

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: E429-96\_150MP

Luminaire Tested: **MPQP-S3/16/GL-150**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: E429-96\_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: MPQP-S3/16/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: 7389.6 lumens  
Efficiency: 55.6%  
Efficacy: 39.9 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

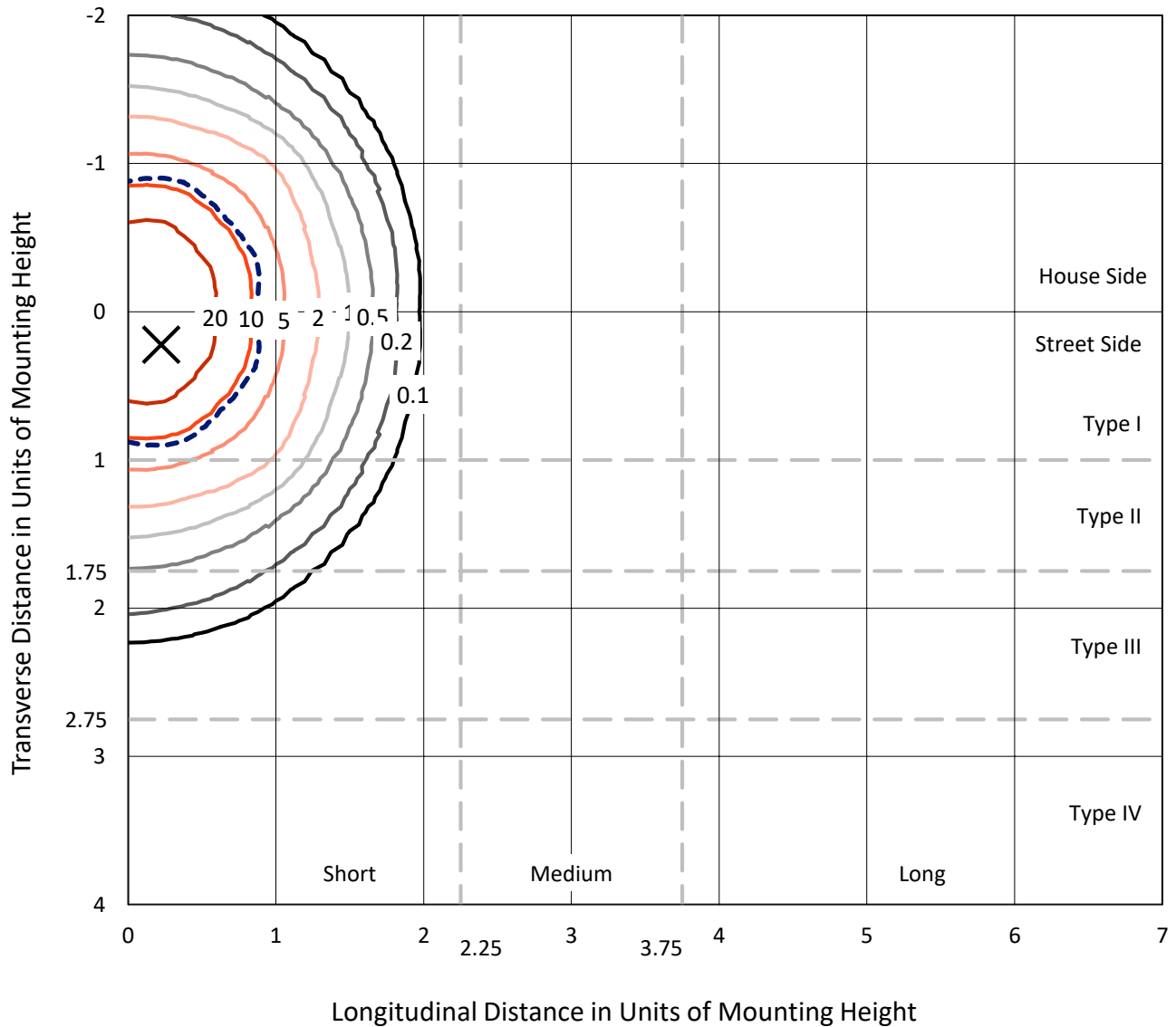
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

