

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: P395107

Luminaire Tested: **LAS45S-T5-Switch-3**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395107  
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-3  
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 3  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14418 lumens  
Efficiency: N/A  
Efficacy: 145.3 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

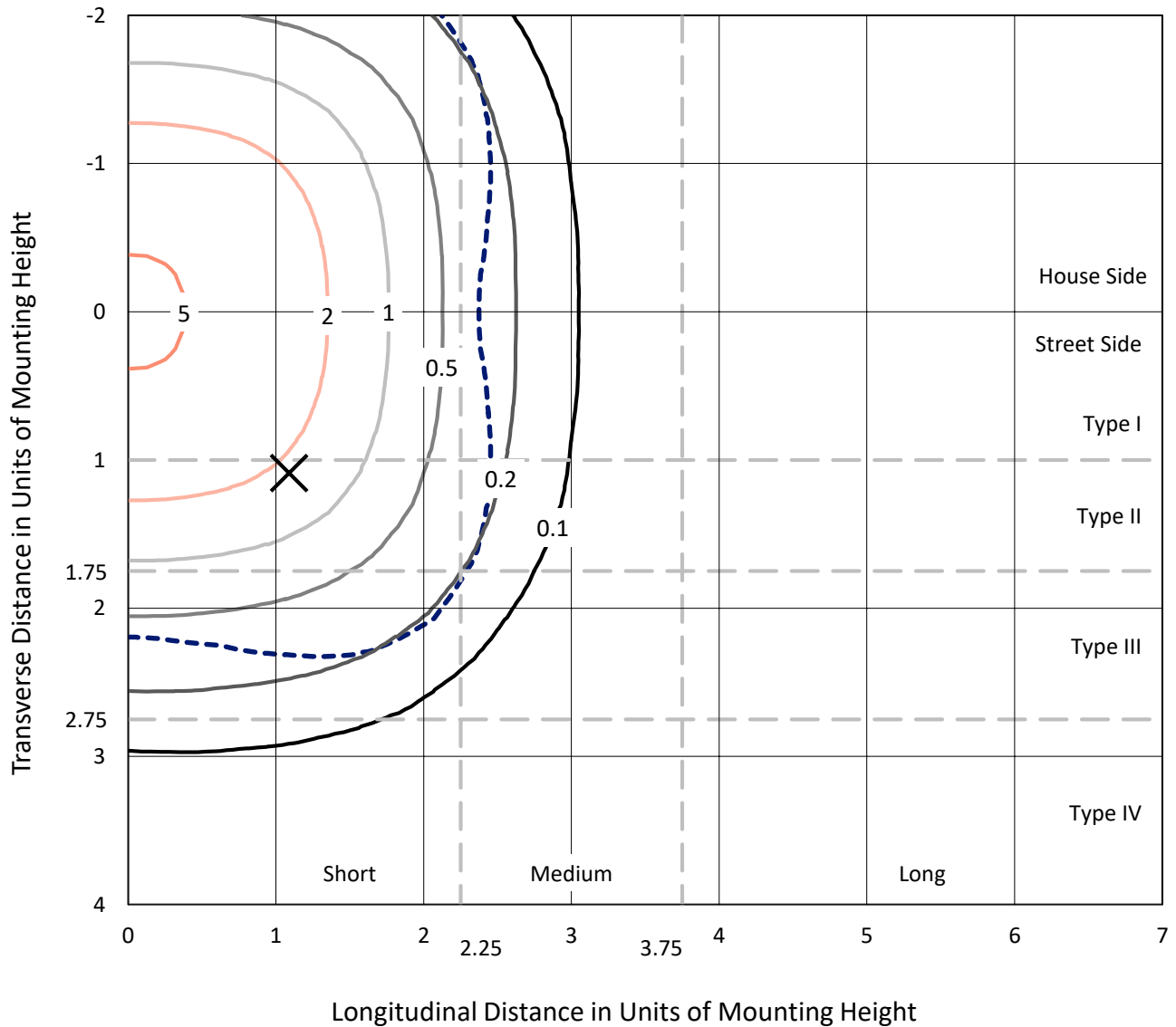
Input Watts (W): 99.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

