

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

Luminaire Tested: **MHQF-GS/C73-250-XXX-VL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766152
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MHQF-GS/C73-250-XXX-VL
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 250 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 20500 (1 lamp)
Luminaire Lumens: 12347 lumens
Efficiency: 60.2%
Efficacy: 49.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U1 - G1

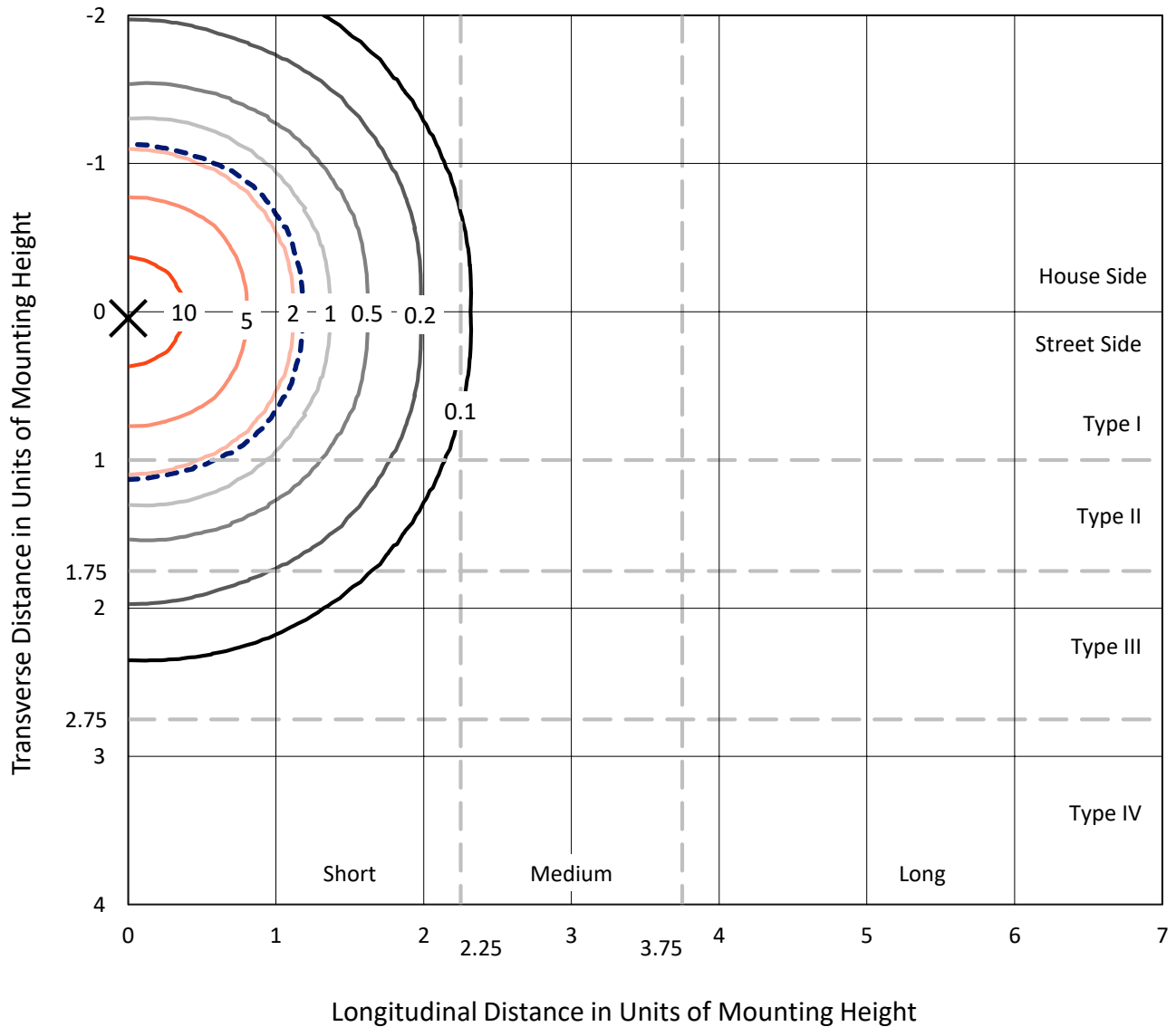
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: 766152
 CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

