

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: P395106

Luminaire Tested: **LAS45S-T5-Switch-2**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395106
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-2
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 2
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16698 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

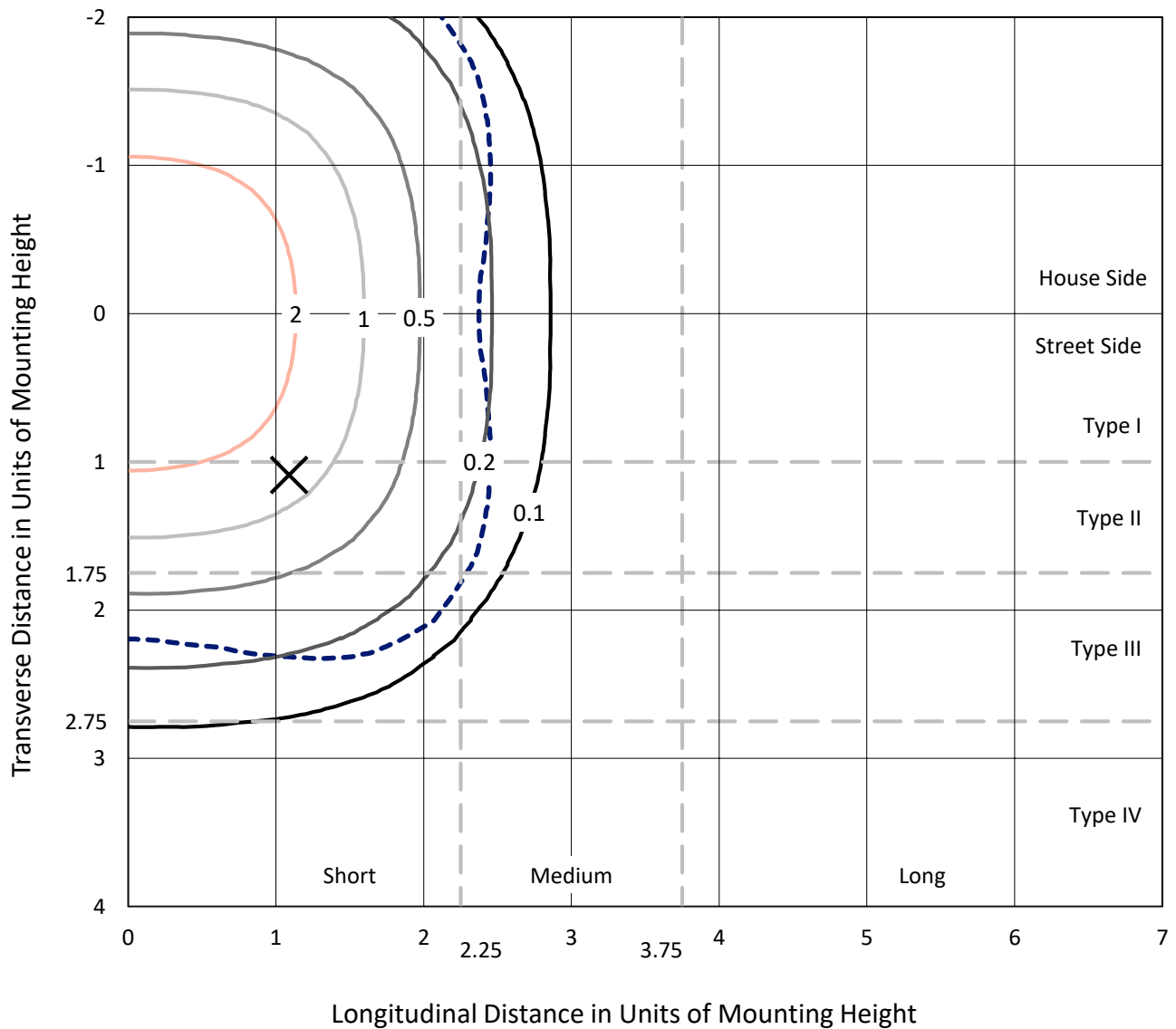
Input Watts (W): 119.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

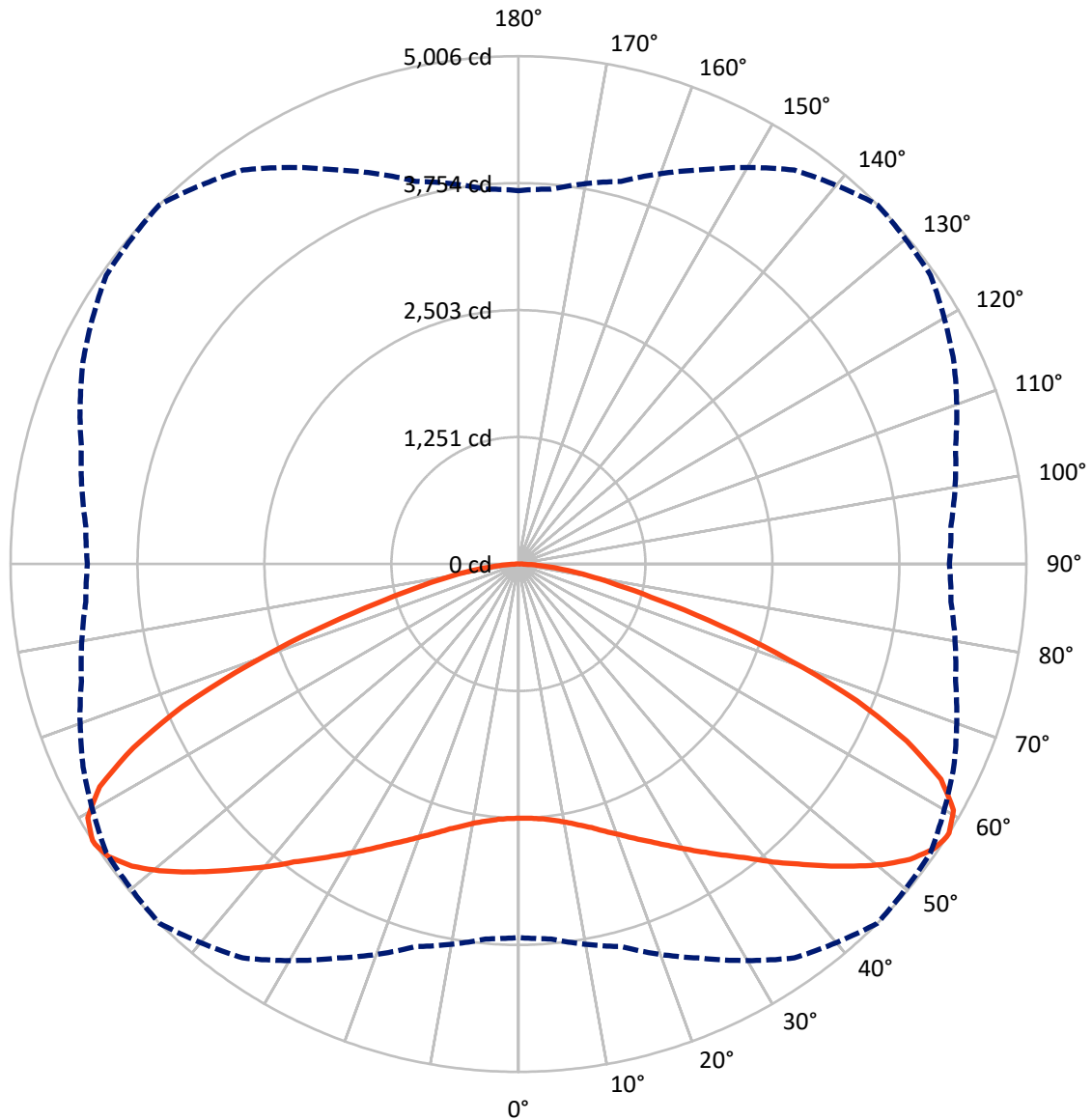
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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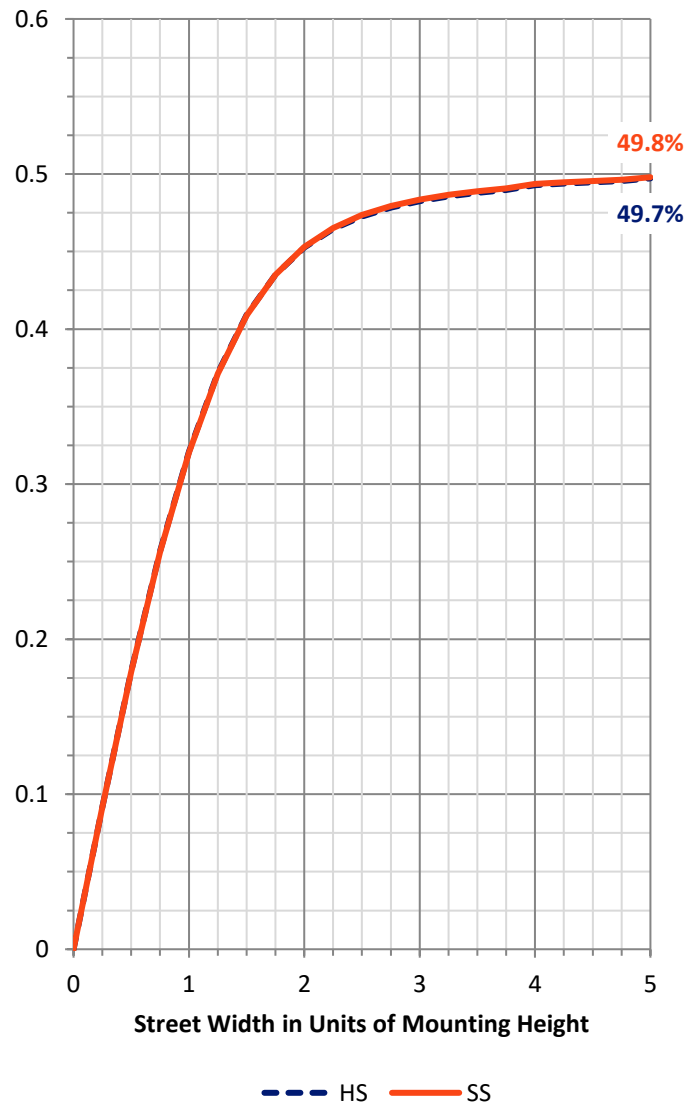
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8349.0	0.0	8349.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8349.0	0.0	8349.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16698.0	0.0	16698.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	1.5
