

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: P395104

Luminaire Tested: **LAS45S-T5**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LAS45S-T5  
Description: AREA SITE SMALL HOUSING, TYPE V  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

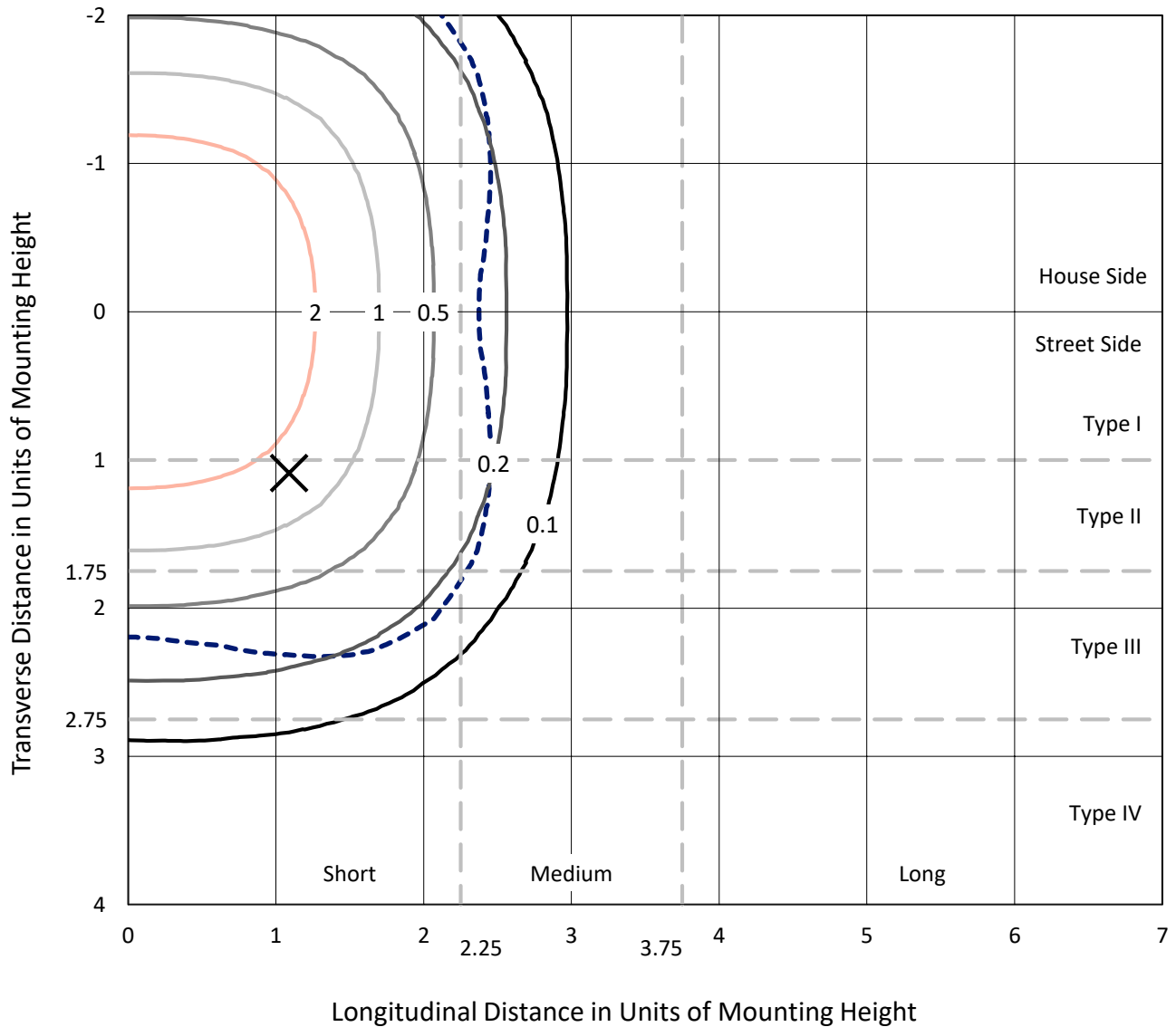
Lumens per Lamp: N/A  
Luminaire Lumens: 19956 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 152.7  
Input Voltage (V): NR  
Input Current (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

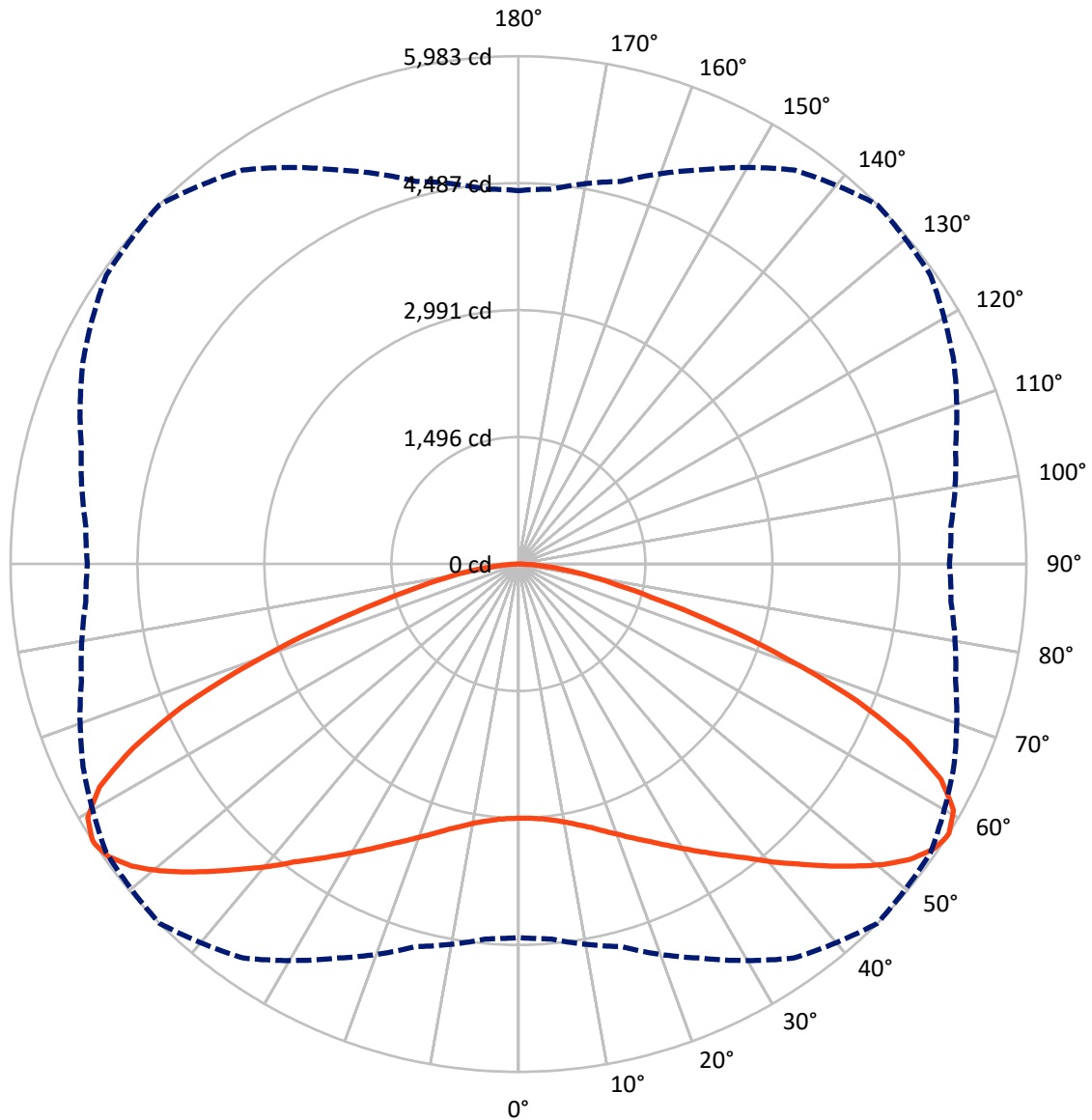
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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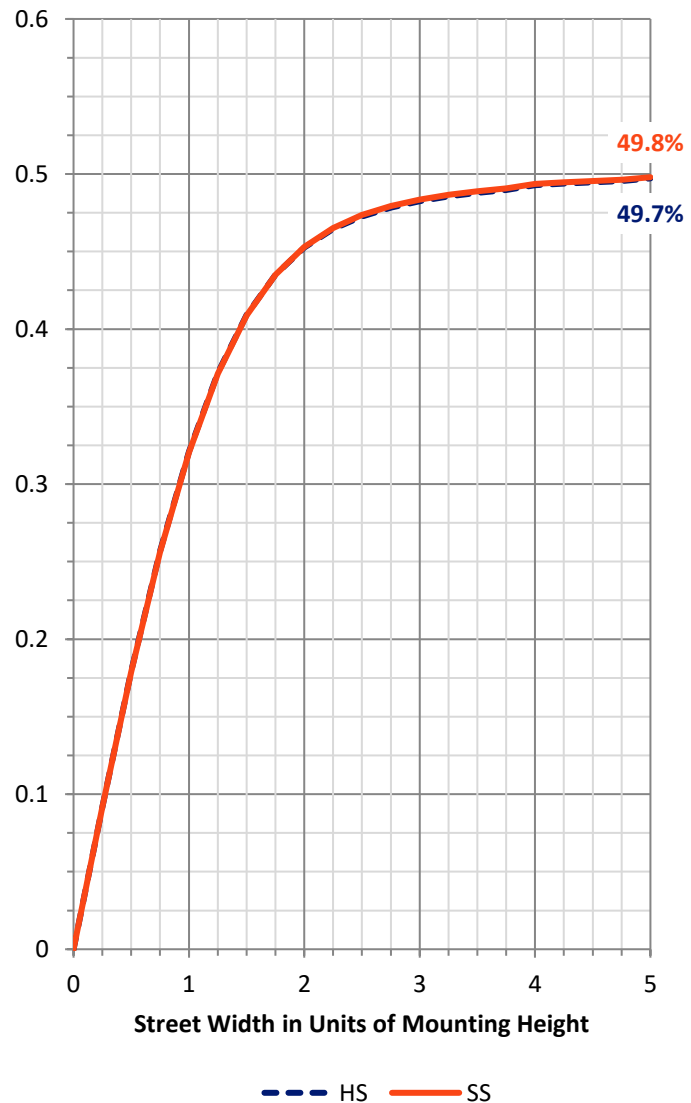
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9978.0	0.0	9978.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9978.0	0.0	9978.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19956.0	0.0	19956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	1.5