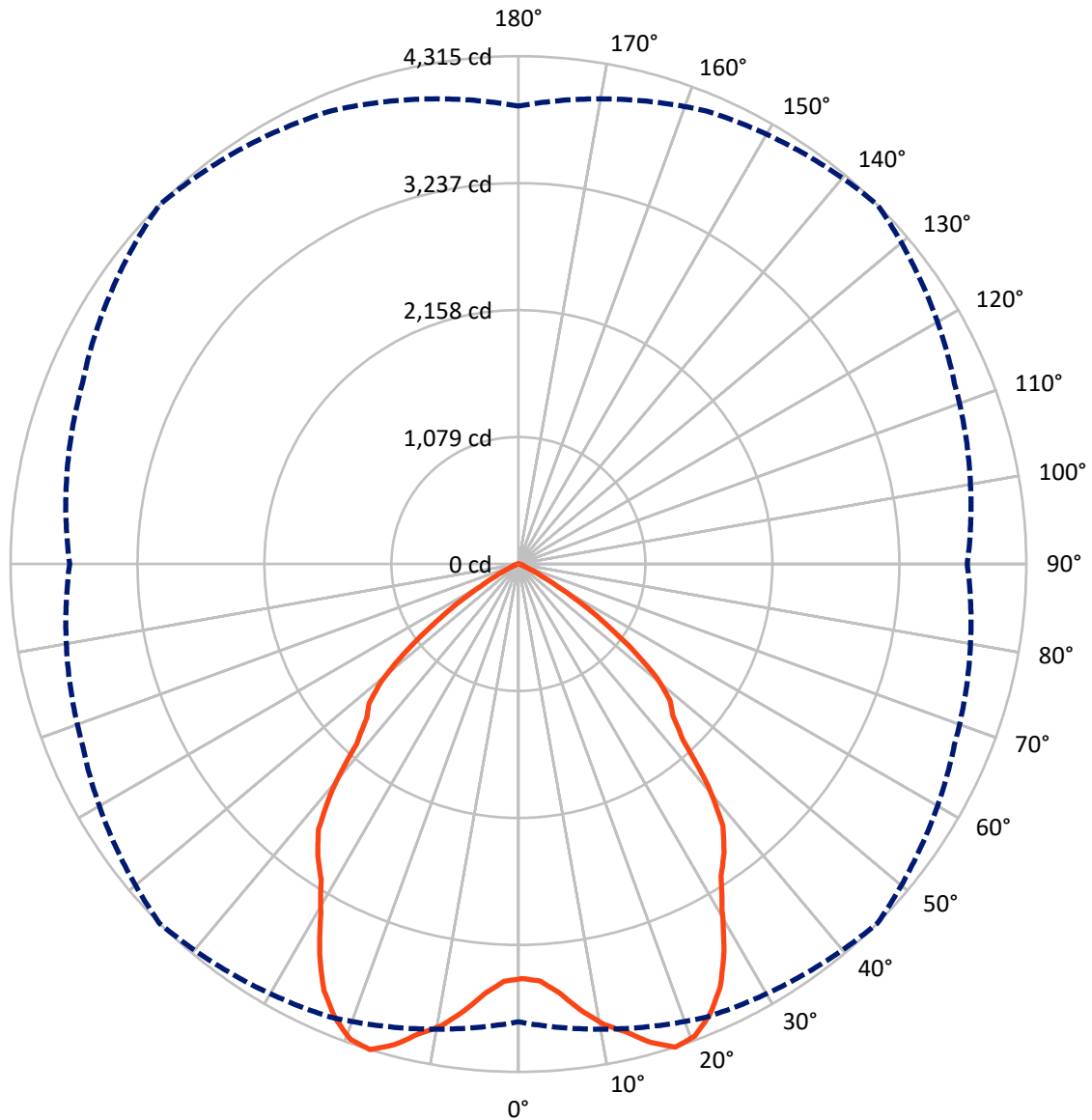
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 38 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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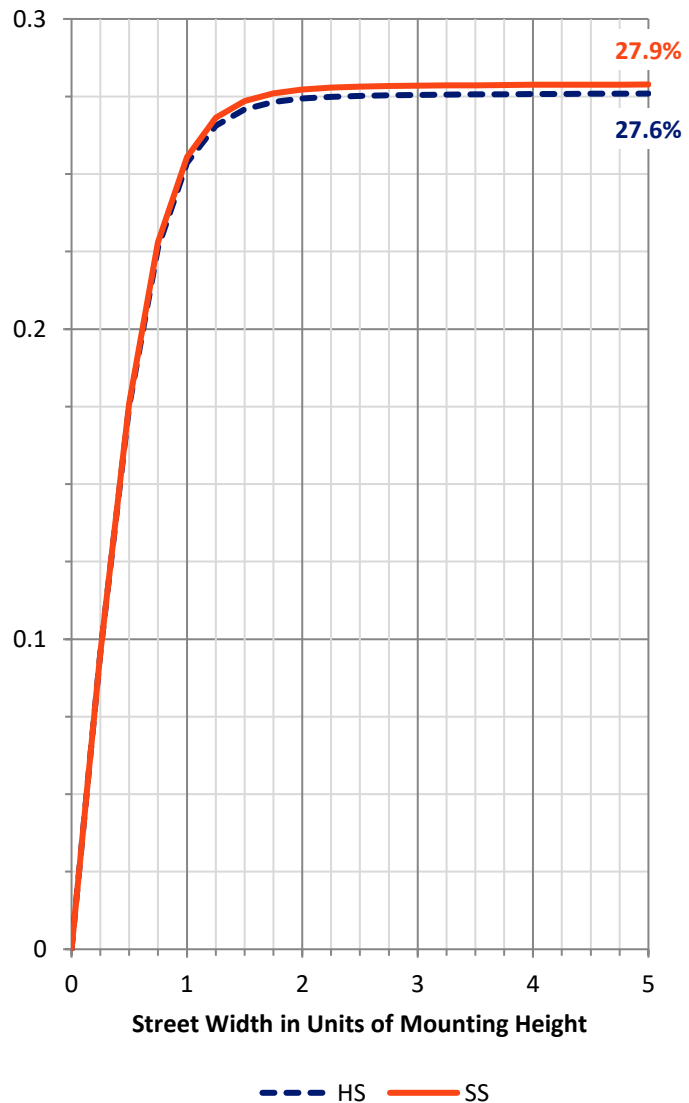
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3694.8	0.0	3694.8
	% Lamp	27.8	0.0	27.8
<b>Street Side</b>	Lumens	3694.8	0.0	3694.8
	% Lamp	27.8	0.0	27.8
<b>Total</b>	Lumens	7389.6	0.0	7389.6
	% Lamp	55.6	0.0	55.6