10°-20°	768.3	4.6
20°-30°	1401.0	8.4
30°-40°	2196.5	13.2
40°-50°	3184.8	19.1
50°-60°	3977.5	23.8
60°-70°	3319.7	19.9
70°-80°	1350.1	8.1
80°-90°	257.0	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°	16698.0	100.0
0°-180°	16698.0	100.0



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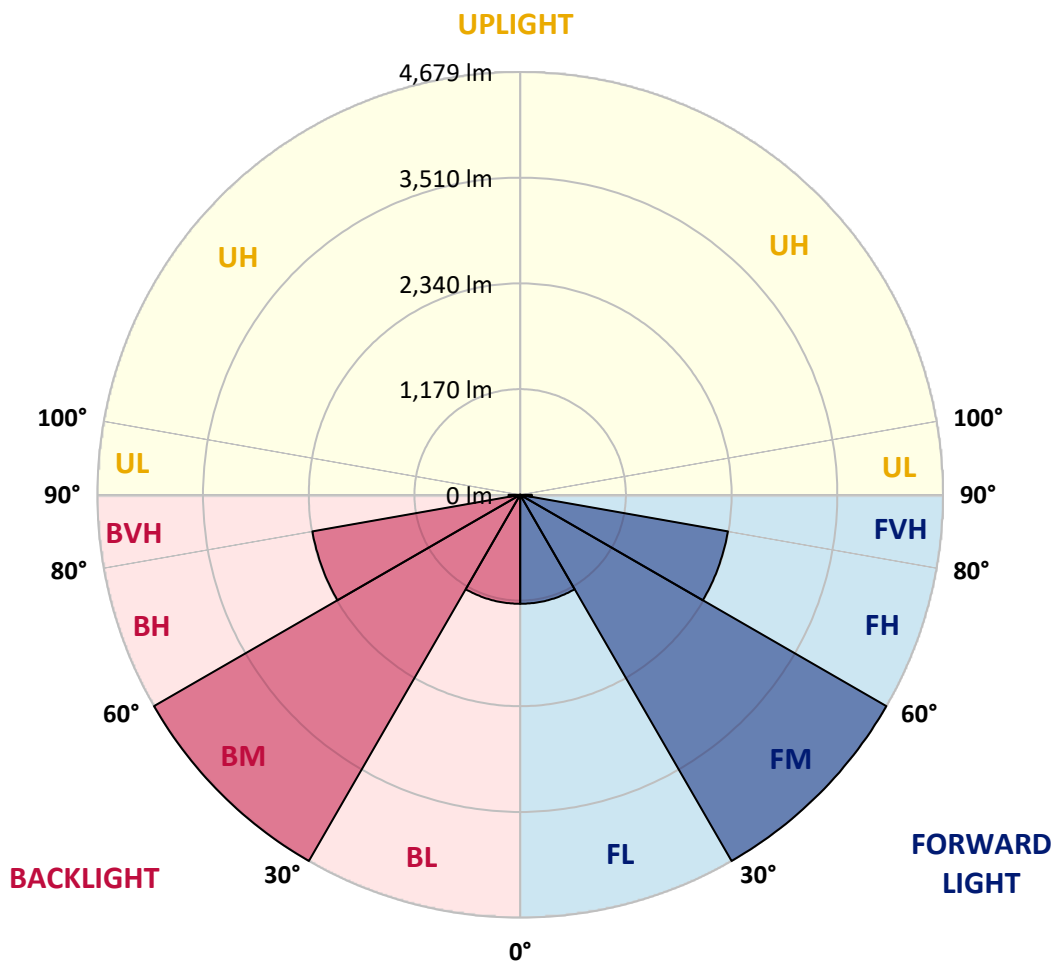
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.2	7.2			
FM	(30°-60°)	4679.4	28.0			
FH	(60°-80°)	2334.9	14.0			G2/5000
FVH	(80°-90°)	128.5	0.8			G2/225
BL	(0°-30°)	1206.2	7.2	B3/2500		
BM	(30°-60°)	4679.4	28.0	B3/5000		
BH	(60°-80°)	2334.9	14.0	B3/2500		G2/5000
BVH	(80°-90°)	128.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1	2505.1
2.5°	2511.4	2510.4	2511.4	2509.9	2509.9	2509.5	2509.0	2507.0	2508.0	2509.5	2508.5
5°	2527.8	2527.3	2527.8	2526.4	2525.9	2523.9	2523.9	2522.5	2522.0	2523.9	2523.0
