

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: E429-107_150MP

Luminaire Tested: **MPQP-S4/16/GL-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-107_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQP-S4/16/GL-150
Description: RECESSED COMMERCIAL W/SPECULAR LOUVERS
Light Source: 150 WATT PULSE-START COATED ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 13300 (1 lamp)
Luminaire Lumens: 7085.3 lumens
Efficiency: 53.3%
Efficacy: 38.3 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: B3 - U0 - G0

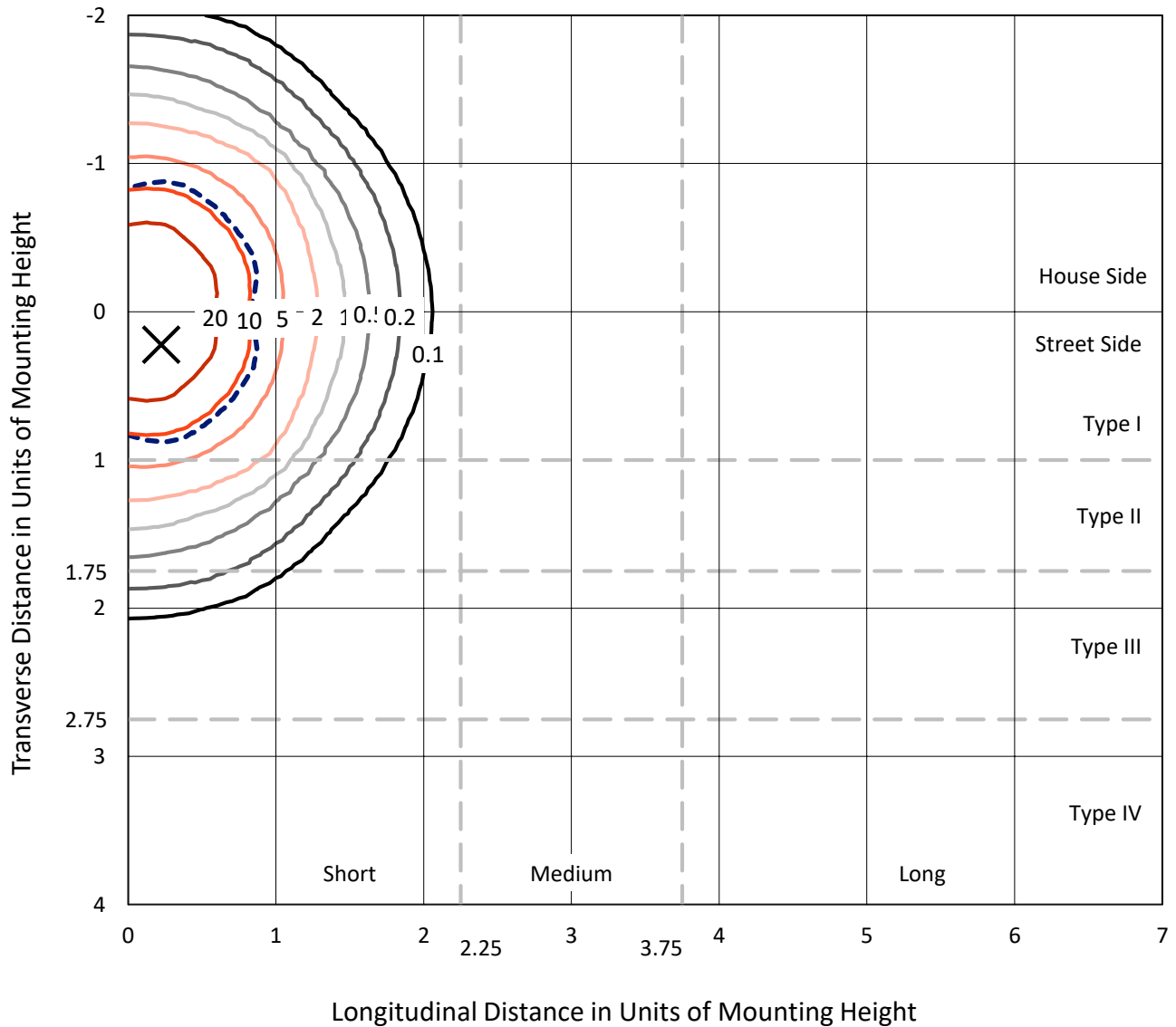
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

