

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_250MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766152_250MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQF-GS/C73-250-XXX-VL
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 250 WATT PULSE-START CLEAR ED-28 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 25000 (1 lamp)
Luminaire Lumens: 15057.3 lumens
Efficiency: 60.2%
Efficacy: 53.2 lumens/watt
Luminous Opening: (L: 0' x W: 0' x H: 0.1'
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U1 - G1

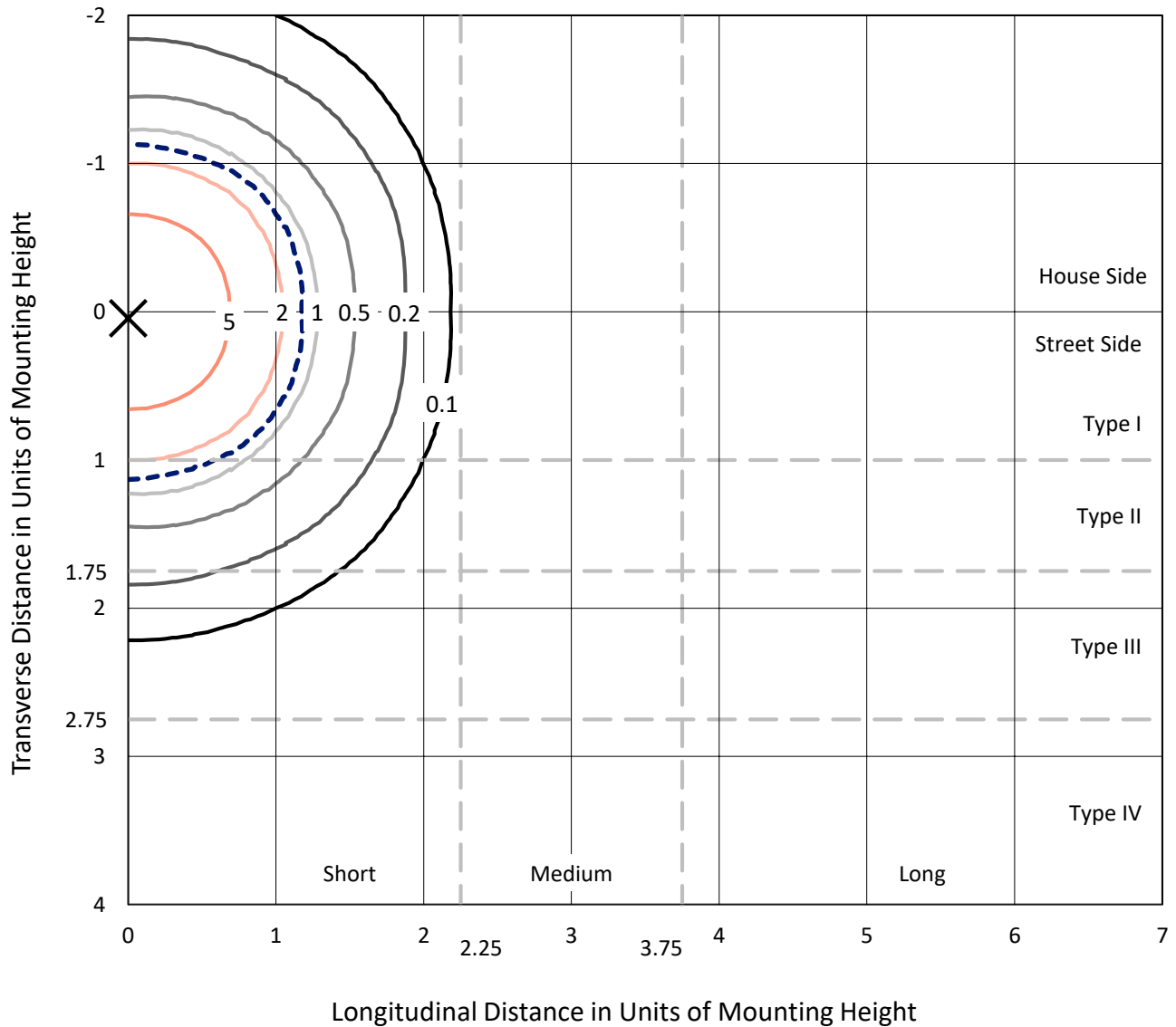
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: 766152_250MP
 CATALOG NUMBER: MPQF-GS/C73-250-XXX-VL

