

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: E429-97_150MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E429-97_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPQP-S3/9-150
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: 8049.8 lumens
Efficiency: 60.5%
Efficacy: 43.5 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

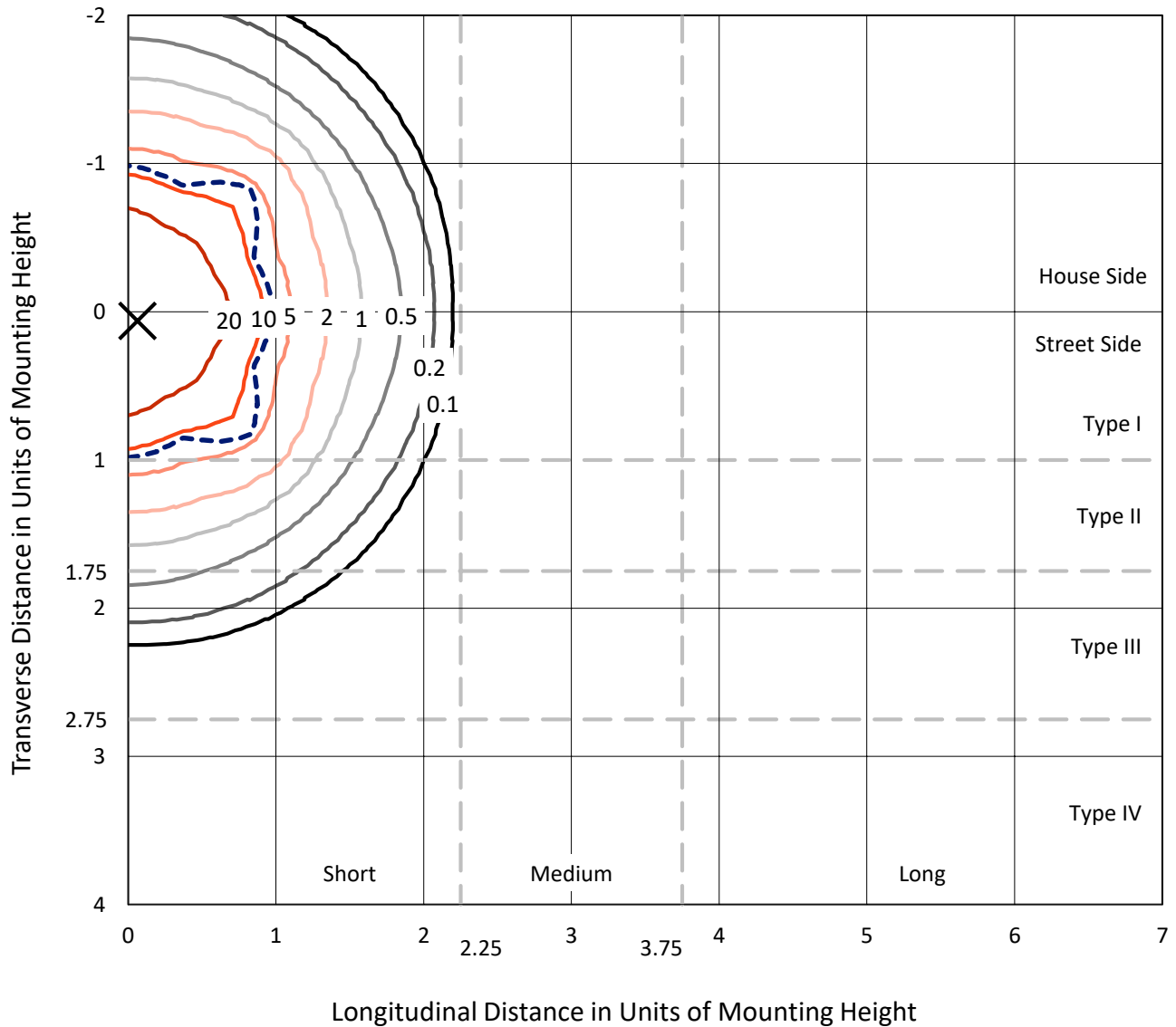
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

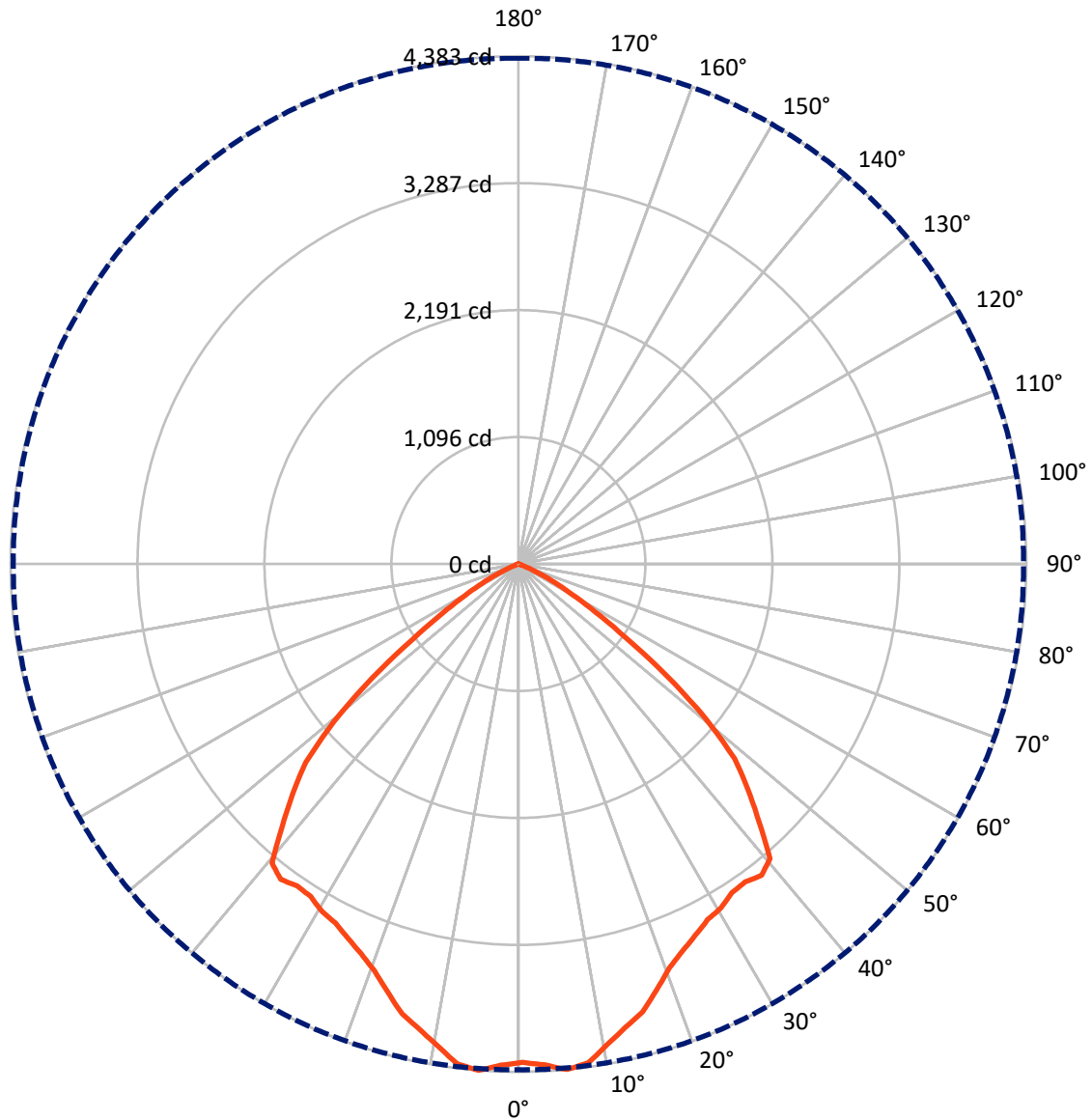
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 43 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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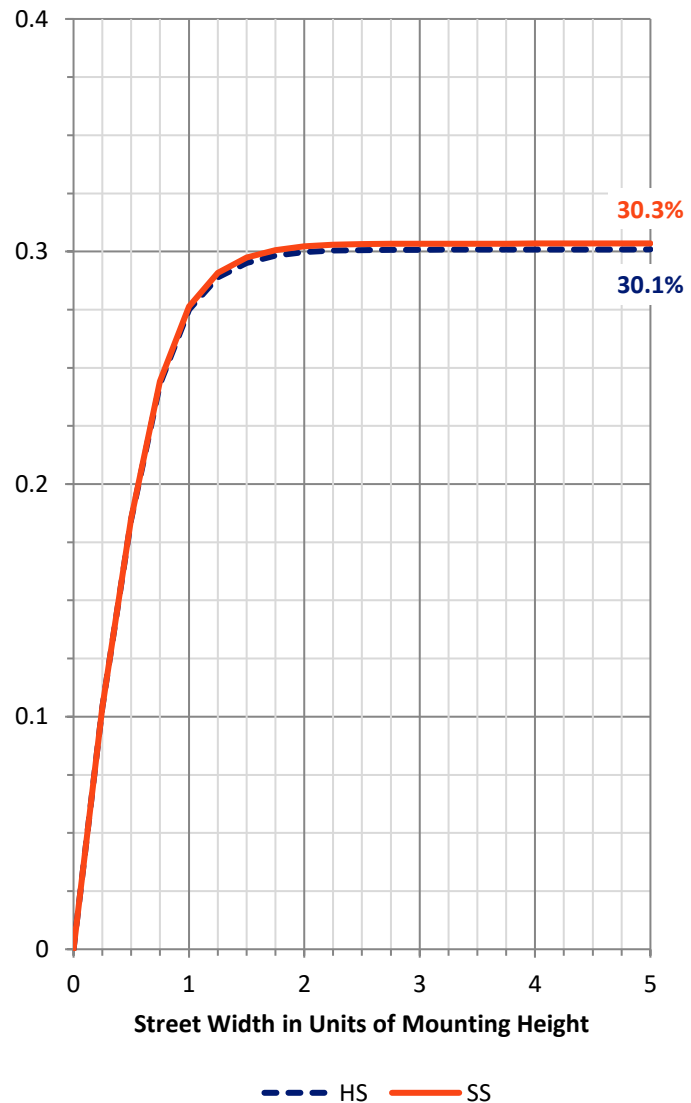
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4024.9	0.0	4024.9
	% Lamp	30.3	0.0	30.3
Street Side	Lumens	4024.9	0.0	4024.9
	% Lamp	30.3	0.0	30.3
Total	Lumens	8049.8	0.0	8049.8
	% Lamp	60.5	0.0	60.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	412.1	5.1	3.1
