

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: E429-98_150MP

Luminaire Tested: **MPQP-S4/9/GL-150**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-98_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQP-S4/9/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: 8062.4 lumens
Efficiency: 60.6%
Efficacy: 43.6 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

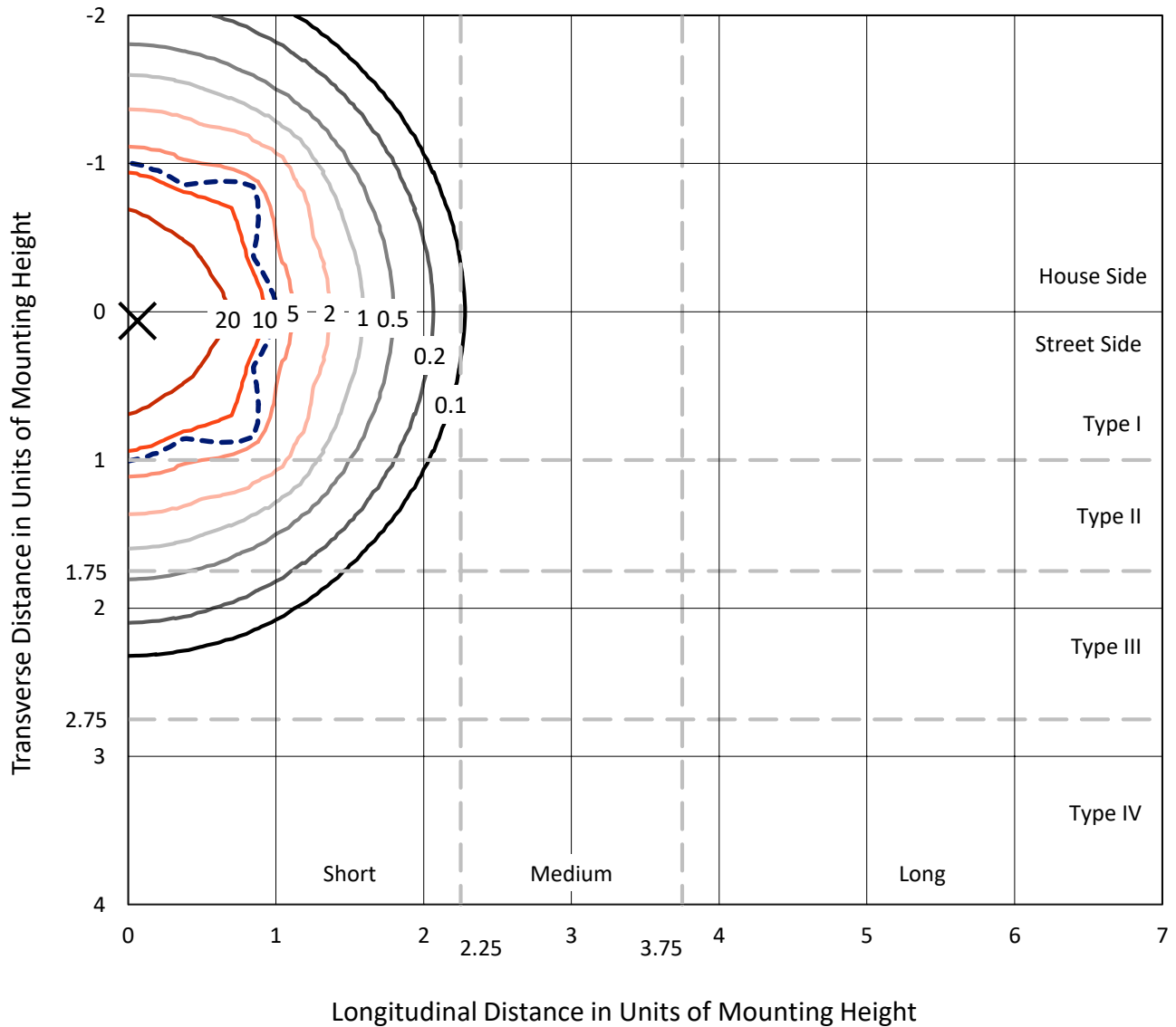
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: E429-98_150MP
 CATALOG NUMBER: MPQP-S4/9/GL-150