7.5°	2553.4	2553.4	2554.4	2553.4	2552.9	2551.0	2549.1	2548.6	2548.1	2549.1	2547.6
10°	2589.2	2589.6	2592.5	2591.6	2591.1	2587.7	2586.7	2585.3	2584.3	2584.3	2584.8
12.5°	2635.1	2637.0	2636.5	2638.9	2639.9	2638.9	2635.1	2629.7	2630.2	2626.4	2626.4
15°	2690.6	2691.1	2693.5	2696.4	2698.8	2695.9	2691.1	2685.8	2682.9	2681.4	2680.9
17.5°	2752.9	2755.8	2757.3	2761.6	2767.4	2770.3	2760.2	2751.5	2745.2	2739.9	2740.4
20°	2820.5	2824.9	2830.7	2837.5	2845.2	2849.0	2840.8	2827.8	2816.2	2810.4	2808.5
22.5°	2897.8	2899.3	2908.0	2921.0	2933.1	2937.9	2930.2	2915.2	2902.7	2894.9	2894.5
25°	2983.8	2982.4	2995.9	3012.3	3031.2	3033.1	3026.8	3012.3	2998.8	2986.2	2985.3
27.5°	3071.2	3071.7	3088.6	3108.4	3131.6	3142.7	3136.0	3123.9	3103.6	3088.2	3086.7
30°	3165.4	3164.0	3186.2	3213.7	3243.7	3262.1	3255.3	3244.7	3222.4	3208.4	3207.0
32.5°	3257.2	3264.0	3286.2	3324.4	3361.1	3388.1	3389.6	3380.4	3357.2	3343.2	3337.4