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	357.7	4.8	2.7
10°-20°	1146.8	15.5	8.6
20°-30°	1771.7	24.0	13.3
30°-40°	1824.3	24.7	13.7
40°-50°	1427.9	19.3	10.7
50°-60°	679.8	9.2	5.1
60°-70°	145.2	2.0	1.1
70°-80°	30.0	0.4	0.2
80°-90°	6.3	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°	7389.6	100.0	55.6
0°-180°	7389.6	100.0	55.6

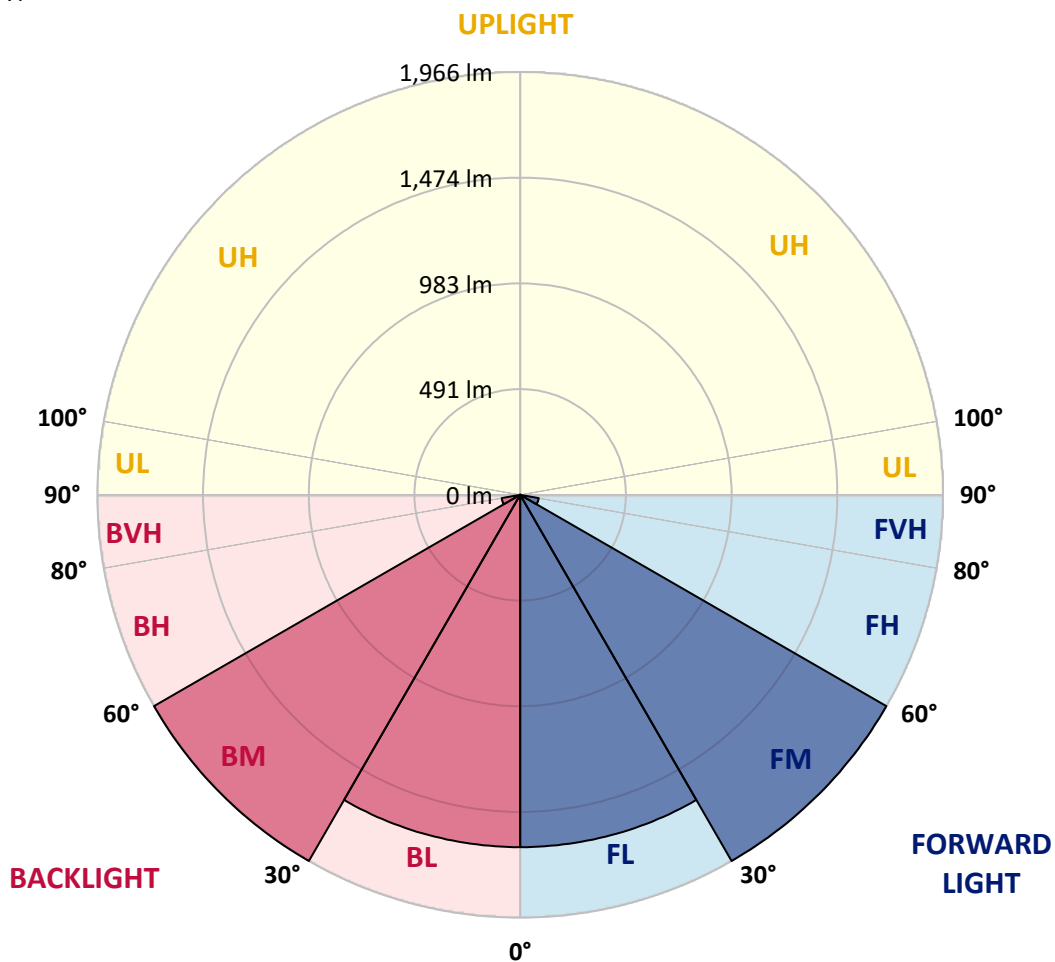


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.1	12.3			
FM (30°-60°)	1966.0	14.8			
FH (60°-80°)	87.6	0.7			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	1638.1	12.3	B3/2500		
BM (30°-60°)	1966.0	14.8	B2/2500		
BH (60°-80°)	87.6	0.7	B0/110		G0/660
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	5910.4	44.4			

**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°	3521.8	3521.8	3521.8	3521.8	3521.8	3521.8	3521.8	3521.8	3521.8
2.5°	3550.2	3549.3	3547.6	3549.3	3538.7	3549.3	3547.6	3549.3	3550.2
5°	3628.2	3647.7	3661.9	3675.2	3661.9	3675.2	3661.9	3647.7	3628.2
7.5°	3724.0	3768.3	3830.4	3819.8	3802.9	3819.8	3830.4	3768.3	3724.0
10°	3821.5	3889.8	3977.6	3935.9	3890.7	3935.9	3977.6	3889.8	3821.5
12.5°	3927.0	4029.0	4082.2	4027.2	3942.1	4027.2	4082.2	4029.0	3927.0
15°	3957.2	4132.8	4219.6	4048.5	3900.4	4048.5	4219.6	4132.8	3957.2
17.5°	3890.7	4167.3	4315.4	4010.4	3813.6	4010.4	4315.4	4167.3	3890.7
20°	3779.9	4116.8	4282.6	3952.8	3729.3	3952.8	4282.6	4116.8	3779.9
22.5°	3695.6	4025.5	4159.4	3917.3	3685.9	3917.3	4159.4	4025.5	3695.6
25°	3600.8	3978.5	3982.9	3933.3	3620.3	3933.3	3982.9	3978.5	3600.8