Iso-Footcandle Lines of Horizontal Illumination

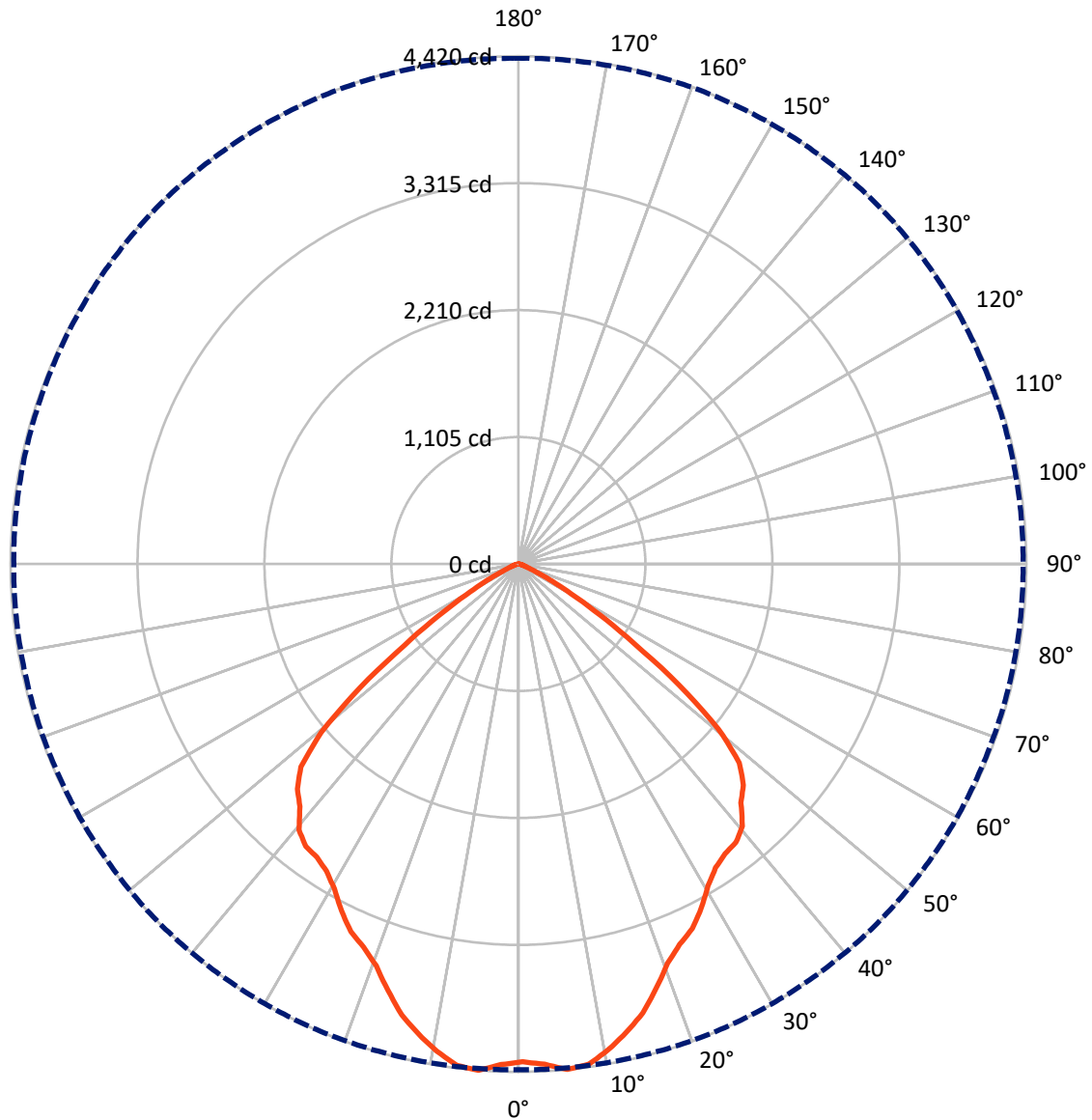
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 43.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: E429-98_150MP
CATALOG NUMBER: MPQP-S4/9/GL-150