10°-20°	1161.9	14.4	8.7
20°-30°	1734.6	21.5	13.0
30°-40°	2027.5	25.2	15.2
40°-50°	1643.9	20.4	12.4
50°-60°	830.3	10.3	6.2
60°-70°	226.3	2.8	1.7
70°-80°	11.2	0.1	0.1
80°-90°	2.1	0.0	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°	8049.8	100.0	60.5
0°-180°	8049.8	100.0	60.5

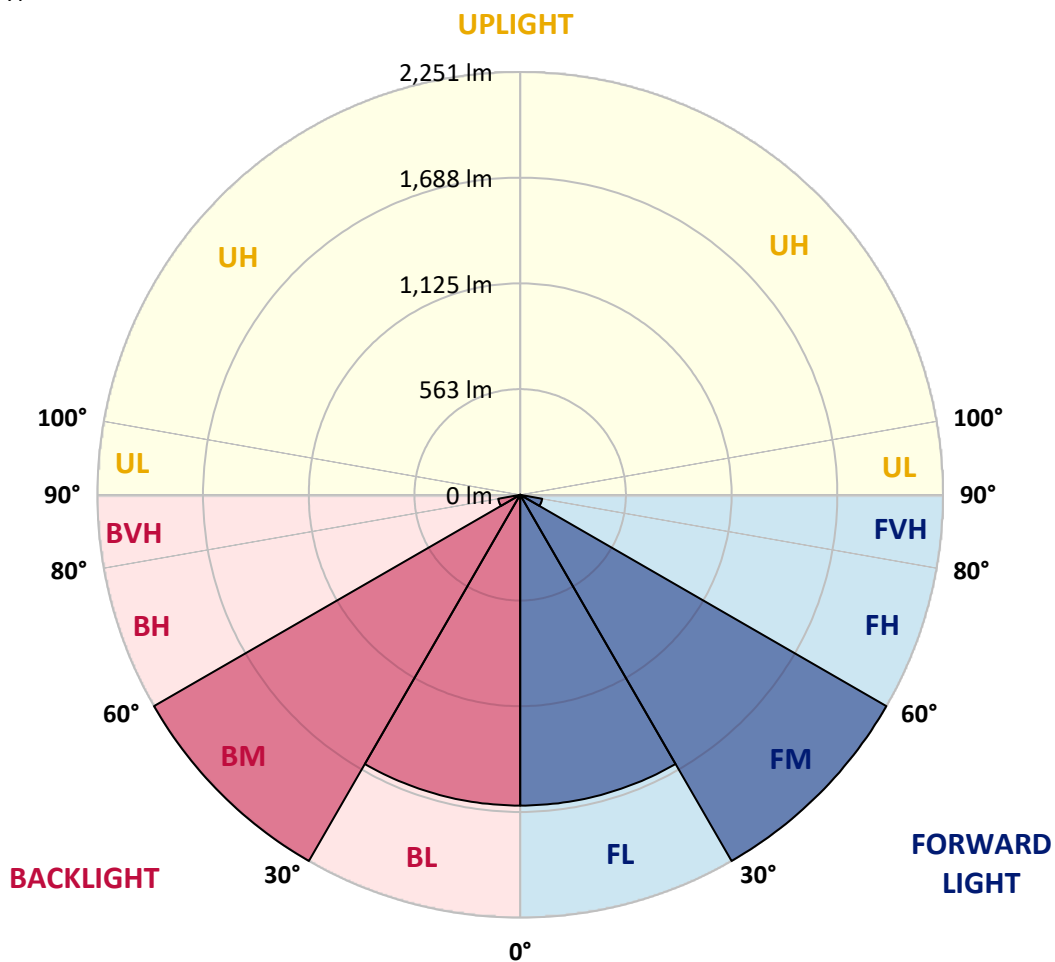


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.3	12.4			
FM	(30°-60°)	2250.9	16.9			
FH	(60°-80°)	118.8	0.9			G0/660
FVH	(80°-90°)	1.1	0.0			G0/10
BL	(0°-30°)	1654.3	12.4	B3/2500		
BM	(30°-60°)	2250.9	16.9	B2/2500		
BH	(60°-80°)	118.8	0.9	B1/500		G0/660
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		5250.2	39.5			

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°	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3
2.5°	4335.8	4329.6	4327.8	4328.7	4326.9	4328.7	4327.8	4329.6	4335.8
5°	4365.1	4380.1	4382.8	4373.9	4358.9	4373.9	4382.8	4380.1	4365.1
7.5°	4299.4	4329.6	4344.7	4326.0	4291.5	4326.0	4344.7	4329.6	4299.4