35°	3362.0	3365.4	3395.9	3445.6	3494.4	3528.2	3532.6	3526.3	3509.4	3488.6	3495.9
37.5°	3466.4	3467.4	3507.0	3572.2	3636.9	3676.5	3697.8	3692.5	3674.1	3659.6	3657.7
40°	3577.0	3582.3	3631.6	3705.5	3794.9	3862.5	3884.7	3884.7	3859.1	3845.6	3830.1
42.5°	3691.0	3694.4	3752.8	3852.3	3961.5	4043.2	4074.1	4072.1	4039.8	4009.3	4004.5
45°	3803.1	3807.4	3875.0	4000.6	4143.1	4244.1	4286.6	4269.7	4214.6	4169.7	4164.9
47.5°	3888.1	3901.1	3983.3	4147.0	4328.2	4449.9	4495.3	4452.3	4360.5	4300.6	4286.6
50°	3938.8	3954.3	4063.9	4272.6	4504.5	4655.7	4686.6	4602.0	4475.5	4387.1	4373.6
52.5°	3927.2	3945.6	4087.1	4356.2	4652.3	4834.9	4837.3	4709.3	4539.7	4423.3	4406.9
55°	3831.1	3852.3	4026.2	4363.9	4745.0	4963.8	4937.8	4760.5	4533.4	4387.1	4362.4
57°	3680.9	3709.4	3903.5	4287.1	4739.7	5005.9	4959.5	4734.4	4460.0	4280.3	4248.4
57.5°	3640.8	3667.3	3859.1	4259.1	4731.0	5005.4	4955.2	4719.9	4429.6	4242.7	4216.1
60°	3342.2	3381.4	3601.2	4030.1	4575.0	4926.7	4858.1	4555.2	4190.5	3960.1	3914.7