Iso-Footcandle Lines of Horizontal Illumination

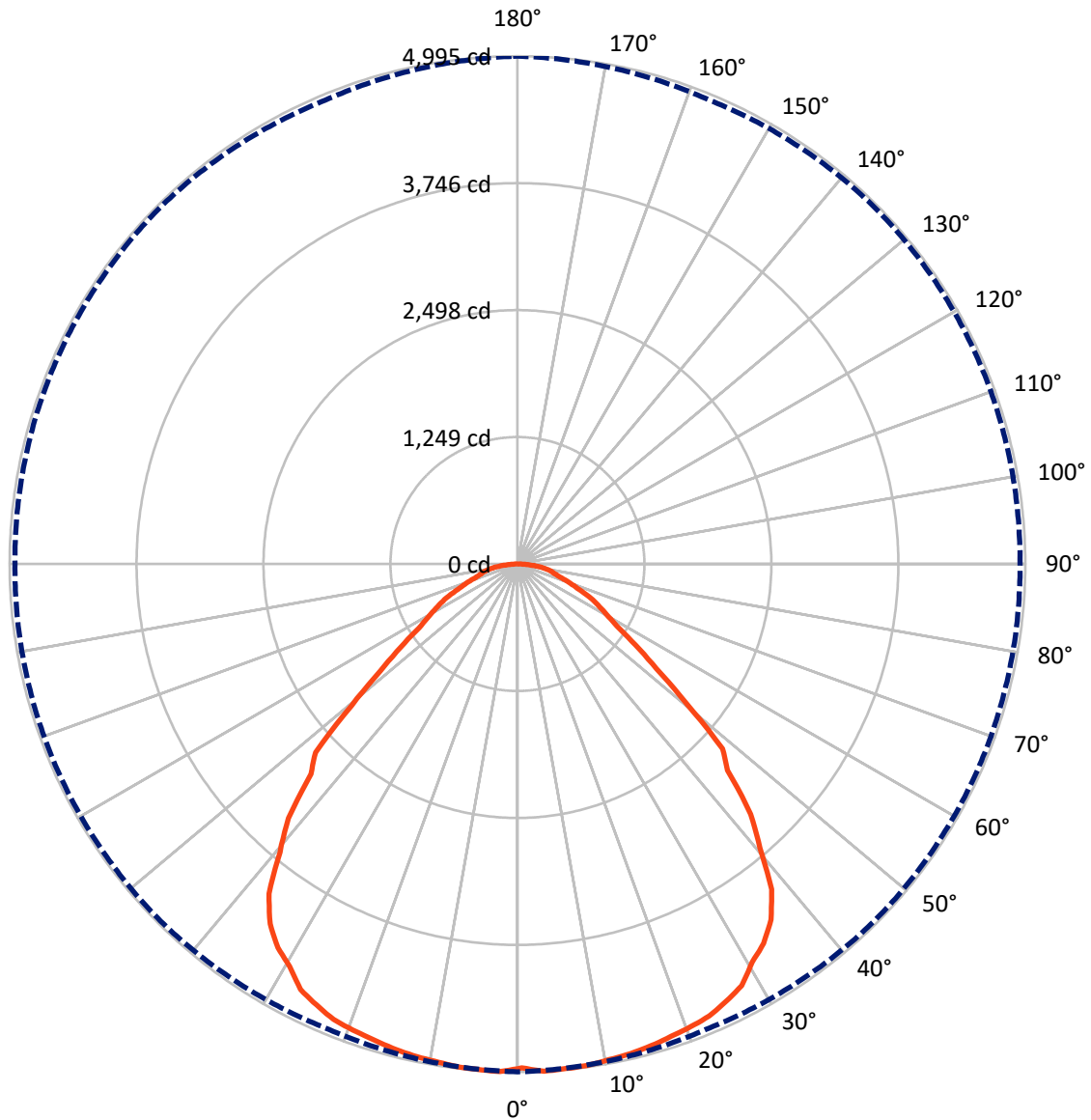
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
 Type V - Short - Cutoff