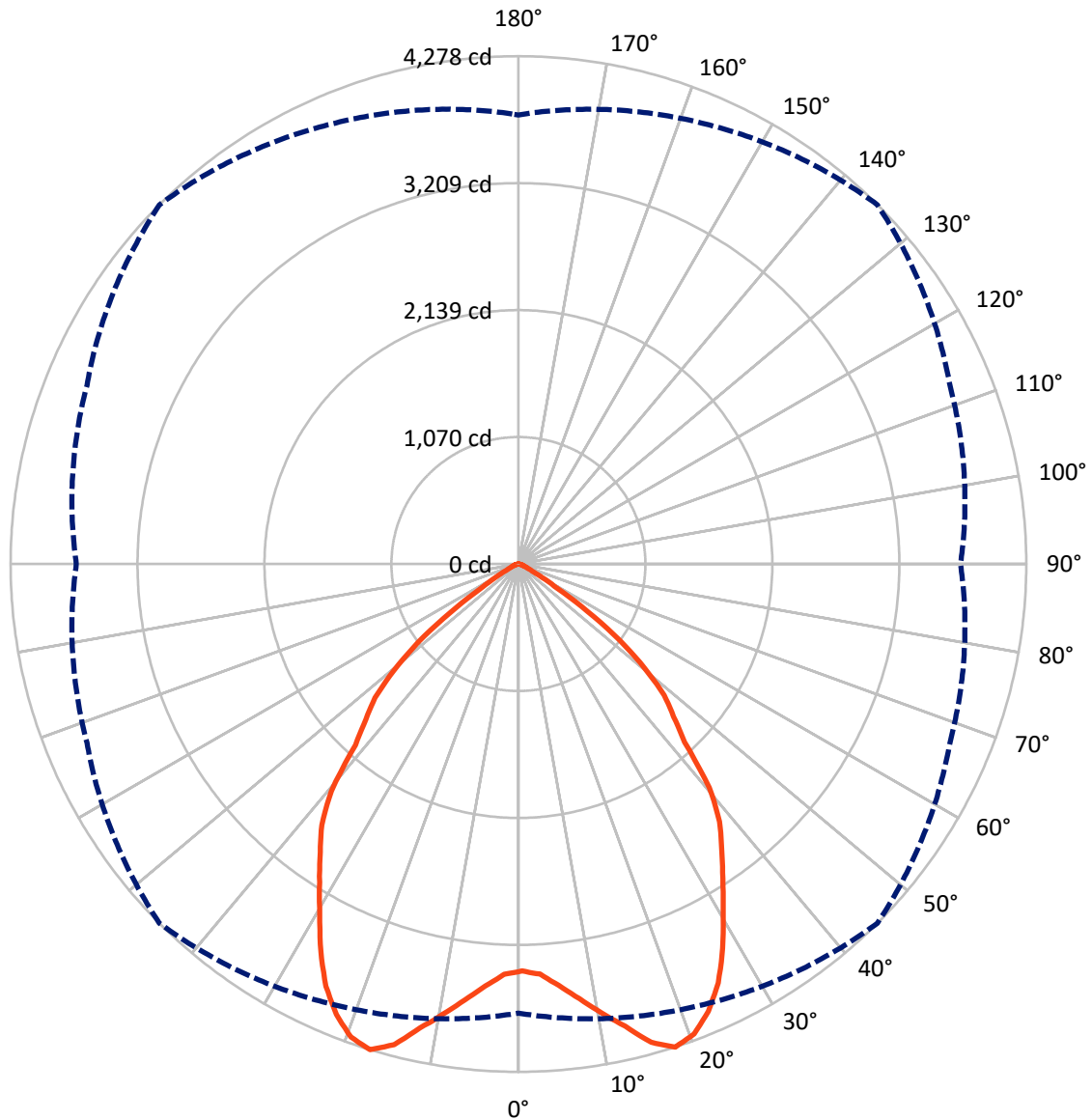
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 17.5-Deg Vertical

