

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: P395105

Luminaire Tested: **LAS45S-T5-Switch-1**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395105  
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-Switch-1  
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 1  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

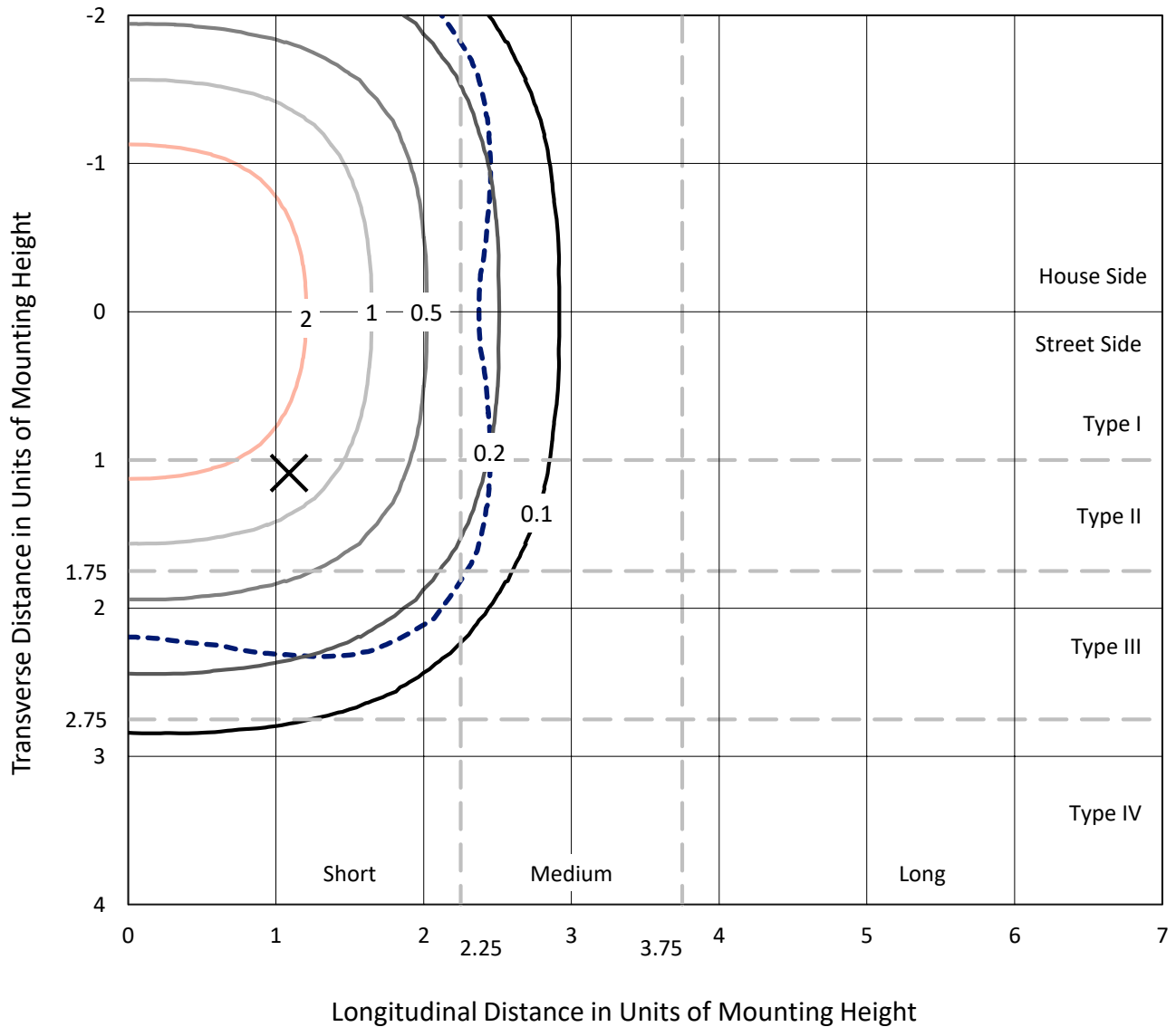
Lumens per Lamp: N/A  
Luminaire Lumens: 18311 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 135.4  
Input Voltage (V): NR  
Input Current (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

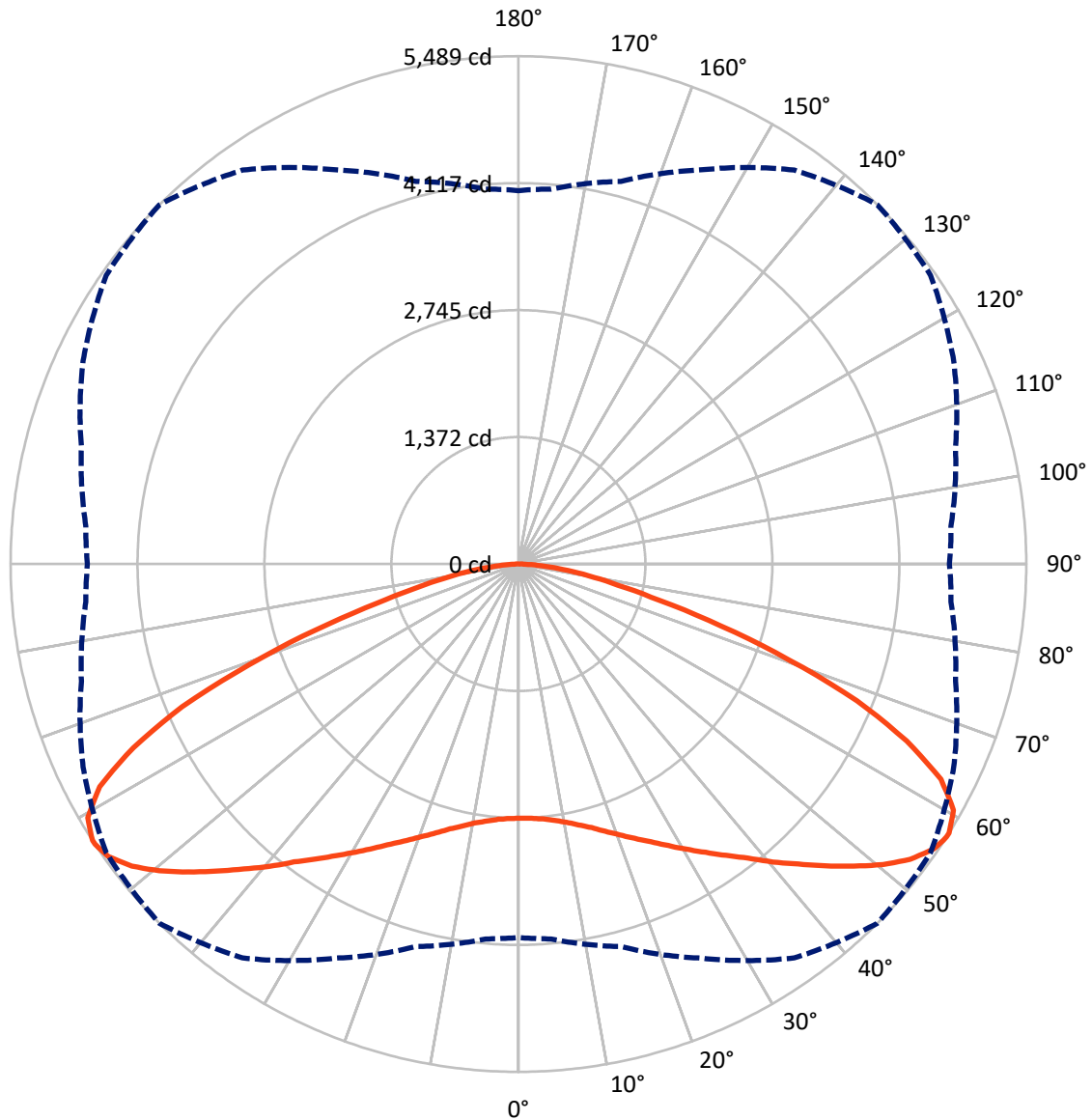
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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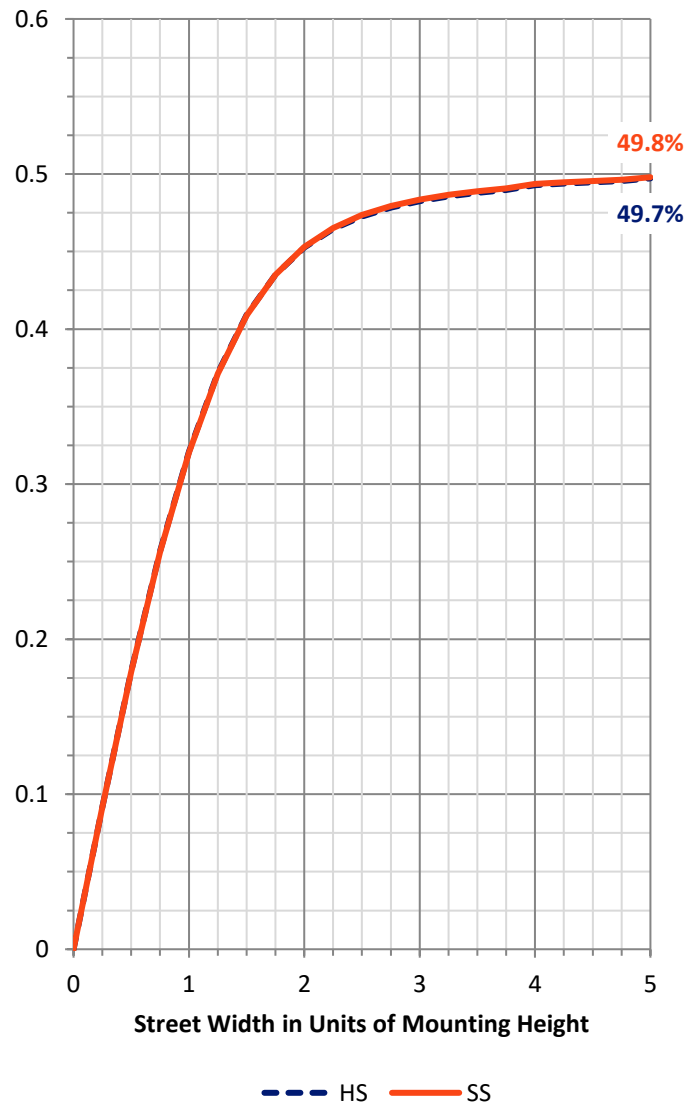
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9155.5	0.0	9155.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9155.5	0.0	9155.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18311.0	0.0	18311.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.5	1.5
