

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: E429-106_150MP

Luminaire Tested: **MPQP-S3/9/GL-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-106_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQP-S3/9/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: 7724.3 lumens
Efficiency: 58.1%
Efficacy: 41.8 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

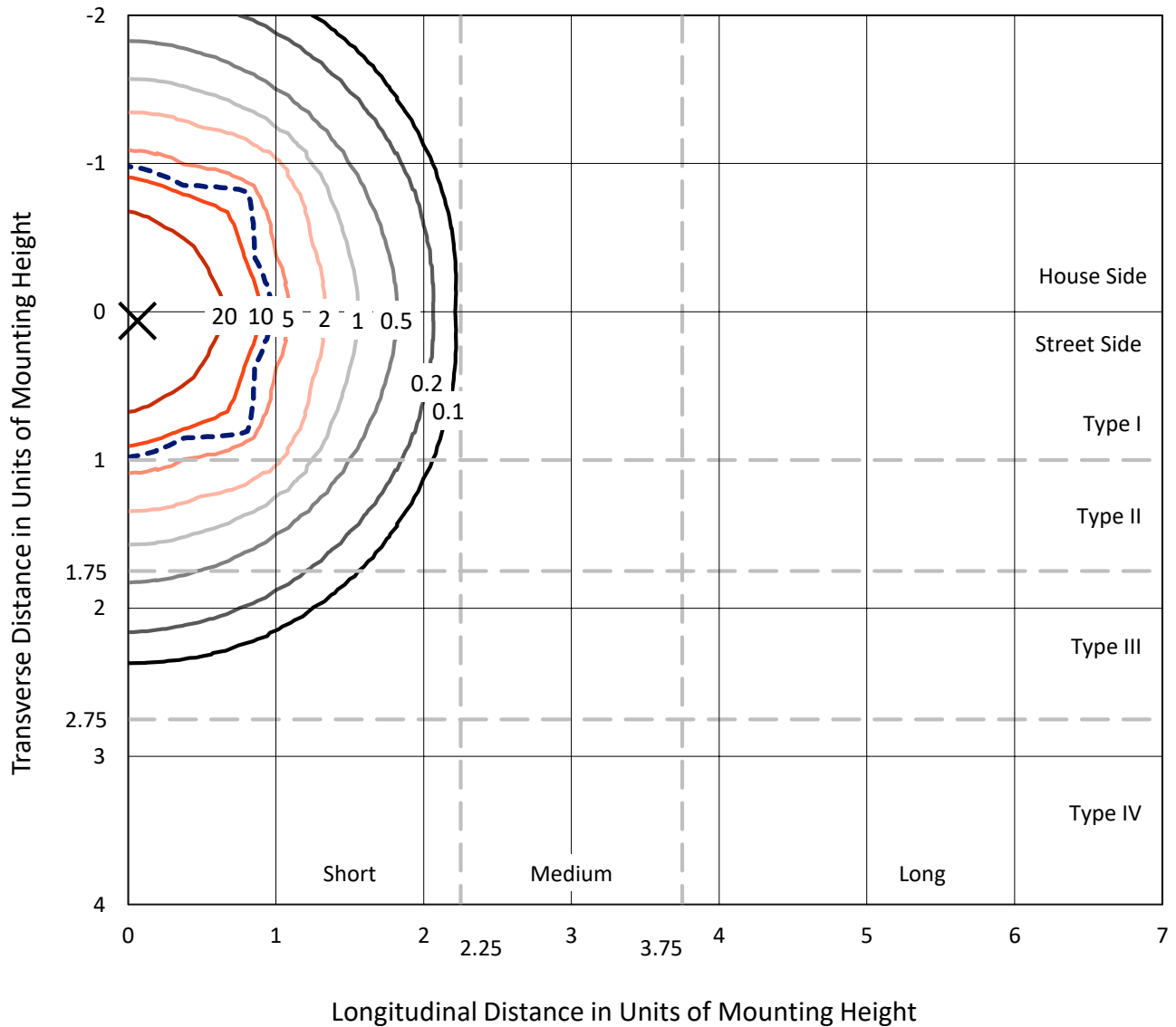
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