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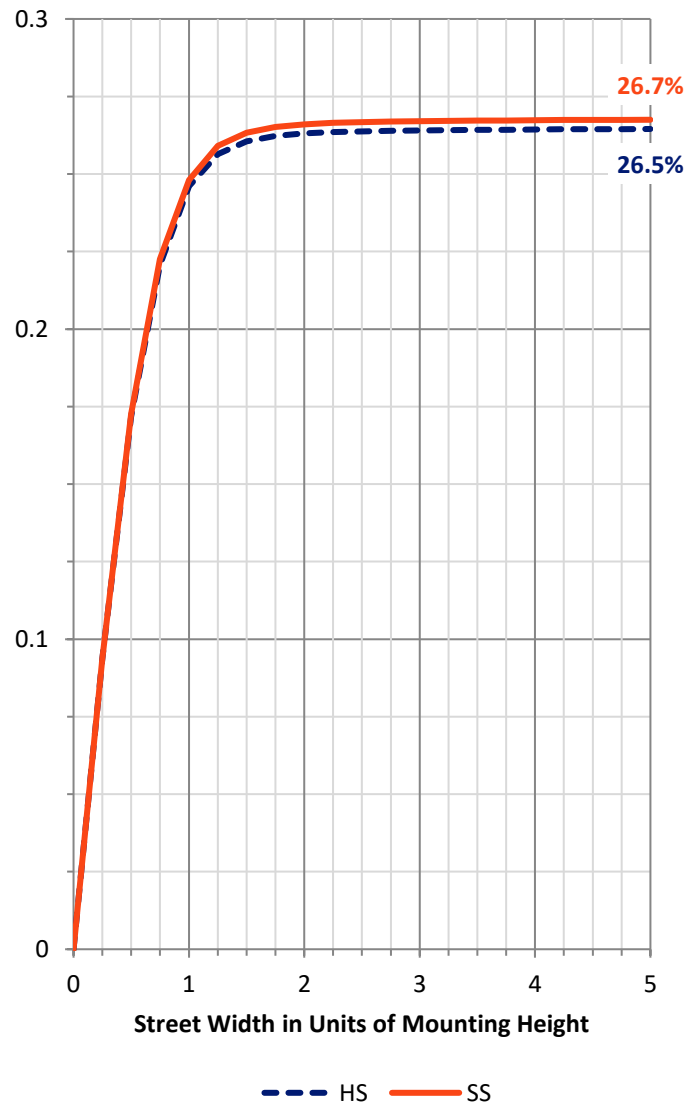
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3542.7	0.0	3542.7
	% Lamp	26.6	0.0	26.6
Street Side	Lumens	3542.7	0.0	3542.7
	% Lamp	26.6	0.0	26.6
Total	Lumens	7085.3	0.0	7085.3
	% Lamp	53.3	0.0	53.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	347.1	4.9	2.6
10°-20°	1121.7	15.8	8.4
20°-30°	1726.6	24.4	13.0
30°-40°	1789.8	25.3	13.5
40°-50°	1372.0	19.4	10.3
50°-60°	575.3	8.1	4.3
60°-70°	114.2	1.6	0.9
70°-80°	33.0	0.5	0.2
80°-90°	5.7	0.1	0.0
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°	7085.3	100.0	53.3
0°-180°	7085.3	100.0	53.3

