

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: E429-109_150MP

Luminaire Tested: **MPQF-GS/C73-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-109_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQF-GS/C73-150
Description: RECESSED COMMERCIAL WITH FLAT LENS
Light Source: 150 WATT PULSE-START COATED ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 13300 (1 lamp)
Luminaire Lumens: 9821.3 lumens
Efficiency: 73.8%
Efficacy: 53.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.79' x L: 1.79' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

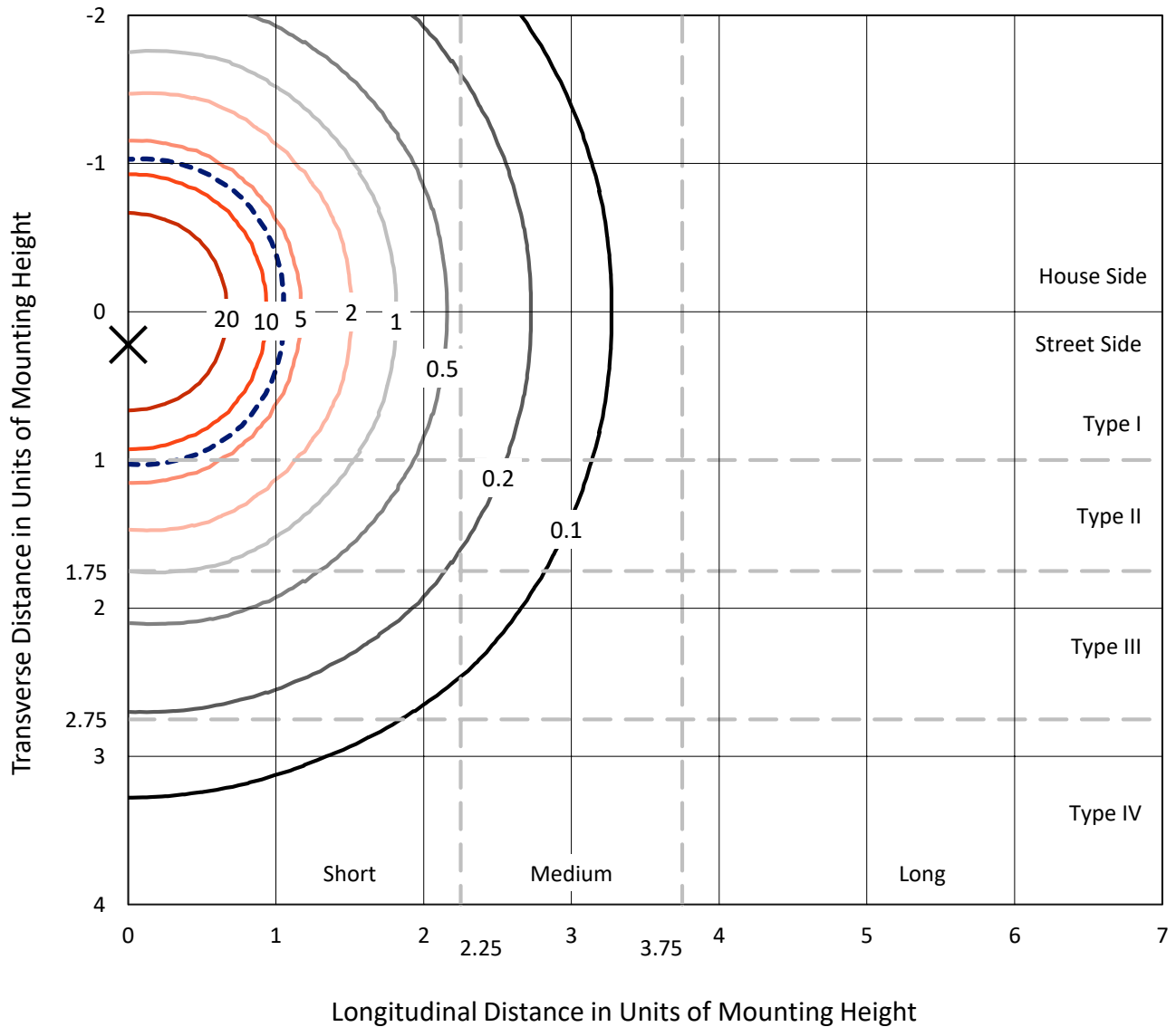
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

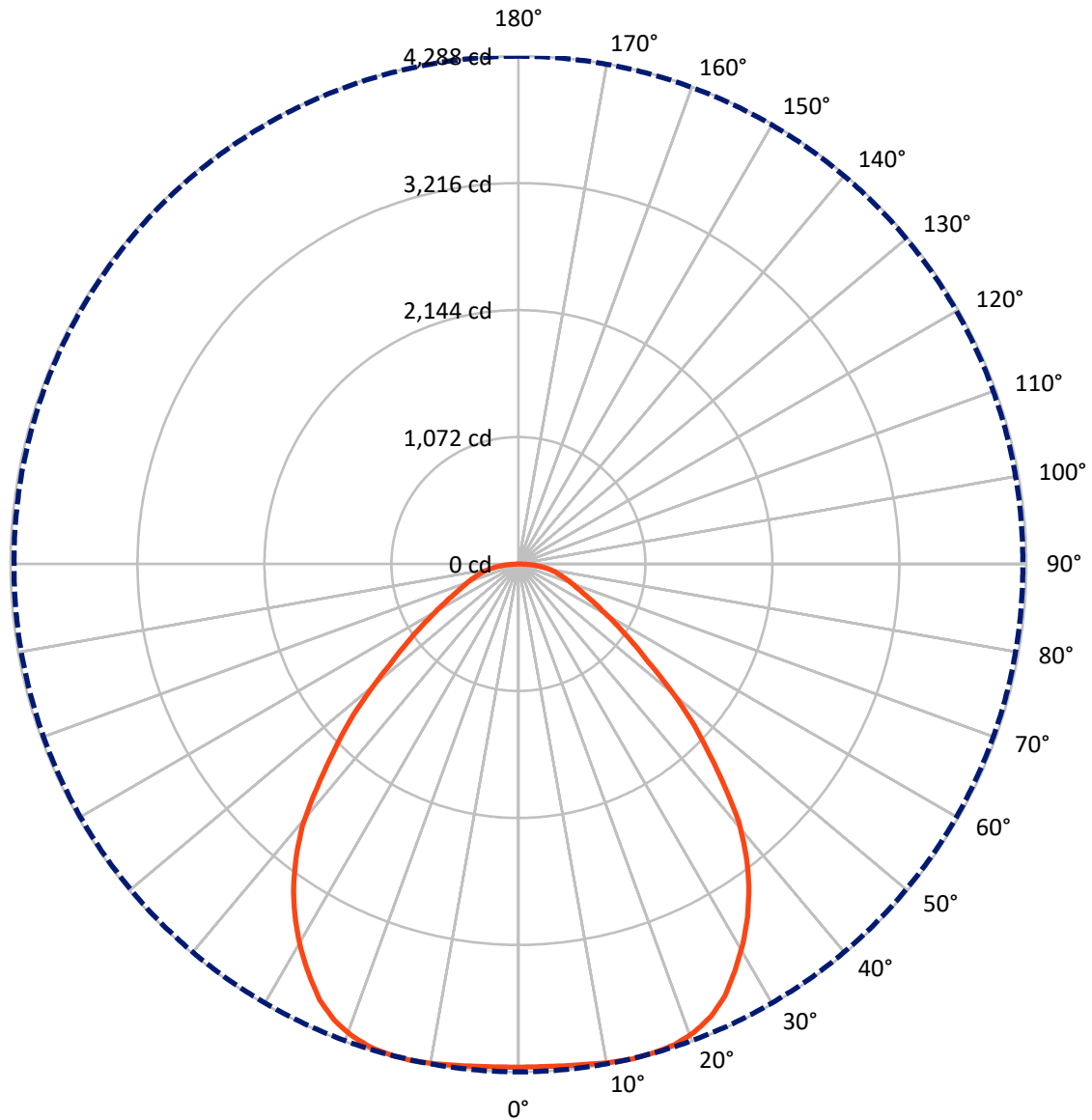
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 42.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 12.5-Deg Vertical