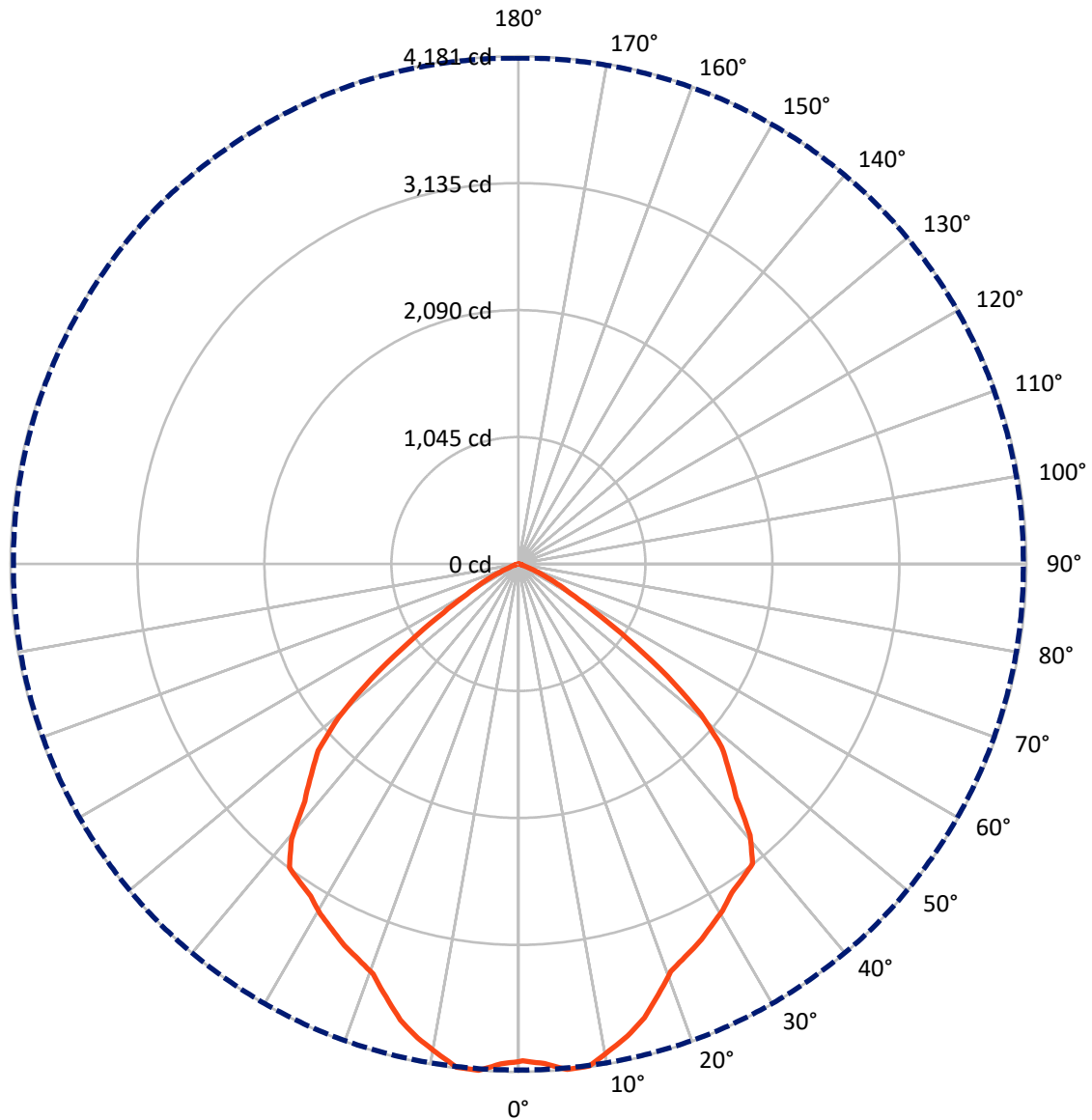
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 40.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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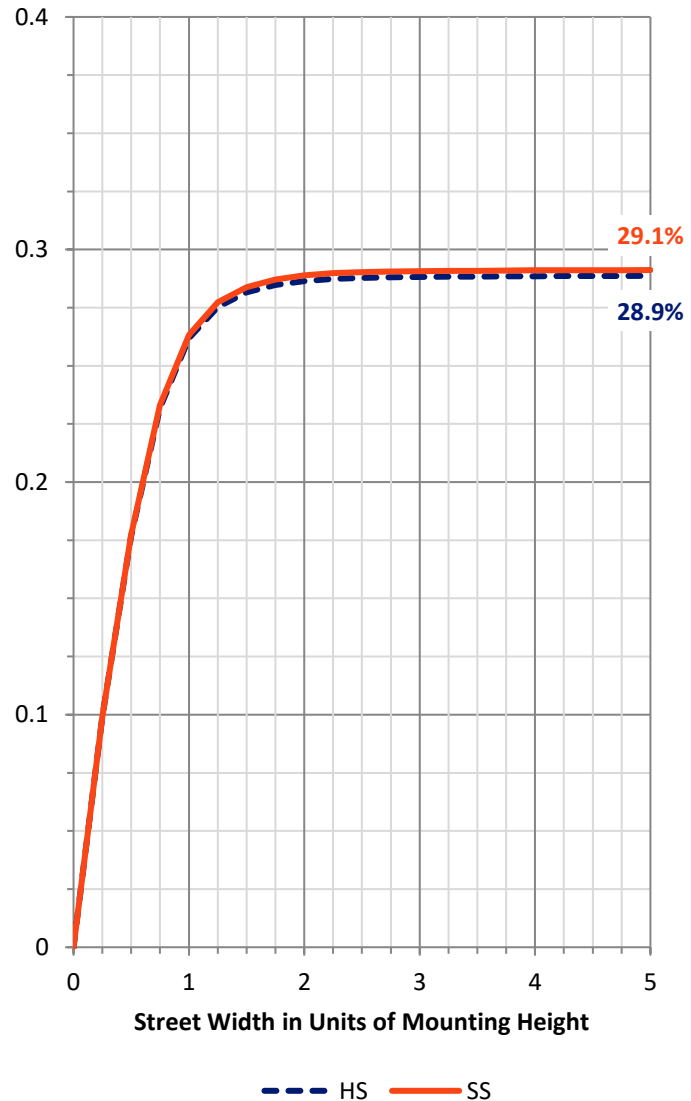
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3862.1	0.0	3862.1
	% Lamp	29.0	0.0	29.0
Street Side	Lumens	3862.1	0.0	3862.1
	% Lamp	29.0	0.0	29.0
Total	Lumens	7724.3	0.0	7724.3
	% Lamp	58.1	0.0	58.1