REPORT NUMBER: 766152
CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

Luminous Intensity Polar Plot



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

REPORT NUMBER: 766152

CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

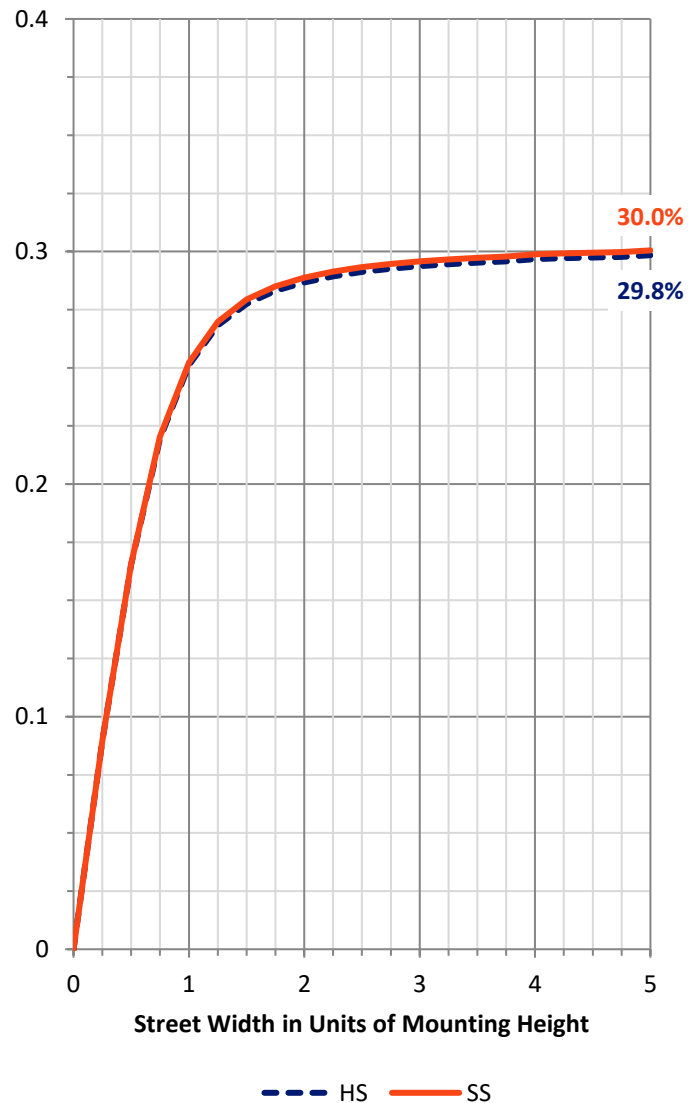
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6173.4	0.1	6173.5
	% Lamp	30.1	0.0	30.1
Street Side	Lumens	6173.4	0.1	6173.5
	% Lamp	30.1	0.0	30.1
Total	Lumens	12346.7	0.3	12347.0
	% Lamp	60.2	0.0	60.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	472.2	3.8	2.3
10°-20°	1390.7	11.3	6.8
20°-30°	2226.7	18.0	10.9
30°-40°	2805.0	22.7	13.7
40°-50°	2501.0	20.3	12.2
50°-60°	1557.6	12.6	7.6
60°-70°	812.8	6.6	4.0
70°-80°	431.7	3.5	2.1
80°-90°	149.0	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°	12346.7	100.0	60.2
0°-180°	12347.0	100.0	60.2