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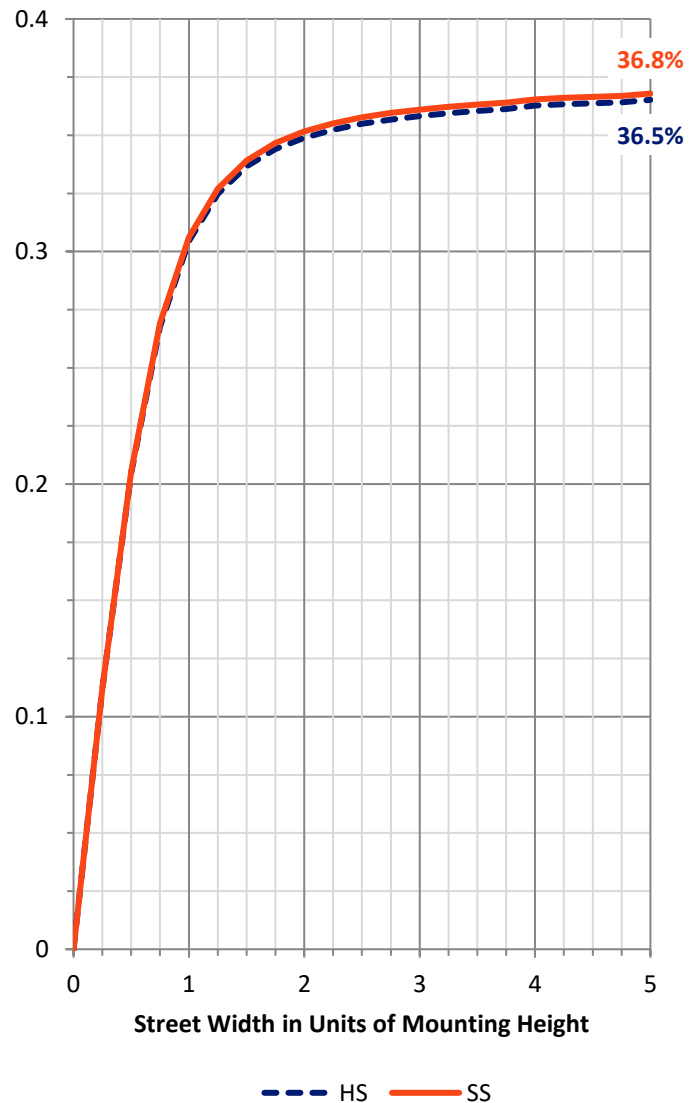
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4910.7	0.0	4910.7
	% Lamp	36.9	0.0	36.9
Street Side	Lumens	4910.7	0.0	4910.7
	% Lamp	36.9	0.0	36.9
Total	Lumens	9821.3	0.0	9821.3
	% Lamp	73.8	0.0	73.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	406.4	4.1	3.1
10°-20°	1205.5	12.3	9.1
20°-30°	1859.0	18.9	14.0
30°-40°	2124.3	21.6	16.0
40°-50°	1817.9	18.5	13.7
50°-60°	1176.4	12.0	8.8
60°-70°	688.7	7.0	5.2
70°-80°	391.9	4.0	2.9
80°-90°	151.2	1.5	1.1
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°	9821.3	100.0	73.8
0°-180°	9821.3	100.0	73.8

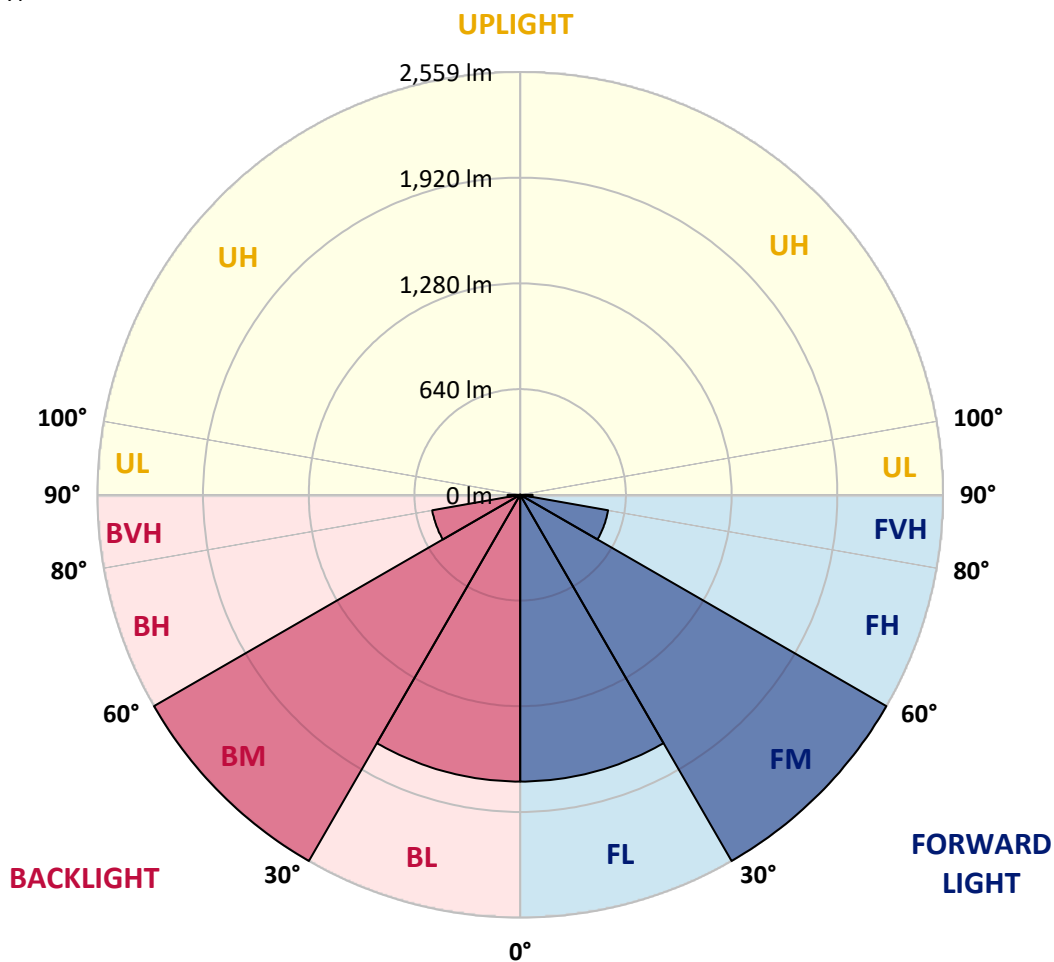


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.5	13.0			
FM	(30°-60°)	2559.3	19.2			
FH	(60°-80°)	540.3	4.1			G0/660
FVH	(80°-90°)	75.6	0.6			G1/100
BL	(0°-30°)	1735.5	13.0	B3/2500		