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	394.9	5.1	3.0
10°-20°	1122.6	14.5	8.4
20°-30°	1683.4	21.8	12.7
30°-40°	1908.1	24.7	14.3
40°-50°	1534.3	19.9	11.5
50°-60°	791.8	10.3	6.0
60°-70°	246.3	3.2	1.9
70°-80°	35.4	0.5	0.3
80°-90°	7.7	0.1	0.1
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°	7724.3	100.0	58.1
0°-180°	7724.3	100.0	58.1

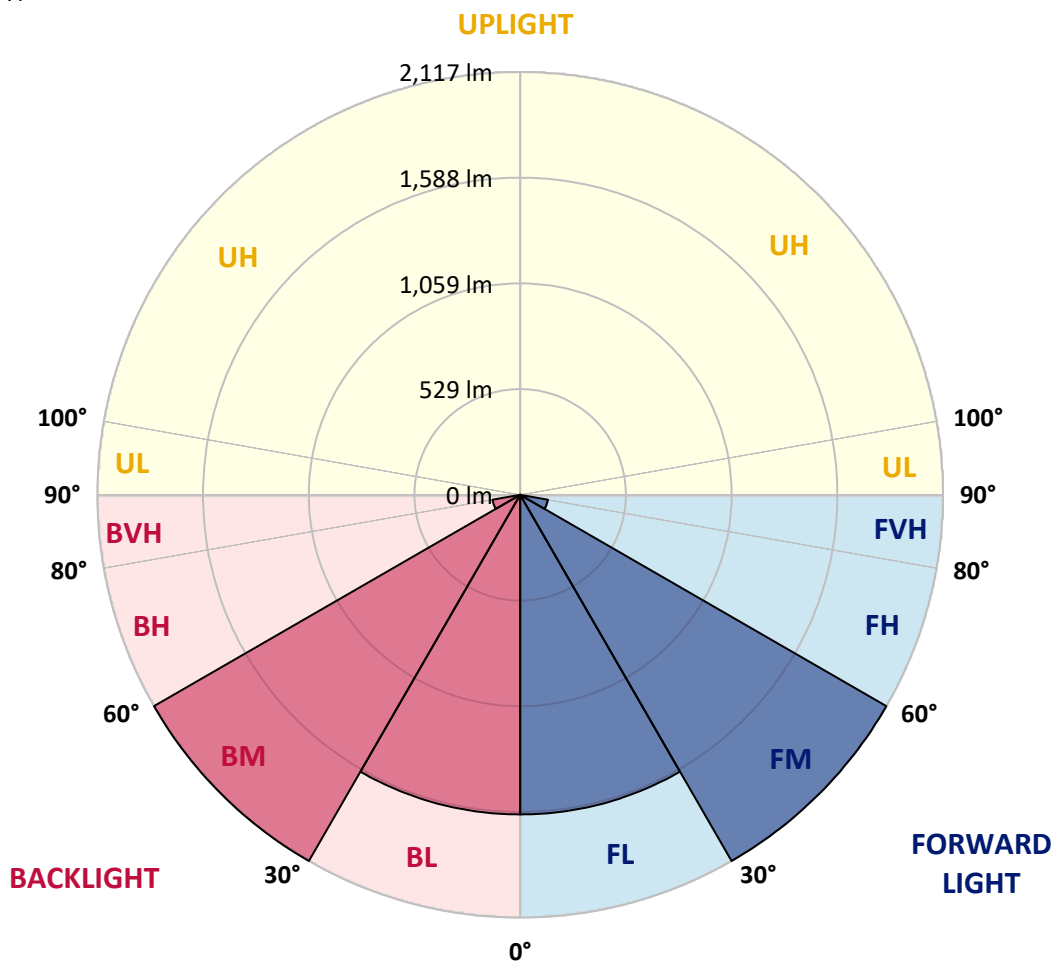


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1600.4	12.0			
FM	(30°-60°)	2117.0	15.9			
FH	(60°-80°)	140.8	1.1			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	1600.4	12.0	B3/2500		
BM	(30°-60°)	2117.0	15.9	B2/2500		
BH	(60°-80°)	140.8	1.1	B1/500		G0/660
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5575.7	41.9			

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°	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2	4090.2
2.5°	4126.5	4118.6	4116.8	4116.8	4115.0	4116.8	4116.8	4118.6	4126.5
5°	4164.7	4176.2	4180.6	4168.2	4156.7	4168.2	4180.6	4176.2	4164.7
7.5°	4134.5	4155.8	4173.5	4144.3	4115.0	4144.3	4173.5	4155.8	4134.5
10°	4113.2	4128.3	4078.7	4078.7	4053.0	4078.7	4078.7	4128.3	4113.2
12.5°	4099.1	4084.9	3988.2	4010.4	3998.9	4010.4	3988.2	4084.9	4099.1
15°	4092.9	4041.4	3877.4	3952.8	3994.4	3952.8	3877.4	4041.4	4092.9
17.5°	4087.5	3983.8	3726.7	3922.6	4012.2	3922.6	3726.7	3983.8	4087.5
20°	4031.7	3874.7	3580.4	3846.4	3968.7	3846.4	3580.4	3874.7	4031.7
22.5°	3963.4	3708.9	3511.2	3701.8	3910.2	3701.8	3511.2	3708.9	3963.4
25°	3949.2	3567.9	3451.8	3580.4	3912.9	3580.4	3451.8	3567.9	3949.2