10°-20°	918.2	4.6
20°-30°	1674.4	8.4
30°-40°	2625.1	13.2
40°-50°	3806.2	19.1
50°-60°	4753.5	23.8
60°-70°	3967.4	19.9
70°-80°	1613.5	8.1
80°-90°	307.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19956.0	100.0
0°-180°	19956.0	100.0



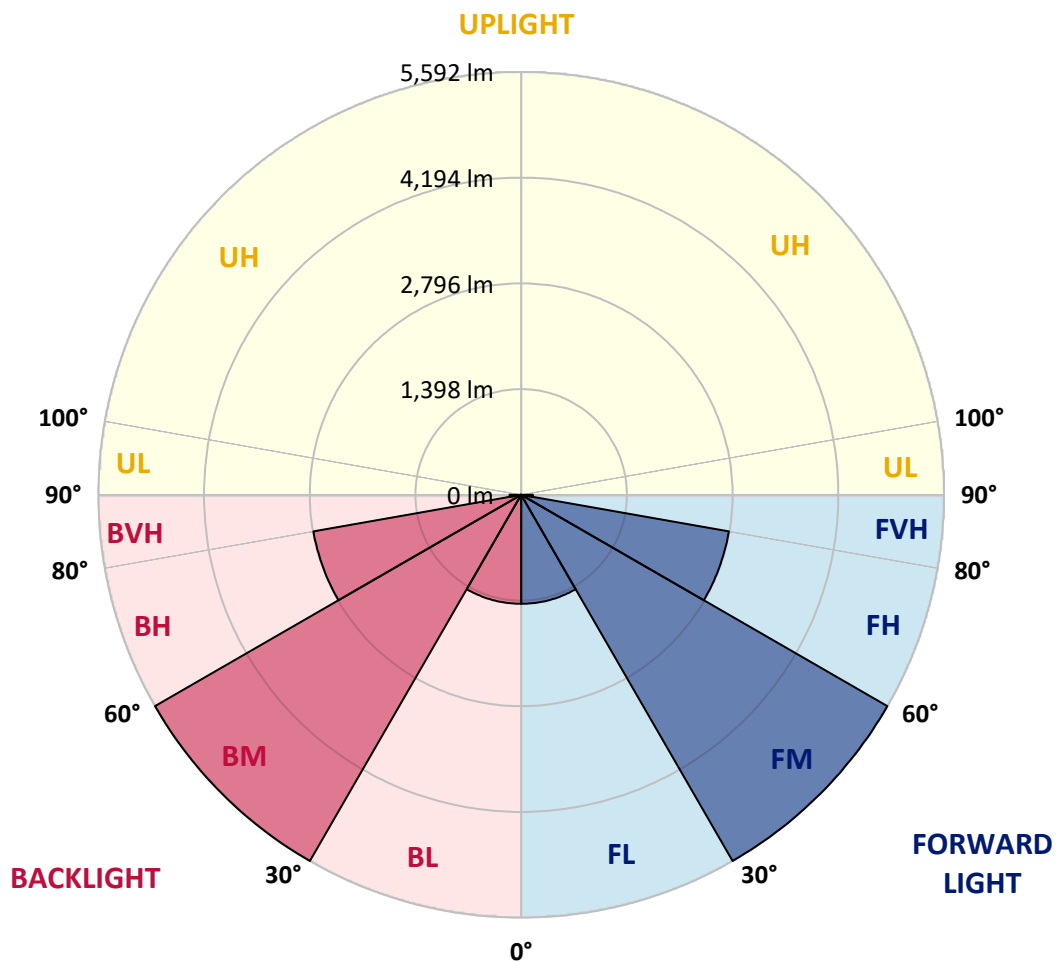
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1441.5	7.2			
FM	(30°-60°)	5592.4	28.0			
FH	(60°-80°)	2790.5	14.0			G2/5000
FVH	(80°-90°)	153.6	0.8			G2/225
BL	(0°-30°)	1441.5	7.2	B3/2500		
BM	(30°-60°)	5592.4	28.0	B4/8500		
BH	(60°-80°)	2790.5	14.0	B4/5000		G2/5000
BVH	(80°-90°)	153.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9	2993.9
2.5°	3001.4	3000.2	3001.4	2999.7	2999.7	2999.1	2998.5	2996.2	2997.4	2999.1	2997.9
5°	3021.0	3020.4	3021.0	3019.3	3018.7	3016.4	3016.4	3014.7	3014.1	3016.4	3015.3
7.5°	3051.6	3051.6	3052.8	3051.6	3051.0	3048.7	3046.4	3045.8	3045.3	3046.4	3044.7