BM	(30°-60°)	2559.3	19.2	B3/5000		
BH	(60°-80°)	540.3	4.1	B2/1000		G0/660
BVH	(80°-90°)	75.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		3478.7	26.2			

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4248.0	4248.0	4248.0	4248.0	4248.0	4248.0	4248.0	4248.0	4248.0
2.5°	4248.9	4247.1	4248.0	4244.5	4243.6	4244.5	4248.0	4247.1	4248.9
5°	4255.1	4253.3	4252.5	4247.1	4243.6	4247.1	4252.5	4253.3	4255.1
7.5°	4264.9	4263.1	4262.2	4255.1	4250.7	4255.1	4262.2	4263.1	4264.9
10°	4279.1	4275.5	4271.1	4264.0	4258.7	4264.0	4271.1	4275.5	4279.1
12.5°	4287.9	4281.7	4276.4	4267.5	4258.7	4267.5	4276.4	4281.7	4287.9
15°	4282.6	4275.5	4271.1	4256.0	4247.1	4256.0	4271.1	4275.5	4282.6
17.5°	4266.6	4256.0	4247.1	4232.1	4223.2	4232.1	4247.1	4256.0	4266.6
20°	4223.2	4217.9	4204.6	4189.5	4181.5	4189.5	4204.6	4217.9	4223.2
22.5°	4153.1	4154.0	4143.4	4137.2	4126.5	4137.2	4143.4	4154.0	4153.1