27.5°	3520.1	3930.6	3722.2	3865.0	3494.4	3865.0	3722.2	3930.6	3520.1
30°	3372.0	3809.1	3410.1	3633.6	3227.5	3633.6	3410.1	3809.1	3372.0
32.5°	3012.9	3572.4	3161.9	3230.1	2801.0	3230.1	3161.9	3572.4	3012.9
35°	2689.3	3174.3	3008.5	2760.2	2447.2	2760.2	3008.5	3174.3	2689.3
37.5°	2481.8	2818.7	2821.4	2475.6	2288.5	2475.6	2821.4	2818.7	2481.8
40°	2279.6	2598.8	2486.2	2394.0	2198.0	2394.0	2486.2	2598.8	2279.6
42.5°	2027.8	2299.1	2053.5	2245.0	1986.1	2245.0	2053.5	2299.1	2027.8
45°	1756.5	1947.1	1838.9	1953.3	1703.3	1953.3	1838.9	1947.1	1756.5
47.5°	1420.4	1596.0	1734.3	1579.2	1341.5	1579.2	1734.3	1596.0	1420.4
50°	1132.3	1246.7	1527.7	1205.0	1029.4	1205.0	1527.7	1246.7	1132.3
52.5°	891.1	944.3	1226.3	864.5	807.8	864.5	1226.3	944.3	891.1
55°	718.2	704.9	903.5	656.1	676.5	656.1	903.5	704.9	718.2
57.5°	539.1	540.9	632.2	501.0	501.9	501.0	632.2	540.9	539.1
60°	395.5	382.2	369.7	316.5	224.3	316.5	369.7	382.2	395.5
62.5°	297.0	252.7	215.5	140.1	109.1	140.1	215.5	252.7	297.0
65°	180.9	161.4	110.8	83.3	78.9	83.3	110.8	161.4	180.9
67.5°	78.9	88.7	63.8	63.0	61.2	63.0	63.8	88.7	78.9
70°	48.8	51.4	47.0	47.9	47.9	47.9	47.0	51.4	48.8
72.5°	34.6	35.5	34.6	37.2	37.2	37.2	34.6	35.5	34.6
75°	23.9	25.7	26.6	28.4	29.3	28.4	26.6	25.7	23.9
77.5°	17.7	18.6	19.5	22.2	21.3	22.2	19.5	18.6	17.7
80°	10.6	13.3	14.2	16.0	16.0	16.0	14.2	13.3	10.6
82.5°	6.2	8.0	8.9	10.6	10.6	10.6	8.9	8.0	6.2
85°	3.5	4.4	5.3	6.2	6.2	6.2	5.3	4.4	3.5
87.5°	0.9	1.8	1.8	1.8	2.7	1.8	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)