10°	4248.0	4258.7	4216.1	4231.2	4220.5	4231.2	4216.1	4258.7	4248.0
12.5°	4234.7	4203.7	4104.4	4190.4	4217.0	4190.4	4104.4	4203.7	4234.7
15°	4230.3	4154.0	4010.4	4149.6	4236.5	4149.6	4010.4	4154.0	4230.3
17.5°	4185.1	4076.9	3861.4	4087.5	4222.3	4087.5	3861.4	4076.9	4185.1
20°	4106.2	3913.7	3720.5	3935.0	4123.9	3935.0	3720.5	3913.7	4106.2
22.5°	4069.8	3748.8	3626.5	3764.8	4087.5	3764.8	3626.5	3748.8	4069.8
25°	4092.0	3658.4	3548.4	3678.8	4091.1	3678.8	3548.4	3658.4	4092.0
27.5°	4121.2	3574.2	3476.6	3576.8	4131.9	3576.8	3476.6	3574.2	4121.2
30°	4146.9	3471.3	3443.8	3493.5	4188.6	3493.5	3443.8	3471.3	4146.9
32.5°	3904.0	3294.0	3382.6	3349.8	3891.6	3349.8	3382.6	3294.0	3904.0
35°	3573.3	3012.9	3370.2	3069.6	3548.4	3069.6	3370.2	3012.9	3573.3
37.5°	3277.1	2723.0	3408.3	2723.8	3223.9	2723.8	3408.3	2723.0	3277.1
40°	2981.9	2447.2	3343.6	2433.0	2893.2	2433.0	3343.6	2447.2	2981.9
42.5°	2540.3	2171.4	3044.8	2152.8	2535.0	2152.8	3044.8	2171.4	2540.3
45°	2083.7	1841.6	2777.0	1843.4	2077.5	1843.4	2777.0	1841.6	2083.7