Luminous Intensity Polar Plot



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

REPORT NUMBER: E429-98_150MP
 CATALOG NUMBER: MPQP-S4/9/GL-150

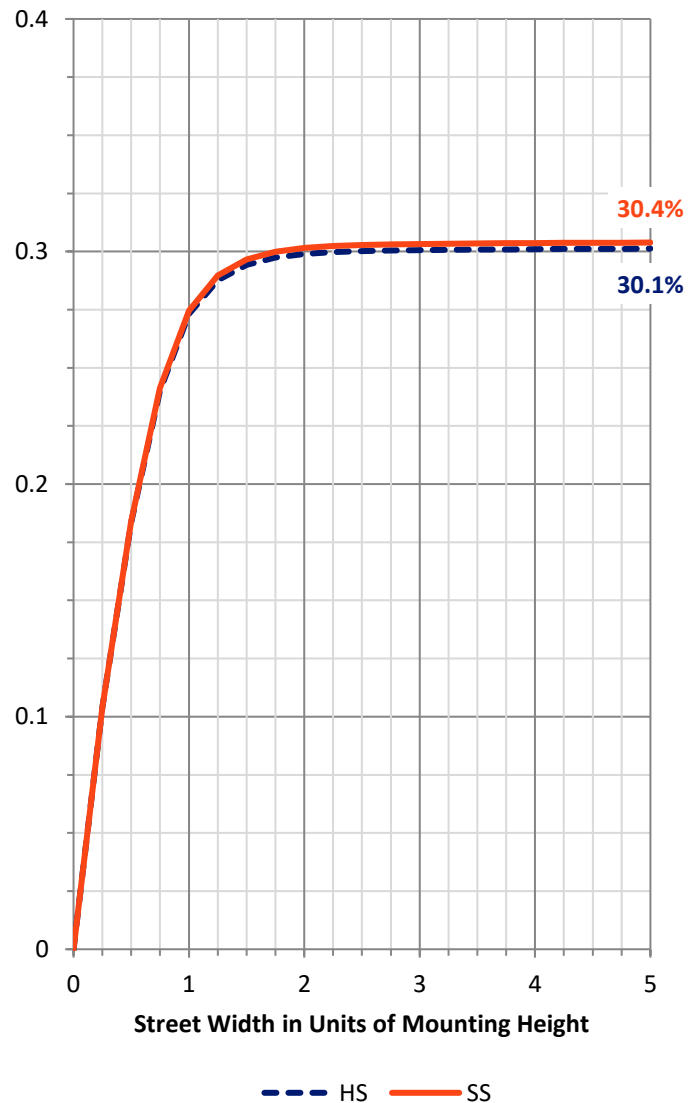
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4031.2	0.0	4031.2
	% Lamp	30.3	0.0	30.3
Street Side	Lumens	4031.2	0.0	4031.2
	% Lamp	30.3	0.0	30.3
Total	Lumens	8062.4	0.0	8062.4
	% Lamp	60.6	0.0	60.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	416.7	5.2	3.1
10°-20°	1173.1	14.6	8.8
20°-30°	1703.8	21.1	12.8
30°-40°	1944.2	24.1	14.6
40°-50°	1674.4	20.8	12.6
50°-60°	866.9	10.8	6.5
60°-70°	229.1	2.8	1.7
70°-80°	45.6	0.6	0.3
80°-90°	8.5	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°	8062.4	100.0	60.6
0°-180°	8062.4	100.0	60.6