10°-20°	842.5	4.6
20°-30°	1536.4	8.4
30°-40°	2408.7	13.2
40°-50°	3492.5	19.1
50°-60°	4361.7	23.8
60°-70°	3640.4	19.9
70°-80°	1480.5	8.1
80°-90°	281.8	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°	18311.0	100.0
0°-180°	18311.0	100.0



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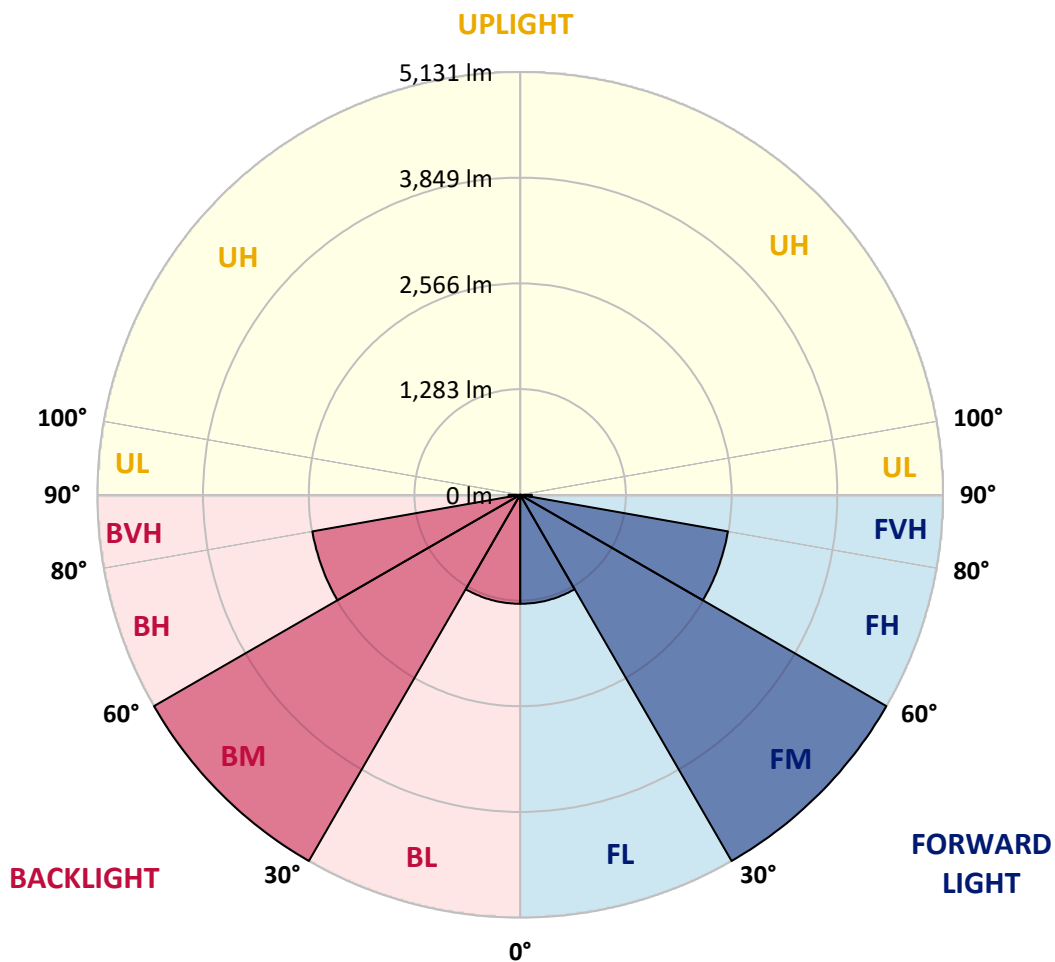
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1322.7	7.2			
FM	(30°-60°)	5131.4	28.0			
FH	(60°-80°)	2560.5	14.0			G2/5000
FVH	(80°-90°)	140.9	0.8			G2/225
BL	(0°-30°)	1322.7	7.2	B3/2500		
BM	(30°-60°)	5131.4	28.0	B4/8500		
BH	(60°-80°)	2560.5	14.0	B4/5000		G2/5000
BVH	(80°-90°)	140.9	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°	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1	2747.1
2.5°	2754.0	2752.9	2754.0	2752.4	2752.4	2751.9	2751.3	2749.2	2750.3	2751.9	2750.8