27.5°	4004.2	3477.5	3377.3	3483.7	3927.9	3483.7	3377.3	3477.5	4004.2
30°	4017.5	3404.8	3310.8	3340.1	3828.6	3340.1	3310.8	3404.8	4017.5
32.5°	3703.6	3248.7	3224.8	3114.0	3509.4	3114.0	3224.8	3248.7	3703.6
35°	3321.5	2990.7	3176.9	2842.7	3128.2	2842.7	3176.9	2990.7	3321.5
37.5°	3006.7	2668.9	3130.8	2545.6	2889.6	2545.6	3130.8	2668.9	3006.7
40°	2759.3	2385.1	2934.9	2311.5	2674.2	2311.5	2934.9	2385.1	2759.3
42.5°	2390.5	2109.4	2628.1	2111.2	2374.5	2111.2	2628.1	2109.4	2390.5
45°	1987.0	1784.9	2432.1	1821.2	1961.3	1821.2	2432.1	1784.9	1987.0
47.5°	1557.9	1444.4	2253.0	1479.8	1557.9	1479.8	2253.0	1444.4	1557.9
50°	1242.2	1220.9	1946.2	1216.5	1225.4	1216.5	1946.2	1220.9	1242.2
52.5°	995.7	988.6	1537.5	972.7	937.2	972.7	1537.5	988.6	995.7
55°	802.4	797.1	1095.0	757.2	747.5	757.2	1095.0	797.1	802.4
57.5°	627.8	634.0	735.9	598.5	605.6	598.5	735.9	634.0	627.8
60°	508.9	485.0	489.4	472.6	512.5	472.6	489.4	485.0	508.9
62.5°	391.0	374.2	360.0	361.8	372.4	361.8	360.0	374.2	391.0
65°	277.5	257.1	235.9	221.7	165.8	221.7	235.9	257.1	277.5
67.5°	151.6	156.1	137.4	92.2	64.7	92.2	137.4	156.1	151.6
70°	65.6	75.4	74.5	51.4	49.7	51.4	74.5	75.4	65.6
72.5°	44.3	44.3	41.7	39.0	38.1	39.0	41.7	44.3	44.3
75°	31.0	23.9	30.1	30.1	30.1	30.1	30.1	23.9	31.0
77.5°	22.2	23.9	23.1	23.9	23.1	23.9	23.1	23.9	22.2
80°	16.0	16.8	16.8	16.8	17.7	16.8	16.8	16.8	16.0
82.5°	9.8	10.6	10.6	11.5	11.5	11.5	10.6	10.6	9.8
85°	5.3	6.2	6.2	7.1	7.1	7.1	6.2	6.2	5.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)