25°	4044.1	4052.1	4059.2	4057.4	4045.9	4057.4	4059.2	4052.1	4044.1
27.5°	3891.6	3920.0	3952.8	3935.0	3910.2	3935.0	3952.8	3920.0	3891.6
30°	3730.2	3762.1	3816.2	3799.4	3744.4	3799.4	3816.2	3762.1	3730.2
32.5°	3551.1	3574.2	3645.1	3616.7	3562.6	3616.7	3645.1	3574.2	3551.1
35°	3351.6	3403.9	3476.6	3416.3	3371.1	3416.3	3476.6	3403.9	3351.6
37.5°	3123.7	3173.4	3270.9	3234.6	3163.6	3234.6	3270.9	3173.4	3123.7
40°	2866.6	2910.0	3035.9	3005.8	2932.2	3005.8	3035.9	2910.0	2866.6
42.5°	2540.3	2638.7	2749.6	2706.1	2611.2	2706.1	2749.6	2638.7	2540.3
45°	2229.1	2344.3	2450.7	2399.3	2286.7	2399.3	2450.7	2344.3	2229.1
47.5°	1952.4	2048.2	2119.1	2087.2	2027.8	2087.2	2119.1	2048.2	1952.4
50°	1651.0	1774.2	1804.4	1785.7	1734.3	1785.7	1804.4	1774.2	1651.0
52.5°	1372.6	1557.9	1545.5	1542.8	1481.6	1542.8	1545.5	1557.9	1372.6