5°	2772.0	2771.5	2772.0	2770.4	2769.9	2767.8	2767.8	2766.2	2765.6	2767.8	2766.7
7.5°	2800.1	2800.1	2801.1	2800.1	2799.5	2797.4	2795.3	2794.8	2794.2	2795.3	2793.7
10°	2839.3	2839.8	2843.0	2841.9	2841.4	2837.7	2836.6	2835.0	2834.0	2834.0	2834.5
12.5°	2889.6	2891.7	2891.2	2893.8	2894.9	2893.8	2889.6	2883.8	2884.3	2880.1	2880.1
15°	2950.5	2951.0	2953.7	2956.9	2959.5	2956.3	2951.0	2945.2	2942.0	2940.4	2939.9
17.5°	3018.8	3022.0	3023.6	3028.4	3034.7	3037.9	3026.8	3017.3	3010.4	3004.5	3005.1
20°	3093.0	3097.8	3104.1	3111.5	3120.0	3124.3	3115.3	3100.9	3088.2	3081.9	3079.8
22.5°	3177.8	3179.3	3188.9	3203.2	3216.4	3221.7	3213.2	3196.8	3183.1	3174.6	3174.1
25°	3272.0	3270.5	3285.3	3303.3	3324.0	3326.1	3319.2	3303.3	3288.5	3274.7	3273.6
27.5°	3367.9	3368.5	3387.0	3408.7	3434.1	3446.3	3438.9	3425.7	3403.4	3386.5	3384.9
30°	3471.2	3469.6	3494.0	3524.2	3557.0	3577.2	3569.7	3558.1	3533.7	3518.4	3516.8
32.5°	3571.9	3579.3	3603.6	3645.5	3685.8	3715.4	3717.0	3706.9	3681.5	3666.2	3659.8