10°	3094.3	3094.9	3098.4	3097.2	3096.7	3092.6	3091.5	3089.7	3088.6	3088.6	3089.1
12.5°	3149.2	3151.5	3150.9	3153.8	3155.0	3153.8	3149.2	3142.8	3143.4	3138.8	3138.8
15°	3215.6	3216.2	3219.0	3222.5	3225.4	3221.9	3216.2	3209.8	3206.3	3204.6	3204.0
17.5°	3290.0	3293.5	3295.2	3300.4	3307.4	3310.8	3298.7	3288.3	3280.8	3274.5	3275.0
20°	3370.9	3376.1	3383.0	3391.1	3400.3	3404.9	3395.1	3379.5	3365.7	3358.7	3356.4
22.5°	3463.2	3465.0	3475.4	3490.9	3505.4	3511.2	3501.9	3484.0	3469.0	3459.8	3459.2
25°	3566.0	3564.3	3580.4	3600.1	3622.6	3624.9	3617.4	3600.1	3583.9	3568.9	3567.7
27.5°	3670.5	3671.1	3691.3	3714.9	3742.7	3755.9	3747.8	3733.4	3709.2	3690.7	3689.0
30°	3783.1	3781.3	3807.9	3840.8	3876.6	3898.5	3890.4	3877.7	3851.2	3834.4	3832.7
32.5°	3892.8	3900.8	3927.4	3973.0	4016.9	4049.2	4050.9	4040.0	4012.3	3995.5	3988.6
35°	4018.0	4022.1	4058.4	4117.9	4176.2	4216.6	4221.8	4214.3	4194.1	4169.3	4177.9