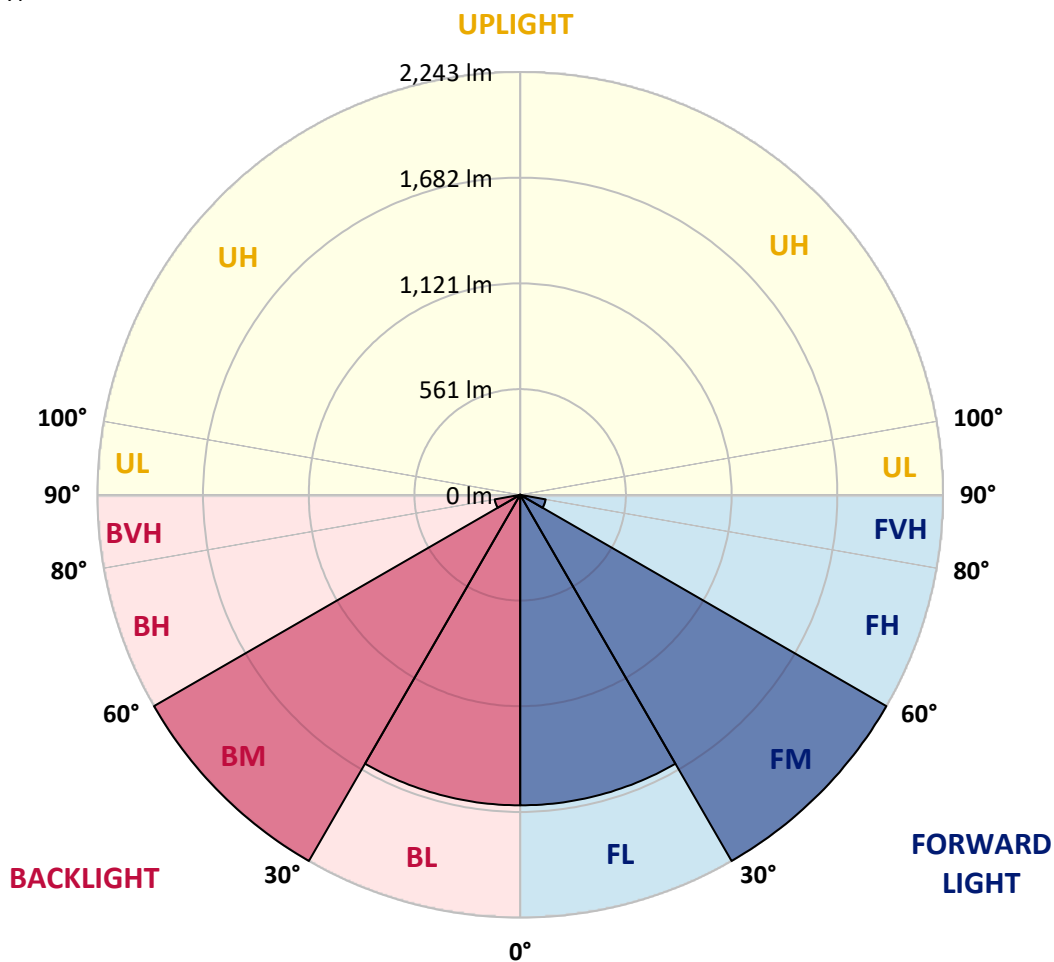


REPORT NUMBER: E429-98_150MP
 CATALOG NUMBER: MPQP-S4/9/GL-150

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.8	12.4			
FM	(30°-60°)	2242.7	16.9			
FH	(60°-80°)	137.4	1.0			G0/660
FVH	(80°-90°)	4.3	0.0			G0/10
BL	(0°-30°)	1646.8	12.4	B3/2500		
BM	(30°-60°)	2242.7	16.9	B2/2500		
BH	(60°-80°)	137.4	1.0	B1/500		G0/660
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5237.6	39.4			