REPORT NUMBER: 766152

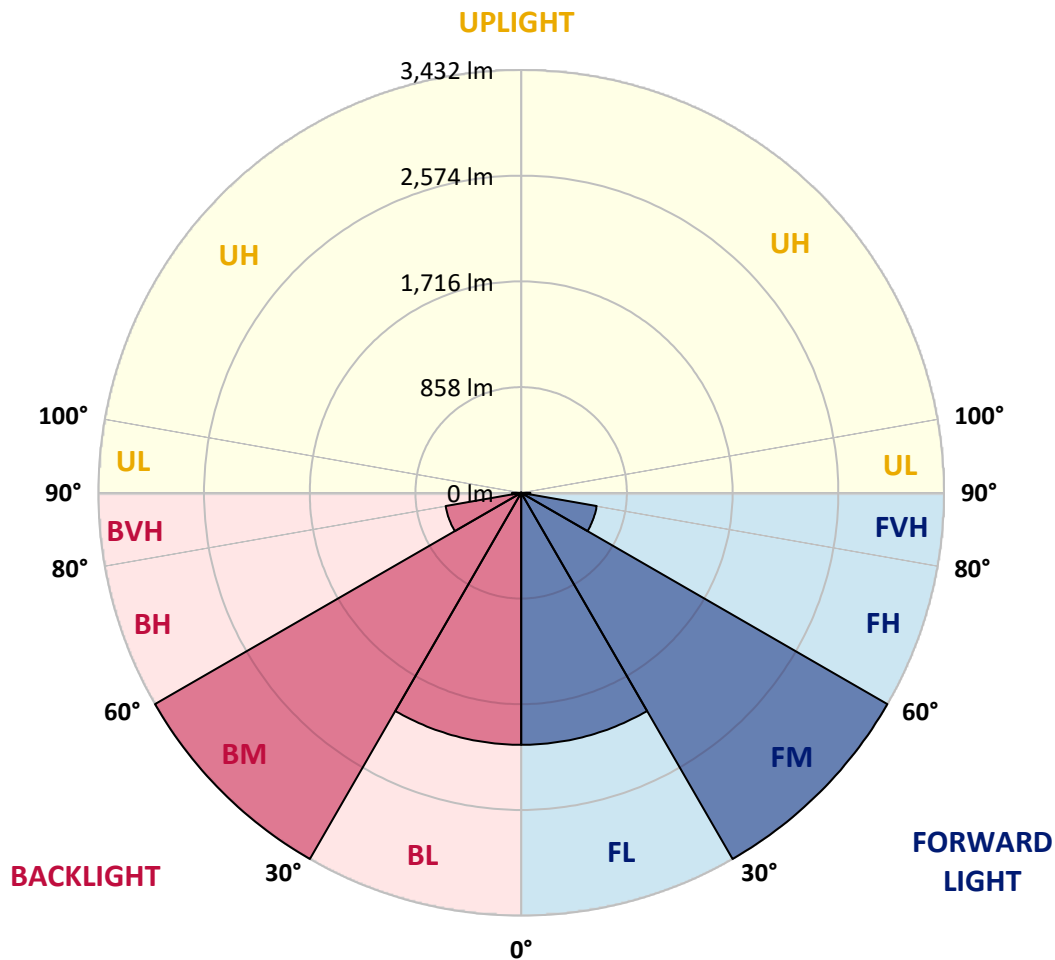
CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.8	10.0			
FM (30°-60°)	3431.8	16.7			
FH (60°-80°)	622.3	3.0			G0/660
FVH (80°-90°)	74.5	0.4			G1/100
BL (0°-30°)	2044.8	10.0	B3/2500		
BM (30°-60°)	3431.8	16.7	B3/5000		
BH (60°-80°)	622.3	3.0	B2/1000		G0/660
BVH (80°-90°)	74.5	0.4			G1/100
UL (90°-100°)	0.3	0.0		U1/10	
UH (100°-180°)	0.1	0.0		U1/10	
Trapped Light	8153.0	39.8			

BUG Rating: B3-U1-G1

Type V Short





REPORT NUMBER: 766152

CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4956	4956	4956	4956	4956
2.5°	4995	4938	4965	4957	4943
5°	4986	4930	4955	4952	4937
7.5°	4979	4923	4955	4947	4936
10°	4957	4913	4949	4945	4932
12.5°	4942	4892	4940	4940	4927
15°	4917	4879	4925	4930	4919
17.5°	4886	4847	4904	4914	4904
20°	4860	4834	4885	4909	4900
22.5°	4830	4811	4865	4889	4890
25°	4766	4769	4836	4873	4863
27.5°	4697	4702	4821	4838	4836
30°	4547	4638	4784	4804	4780
32.5°	4448	4524	4710	4706	4677
35°	4295	4431	4606	4643	4577
37.5°	4060	4203	4502	4469	4409
40°	3672	3869	4317	4248	4092
42.5°	3365	3425	4011	3833	3698
45°	2897	3074	3443	3403	3267
47.5°	2716	2665	2937	2950	2765
50°	2144	2304	2488	2508	2420
52.5°	1712	2009	2093	2202	2115
55°	1407	1617	1816	1831	1793
57.5°	1152	1321	1496	1622	1475
60°	1006	1070	1252	1276	1164
62.5°	889	900	1038	1067	913
65°	774	774	845	793	718
67.5°	635	694	696	643	600
70°	535	584	582	525	522
72.5°	436	479	492	463	474
75°	374	381	412	414	409
77.5°	339	329	353	353	346
80°	278	278	280	298	292
82.5°	218	218	214	209	213
85°	132	135	122	141	137
87.5°	60	54	64	54	50
90°	0	4	1	2	1
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



REPORT NUMBER: 766152

CATALOG NUMBER: MHQF-GS/C73-250-XXX-VL

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)