37.5°	4142.7	4143.9	4191.2	4269.2	4346.5	4393.8	4419.3	4412.9	4391.0	4373.6	4371.3
40°	4274.9	4281.3	4340.2	4428.5	4535.3	4616.1	4642.7	4642.7	4612.1	4595.9	4577.4
42.5°	4411.2	4415.2	4485.1	4604.0	4734.5	4832.0	4869.0	4866.7	4828.0	4791.6	4785.8
45°	4545.1	4550.3	4631.1	4781.2	4951.5	5072.2	5123.0	5102.8	5037.0	4983.3	4977.5
47.5°	4646.7	4662.3	4760.4	4956.1	5172.6	5318.1	5372.4	5321.0	5211.3	5139.7	5123.0
50°	4707.3	4725.8	4856.8	5106.2	5383.3	5564.0	5601.0	5500.0	5348.7	5243.1	5226.9
52.5°	4693.5	4715.4	4884.6	5206.1	5560.0	5778.2	5781.1	5628.1	5425.5	5286.4	5266.7
55°	4578.6	4604.0	4811.8	5215.4	5670.8	5932.4	5901.2	5689.3	5418.0	5243.1	5213.6
57°	4399.0	4433.1	4665.2	5123.6	5664.5	5982.6	5927.2	5658.1	5330.2	5115.5	5077.4
57.5°	4351.1	4382.9	4612.1	5090.1	5654.1	5982.0	5922.0	5640.8	5293.9	5070.4	5038.7
60°	3994.4	4041.1	4303.8	4816.4	5467.6	5887.9	5805.9	5444.0	5008.1	4732.7	4678.5