47.5°	1646.5	1556.1	2509.3	1543.7	1630.6	1543.7	2509.3	1556.1	1646.5
50°	1306.1	1266.2	2089.0	1284.8	1306.1	1284.8	2089.0	1266.2	1306.1
52.5°	1017.0	1034.7	1603.1	1025.0	993.1	1025.0	1603.1	1034.7	1017.0
55°	806.9	831.7	1124.3	806.9	789.1	806.9	1124.3	831.7	806.9
57.5°	631.3	649.9	779.4	642.8	646.4	642.8	779.4	649.9	631.3
60°	528.5	506.3	532.9	508.9	548.8	508.9	532.9	506.3	528.5
62.5°	415.8	379.5	353.8	370.6	417.6	370.6	353.8	379.5	415.8
65°	203.0	228.8	208.4	193.3	157.8	193.3	208.4	228.8	203.0
67.5°	70.0	77.1	94.0	57.6	33.7	57.6	94.0	77.1	70.0
70°	23.1	25.7	35.5	16.0	15.1	16.0	35.5	25.7	23.1
72.5°	15.1	14.2	13.3	10.6	9.8	10.6	13.3	14.2	15.1
75°	10.6	10.6	8.9	8.0	7.1	8.0	8.9	10.6	10.6
77.5°	8.0	7.1	6.2	6.2	5.3	6.2	6.2	7.1	8.0
80°	5.3	5.3	4.4	4.4	3.5	4.4	4.4	5.3	5.3
82.5°	3.5	3.5	2.7	2.7	2.7	2.7	2.7	3.5	3.5
85°	1.8	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.0	0.9	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)