Iso-Footcandle Lines of Horizontal Illumination

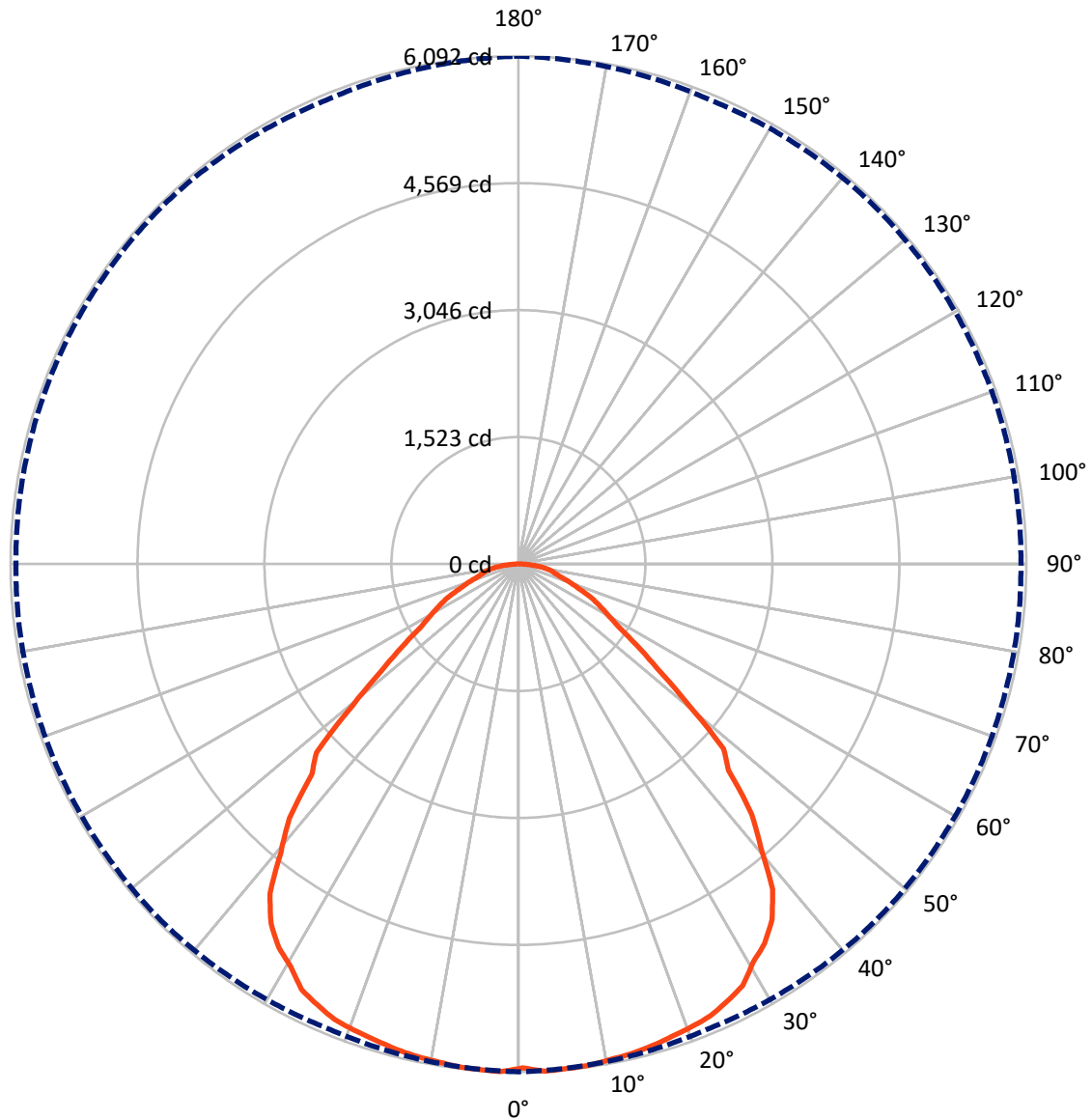
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type V - Short - Cutoff

REPORT NUMBER: 766152_250MP
CATALOG NUMBER: MPQF-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_250MP
 CATALOG NUMBER: MPQF-GS/C73-250-XXX-VL