62.5°	3574.1	3613.3	3874.3	4417.5	5084.9	5586.0	5515.5	5041.6	4535.9	4227.6	4187.8
65°	3100.1	3113.4	3373.2	3851.2	4526.6	5026.6	4975.2	4453.9	3910.6	3598.3	3552.1
67.5°	2537.8	2584.0	2809.7	3266.4	3865.6	4302.6	4244.9	3697.6	3228.9	2913.6	2895.7
70°	1992.3	2024.0	2219.2	2621.0	3103.0	3383.6	3269.3	2868.6	2489.9	2249.7	2225.5
72.5°	1422.5	1487.7	1682.3	1995.7	2354.2	2496.8	2364.1	2154.5	1843.9	1700.2	1677.1
75°	944.5	966.4	1208.3	1461.7	1697.3	1718.1	1657.4	1520.6	1374.6	1244.1	1235.4
77.5°	643.7	663.9	853.8	1074.9	1180.6	1198.5	1120.0	1081.3	1010.3	860.8	817.5
80°	416.2	440.5	589.4	785.1	848.1	834.2	775.3	751.6	715.9	555.9	513.2
82.5°	271.3	283.5	389.7	530.0	574.4	526.5	480.3	516.7	495.3	345.2	328.5
85°	138.6	144.3	201.5	281.1	310.6	271.3	252.3	304.2	280.0	197.4	180.7
87.5°	32.3	36.4	52.0	73.3	79.1	76.2	76.8	101.0	92.9	70.4	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)