991.9	4981.6
27.5°	4811.6	4816.7	4938.6	4956.0	4954.0
30°	4657.9	4751.1	4900.7	4921.2	4896.6
32.5°	4556.5	4634.3	4824.9	4820.8	4791.1
35°	4399.8	4539.1	4718.3	4756.2	4688.6
37.5°	4159.0	4305.5	4611.8	4578.0	4516.5
40°	3761.6	3963.4	4422.3	4351.6	4191.8
42.5°	3447.1	3508.5	4108.8	3926.5	3788.2
45°	2967.7	3149.0	3527.0	3486.0	3346.7
47.5°	2782.2	2730.0	3008.6	3022.0	2832.4
50°	2196.3	2360.2	2548.7	2569.2	2479.0
52.5°	1753.8	2058.0	2144.0	2255.7	2166.6
55°	1441.3	1656.4	1860.3	1875.7	1836.7
57.5°	1180.1	1353.2	1532.5	1661.6	1511.0
60°	1030.5	1096.1	1282.5	1307.1	1192.4
62.5°	910.7	922.0	1063.3	1093.0	935.3
65°	792.9	792.9	865.6	812.3	735.5
67.5°	650.5	710.9	713.0	658.7	614.6
70°	548.0	598.2	596.2	537.8	534.7
72.5°	446.6	490.7	504.0	474.3	485.6
75°	383.1	390.3	422.0	424.1	419.0
77.5°	347.3	337.0	361.6	361.6	354.4
80°	284.8	284.8	286.8	305.3	299.1
82.5°	223.3	223.3	219.2	214.1	218.2
85°	135.2	138.3	125.0	144.4	140.3
87.5°	61.5	55.3	65.6	55.3	51.2
90°	0.0	4.1	1.0	2.0	1.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)