55°	1166.9	1325.6	1301.6	1329.1	1298.1	1329.1	1301.6	1325.6	1166.9
57.5°	988.6	1127.8	1097.7	1149.1	1112.8	1149.1	1097.7	1127.8	988.6
60°	832.6	955.8	955.8	981.5	942.5	981.5	955.8	955.8	832.6
62.5°	713.8	814.0	821.1	837.9	803.3	837.9	821.1	814.0	713.8
65°	607.4	684.5	699.6	694.3	674.8	694.3	699.6	684.5	607.4
67.5°	528.5	583.4	605.6	580.8	563.9	580.8	605.6	583.4	528.5
70°	467.3	491.2	517.8	496.5	483.2	496.5	517.8	491.2	467.3
72.5°	414.1	416.7	444.2	425.6	411.4	425.6	444.2	416.7	414.1
75°	357.3	359.1	382.2	365.3	351.1	365.3	382.2	359.1	357.3
77.5°	313.0	311.2	323.6	315.7	309.4	315.7	323.6	311.2	313.0
80°	262.5	260.7	268.7	264.2	260.7	264.2	268.7	260.7	262.5
82.5°	196.8	204.8	212.8	210.1	199.5	210.1	212.8	204.8	196.8
85°	133.9	147.2	147.2	147.2	135.7	147.2	147.2	147.2	133.9
87.5°	64.7	78.9	73.6	74.5	65.6	74.5	73.6	78.9	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)