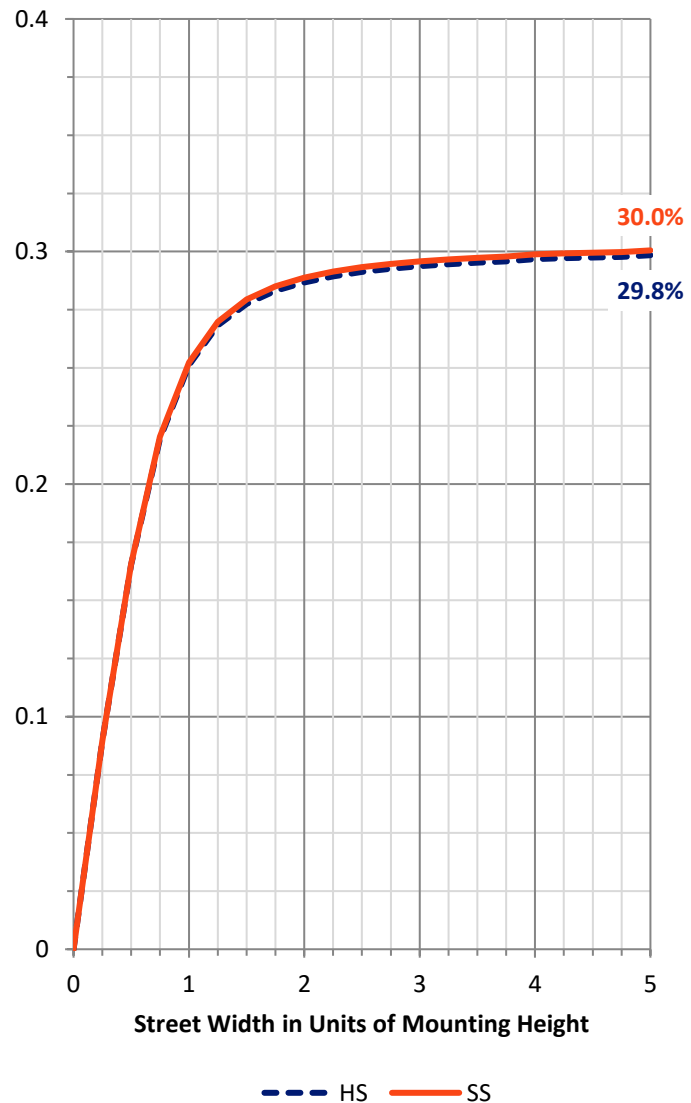
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7528.5	0.2	7528.7
	% Lamp	30.1	0.0	30.1
Street Side	Lumens	7528.5	0.2	7528.7
	% Lamp	30.1	0.0	30.1
Total	Lumens	15057.0	0.3	15057.3
	% Lamp	60.2	0.0	60.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	575.8	3.8	2.3
10°-20°	1695.9	11.3	6.8
20°-30°	2715.5	18.0	10.9
30°-40°	3420.7	22.7	13.7
40°-50°	3050.0	20.3	12.2
50°-60°	1899.5	12.6	7.6
60°-70°	991.3	6.6	4.0
70°-80°	526.5	3.5	2.1
80°-90°	181.7	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°	15057.0	100.0	60.2
0°-180°	15057.3	100.0	60.2