35°	3686.8	3690.5	3723.9	3778.5	3832.0	3869.0	3873.8	3866.9	3848.4	3825.6	3833.5
37.5°	3801.2	3802.3	3845.7	3917.2	3988.2	4031.7	4055.0	4049.1	4029.0	4013.1	4011.0
40°	3922.5	3928.4	3982.4	4063.4	4161.4	4235.6	4260.0	4260.0	4231.9	4217.1	4200.1
42.5°	4047.5	4051.3	4115.4	4224.5	4344.2	4433.7	4467.6	4465.5	4430.0	4396.6	4391.3
45°	4170.4	4175.2	4249.4	4387.1	4543.4	4654.1	4700.7	4682.1	4621.8	4572.5	4567.2
47.5°	4263.7	4278.0	4368.0	4547.6	4746.2	4879.7	4929.5	4882.4	4781.7	4716.0	4700.7
50°	4319.3	4336.2	4456.5	4685.3	4939.6	5105.4	5139.3	5046.6	4907.8	4810.9	4796.0
52.5°	4306.6	4326.7	4481.9	4777.0	5101.7	5301.9	5304.6	5164.2	4978.3	4850.6	4832.6
55°	4201.2	4224.5	4415.2	4785.4	5203.4	5443.3	5414.7	5220.3	4971.4	4810.9	4783.9
57°	4036.4	4067.7	4280.6	4701.2	5197.6	5489.4	5438.6	5191.7	4890.9	4693.8	4658.8
57.5°	3992.5	4021.6	4231.9	4670.5	5188.0	5488.9	5433.8	5175.8	4857.5	4652.5	4623.3