BUG Rating: B3-U0-G0
 Type V Short





REPORT NUMBER: E429-98_150MP
 CATALOG NUMBER: MPQP-S4/9/GL-150

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3	4332.3
2.5°	4354.4	4354.4	4358.9	4356.2	4359.7	4356.2	4358.9	4354.4	4354.4
5°	4401.4	4416.5	4420.0	4402.3	4392.5	4402.3	4420.0	4416.5	4401.4
7.5°	4365.1	4403.2	4396.1	4368.6	4334.0	4368.6	4396.1	4403.2	4365.1
10°	4311.0	4326.9	4298.6	4288.8	4259.5	4288.8	4298.6	4326.9	4311.0
12.5°	4290.6	4253.3	4181.5	4227.6	4215.2	4227.6	4181.5	4253.3	4290.6
15°	4313.6	4213.4	4053.8	4160.2	4184.2	4160.2	4053.8	4213.4	4313.6
17.5°	4308.3	4160.2	3880.9	4089.3	4174.4	4089.3	3880.9	4160.2	4308.3
20°	4190.4	4016.6	3708.9	3935.9	4127.4	3935.9	3708.9	4016.6	4190.4
22.5°	4052.1	3774.5	3594.5	3740.8	4060.0	3740.8	3594.5	3774.5	4052.1
25°	4034.3	3567.9	3515.6	3570.6	4042.3	3570.6	3515.6	3567.9	4034.3
27.5°	4043.2	3440.3	3389.7	3433.2	4096.4	3433.2	3389.7	3440.3	4043.2
30°	4045.9	3339.2	3249.6	3327.7	4126.5	3327.7	3249.6	3339.2	4045.9
32.5°	3767.4	3184.9	3150.3	3190.2	3772.8	3190.2	3150.3	3184.9	3767.4
35°	3473.1	2954.4	3097.1	2936.6	3349.8	2936.6	3097.1	2954.4	3473.1
37.5°	3284.2	2714.1	3075.0	2648.5	3079.4	2648.5	3075.0	2714.1	3284.2
40°	3084.7	2500.4	3000.5	2417.9	2881.7	2417.9	3000.5	2500.4	3084.7
42.5°	2667.1	2222.0	2840.0	2180.3	2622.8	2180.3	2840.0	2222.0	2667.1
45°	2217.6	1933.8	2744.2	1928.5	2243.3	1928.5	2744.2	1933.8	2217.6
47.5°	1762.7	1595.1	2588.2	1602.2	1788.4	1602.2	2588.2	1595.1	1762.7
50°	1350.4	1294.5	2255.7	1303.4	1388.5	1303.4	2255.7	1294.5	1350.4
52.5°	1066.7	1040.9	1751.2	1025.9	1069.3	1025.9	1751.2	1040.9	1066.7
55°	871.6	850.3	1216.5	824.6	858.3	824.6	1216.5	850.3	871.6
57.5°	706.7	676.5	835.2	659.7	688.1	659.7	835.2	676.5	706.7
60°	491.2	493.9	527.6	482.3	485.9	482.3	527.6	493.9	491.2
62.5°	351.1	322.7	331.6	321.9	323.6	321.9	331.6	322.7	351.1
65°	224.3	211.9	190.6	185.3	195.1	185.3	190.6	211.9	224.3
67.5°	129.5	128.6	109.9	113.5	115.3	113.5	109.9	128.6	129.5
70°	83.3	80.7	70.9	75.4	79.8	75.4	70.9	80.7	83.3
72.5°	60.3	56.7	51.4	54.1	58.5	54.1	51.4	56.7	60.3
75°	41.7	39.9	37.2	39.9	42.6	39.9	37.2	39.9	41.7
77.5°	29.3	29.3	28.4	29.3	31.9	29.3	28.4	29.3	29.3
80°	20.4	20.4	19.5	20.4	23.1	20.4	19.5	20.4	20.4
82.5°	12.4	11.5	12.4	12.4	14.2	12.4	12.4	11.5	12.4
85°	6.2	6.2	6.2	6.2	7.1	6.2	6.2	6.2	6.2
87.5°	1.8	1.8	2.7	2.7	2.7	2.7	2.7	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)