62.5°	2990.6	3023.4	3241.8	3696.3	4254.7	4674.0	4615.1	4218.5	3795.3	3537.4	3504.1
65°	2594.0	2605.1	2822.5	3222.4	3787.6	4205.9	4162.9	3726.8	3272.2	3010.9	2972.2
67.5°	2123.5	2162.1	2351.0	2733.1	3234.5	3600.2	3551.9	3094.0	2701.7	2438.0	2423.0
70°	1667.0	1693.6	1856.9	2193.1	2596.4	2831.2	2735.5	2400.3	2083.4	1882.5	1862.2
72.5°	1190.2	1244.8	1407.6	1669.9	1969.9	2089.2	1978.1	1802.8	1542.9	1422.6	1403.3
75°	790.3	808.6	1011.0	1223.1	1420.2	1437.6	1386.8	1272.4	1150.1	1041.0	1033.7
77.5°	538.6	555.5	714.4	899.4	987.8	1002.8	937.1	904.8	845.3	720.2	684.0
80°	348.3	368.6	493.2	657.0	709.6	698.0	648.7	628.9	599.0	465.2	429.4
82.5°	227.0	237.2	326.1	443.4	480.6	440.5	401.9	432.3	414.5	288.9	274.9
85°	115.9	120.8	168.6	235.2	259.9	227.0	211.1	254.6	234.3	165.2	151.2
87.5°	27.1	30.4	43.5	61.3	66.2	63.8	64.2	84.5	77.8	58.9	54.1
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)