60°	3665.1	3708.0	3949.0	4419.4	5016.9	5402.6	5327.3	4995.2	4595.3	4342.6	4292.8
62.5°	3279.5	3315.5	3554.9	4053.4	4665.7	5125.5	5060.9	4626.0	4162.0	3879.1	3842.6
65°	2844.6	2856.8	3095.1	3533.7	4153.5	4612.2	4565.1	4086.7	3588.3	3301.7	3259.3
67.5°	2328.6	2371.0	2578.1	2997.1	3547.0	3948.0	3895.0	3392.8	2962.7	2673.5	2657.0
70°	1828.0	1857.2	2036.2	2404.9	2847.2	3104.7	2999.8	2632.2	2284.7	2064.3	2042.1
72.5°	1305.2	1365.1	1543.6	1831.2	2160.2	2291.0	2169.2	1976.9	1691.9	1560.0	1538.8
75°	866.6	886.7	1108.7	1341.2	1557.4	1576.4	1520.8	1395.3	1261.3	1141.5	1133.6
77.5°	590.6	609.2	783.4	986.3	1083.3	1099.7	1027.6	992.2	927.0	789.8	750.1
80°	381.9	404.2	540.8	720.4	778.2	765.4	711.4	689.7	656.8	510.1	470.9
82.5°	249.0	260.1	357.6	486.3	527.1	483.1	440.7	474.1	454.5	316.8	301.4
85°	127.1	132.4	184.9	258.0	285.0	249.0	231.5	279.2	256.9	181.2	165.8
87.5°	29.7	33.4	47.7	67.3	72.6	69.9	70.5	92.7	85.3	64.6	59.3
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)