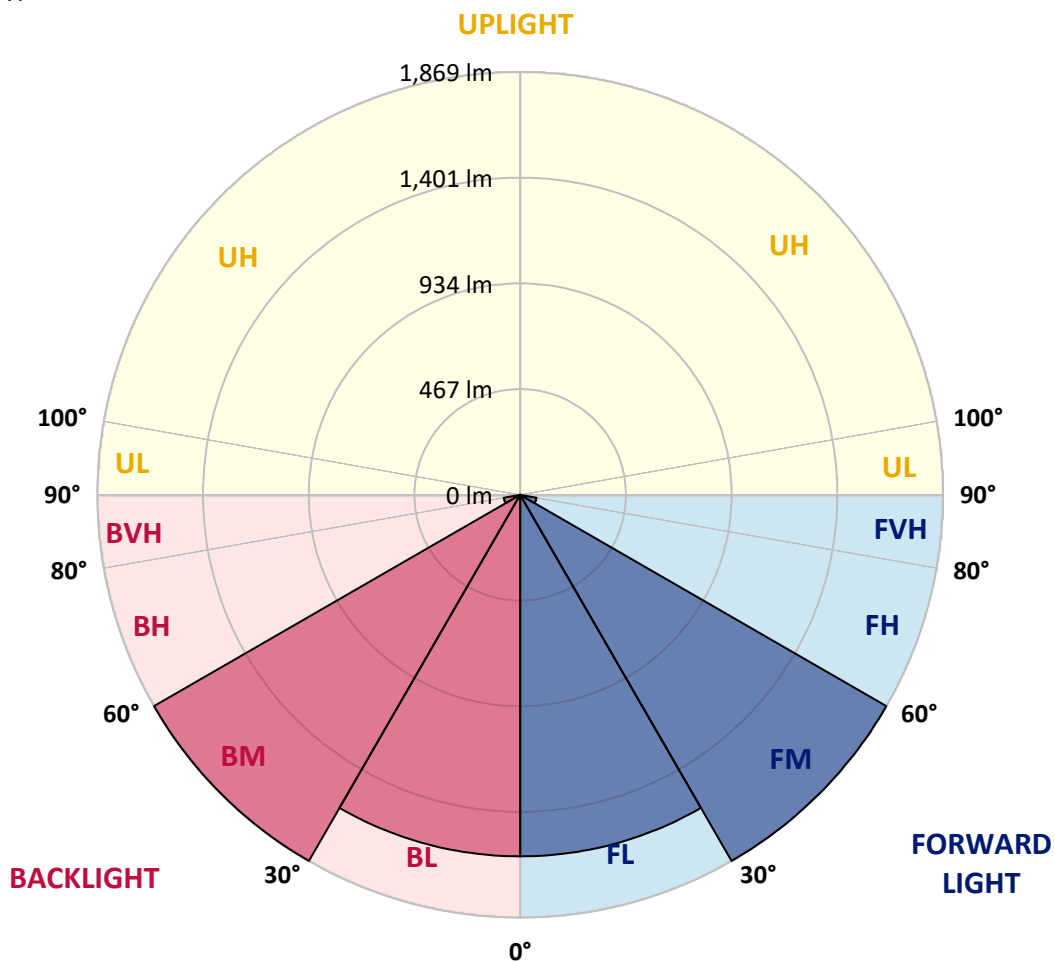


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.7	12.0			
FM	(30°-60°)	1868.5	14.0			
FH	(60°-80°)	73.6	0.6			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	1597.7	12.0	B3/2500		
BM	(30°-60°)	1868.5	14.0	B2/2500		
BH	(60°-80°)	73.6	0.6	B0/110		G0/660
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		6214.7	46.7			

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9	3427.9
2.5°	3454.5	3451.8	3458.9	3457.1	3456.2	3457.1	3458.9	3451.8	3454.5
5°	3522.7	3542.2	3566.2	3566.2	3568.8	3566.2	3566.2	3542.2	3522.7
7.5°	3614.1	3644.2	3698.3	3693.0	3669.0	3693.0	3698.3	3644.2	3614.1
10°	3740.0	3781.6	3844.6	3826.0	3787.8	3826.0	3844.6	3781.6	3740.0
12.5°	3849.0	3943.9	3996.2	3974.9	3886.3	3974.9	3996.2	3943.9	3849.0
15°	3860.5	4023.7	4181.5	4006.0	3845.5	4006.0	4181.5	4023.7	3860.5
17.5°	3783.4	4021.9	4278.2	3934.1	3724.0	3934.1	4278.2	4021.9	3783.4
20°	3645.1	3927.0	4226.7	3815.3	3575.9	3815.3	4226.7	3927.0	3645.1
22.5°	3560.9	3830.4	4092.9	3739.1	3524.5	3739.1	4092.9	3830.4	3560.9
25°	3522.7	3848.1	3909.3	3773.7	3471.3	3773.7	3909.3	3848.1	3522.7
27.5°	3451.8	3863.2	3665.5	3799.4	3414.6	3799.4	3665.5	3863.2	3451.8
30°	3239.0	3740.8	3397.7	3705.4	3255.0	3705.4	3397.7	3740.8	3239.0
32.5°	2821.4	3409.2	3161.0	3417.2	2820.5	3417.2	3161.0	3409.2	2821.4
35°	2497.7	2955.3	2946.4	2934.0	2448.1	2934.0	2946.4	2955.3	2497.7
37.5°	2274.3	2597.9	2753.1	2537.6	2217.6	2537.6	2753.1	2597.9	2274.3
40°	2102.3	2428.6	2477.3	2362.1	2067.7	2362.1	2477.3	2428.6	2102.3
42.5°	1901.9	2199.8	2050.9	2179.4	1891.3	2179.4	2050.9	2199.8	1901.9
45°	1627.9	1880.6	1831.9	1883.3	1634.1	1883.3	1831.9	1880.6	1627.9
47.5°	1325.6	1512.7	1651.9	1539.3	1309.6	1539.3	1651.9	1512.7	1325.6
50°	1019.7	1126.1	1380.5	1160.6	1037.4	1160.6	1380.5	1126.1	1019.7
52.5°	759.0	789.1	1069.3	808.6	787.4	808.6	1069.3	789.1	759.0
55°	592.3	569.2	707.6	577.2	611.8	577.2	707.6	569.2	592.3
57.5°	445.1	415.0	386.6	414.1	434.5	414.1	386.6	415.0	445.1
60°	282.8	274.0	228.8	237.6	234.1	237.6	228.8	274.0	282.8
62.5°	157.8	167.6	128.6	135.7	146.3	135.7	128.6	167.6	157.8
65°	102.0	100.2	86.9	97.5	102.9	97.5	86.9	100.2	102.0
67.5°	75.4	69.2	66.5	71.8	77.1	71.8	66.5	69.2	75.4
70°	55.0	51.4	47.9	54.1	59.4	54.1	47.9	51.4	55.0
72.5°	39.9	38.1	36.4	42.6	45.2	42.6	36.4	38.1	39.9
75°	30.1	28.4	28.4	31.0	33.7	31.0	28.4	28.4	30.1
77.5°	21.3	20.4	20.4	23.1	24.8	23.1	20.4	20.4	21.3
80°	15.1	14.2	13.3	15.1	16.8	15.1	13.3	14.2	15.1
82.5°	8.9	8.0	8.0	8.9	9.8	8.9	8.0	8.0	8.9
85°	4.4	3.5	3.5	4.4	4.4	4.4	3.5	3.5	4.4
87.5°	0.9	0.9	0.9	1.8	1.8	1.8	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)