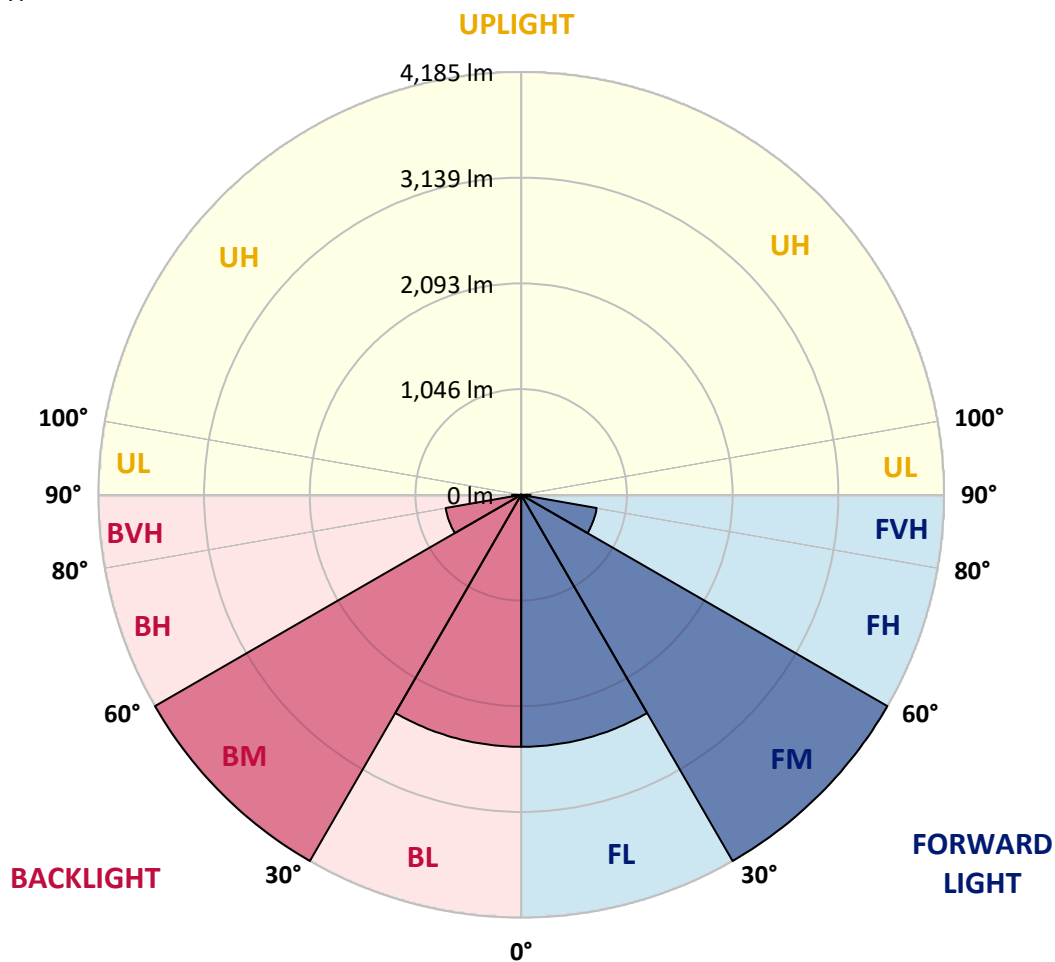


REPORT NUMBER: 766152_250MP
 CATALOG NUMBER: MPQF-GS/C73-250-XXX-VL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.7	10.0			
FM (30°-60°)	4185.1	16.7			
FH (60°-80°)	758.9	3.0			G1/1800
FVH (80°-90°)	90.8	0.4			G1/100
BL (0°-30°)	2493.7	10.0	B3/2500		
BM (30°-60°)	4185.1	16.7	B3/5000		
BH (60°-80°)	758.9	3.0	B2/1000		G1/1800
BVH (80°-90°)	90.8	0.4			G1/100
UL (90°-100°)	0.3	0.0		U1/10	
UH (100°-180°)	0.2	0.0		U1/10	
Trapped Light	9942.7	39.8			

BUG Rating: B3-U1-G1
 Type V Short





REPORT NUMBER: 766152_250MP

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6043.9	6043.9	6043.9	6043.9	6043.9
2.5°	6091.5	6022.0	6054.9	6045.1	6028.0
5°	6080.5	6012.2	6042.7	6039.0	6020.7
7.5°	6072.0	6003.7	6042.7	6032.9	6019.5
10°	6045.1	5991.5	6035.4	6030.5	6014.6
12.5°	6026.8	5965.9	6024.4	6024.4	6008.5
15°	5996.3	5950.0	6006.1	6012.2	5998.8
17.5°	5958.5	5911.0	5980.5	5992.7	5980.5
20°	5926.8	5895.1	5957.3	5986.6	5975.6
22.5°	5890.2	5867.1	5932.9	5962.2	5963.4
25°	5812.2	5815.9	5897.6	5942.7	5930.5
27.5°	5728.0	5734.1	5879.3	5900.0	5897.6
30°	5545.1	5656.1	5834.1	5858.5	5829.3
32.5°	5424.4	5517.1	5743.9	5739.0	5703.7
35°	5237.8	5403.7	5617.1	5662.2	5581.7
37.5°	4951.2	5125.6	5490.2	5450.0	5376.8
40°	4478.0	4718.3	5264.6	5180.5	4990.2
42.5°	4103.7	4176.8	4891.5	4674.4	4509.8
45°	3532.9	3748.8	4198.8	4150.0	3984.1
47.5°	3312.2	3250.0	3581.7	3597.6	3372.0
50°	2614.6	2809.8	3034.1	3058.5	2951.2
52.5°	2087.8	2450.0	2552.4	2685.4	2579.3
55°	1715.9	1972.0	2214.6	2232.9	2186.6
57.5°	1404.9	1611.0	1824.4	1978.0	1798.8
60°	1226.8	1304.9	1526.8	1556.1	1419.5
62.5°	1084.1	1097.6	1265.9	1301.2	1113.4
65°	943.9	943.9	1030.5	967.1	875.6
67.5°	774.4	846.3	848.8	784.1	731.7
70°	652.4	712.2	709.8	640.2	636.6
72.5°	531.7	584.1	600.0	564.6	578.0
75°	456.1	464.6	502.4	504.9	498.8
77.5°	413.4	401.2	430.5	430.5	422.0
80°	339.0	339.0	341.5	363.4	356.1
82.5°	265.9	265.9	261.0	254.9	259.8
85°	161.0	164.6	148.8	172.0	167.1
87.5°	73.2	65.9	78.0	65.9	61.0
90°	0.0	4.9	1.2	2.4	1.2
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



REPORT NUMBER: 766152_250MP
CATALOG NUMBER: MPQF-GS/C73-250-XXX-VL

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)