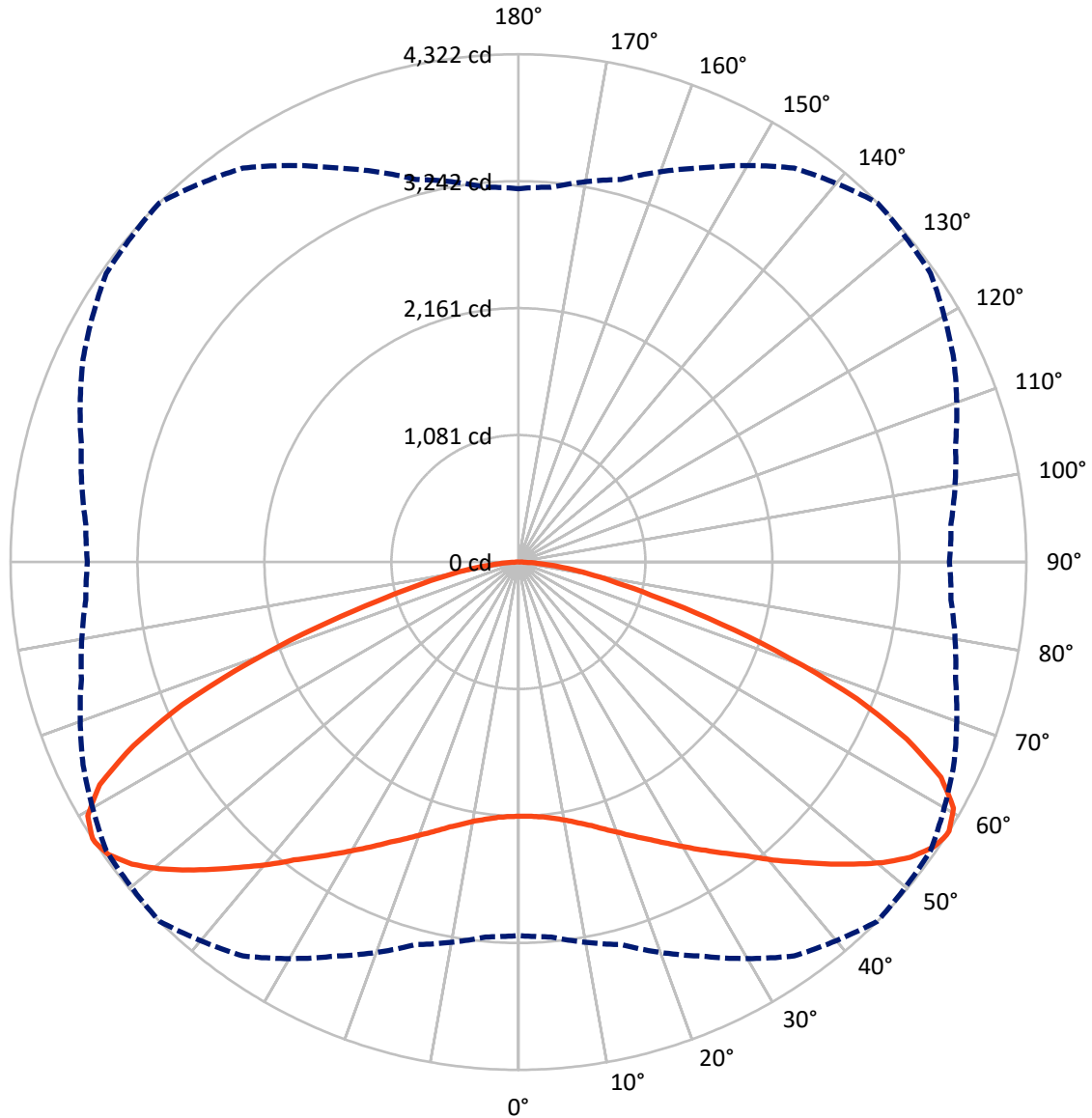
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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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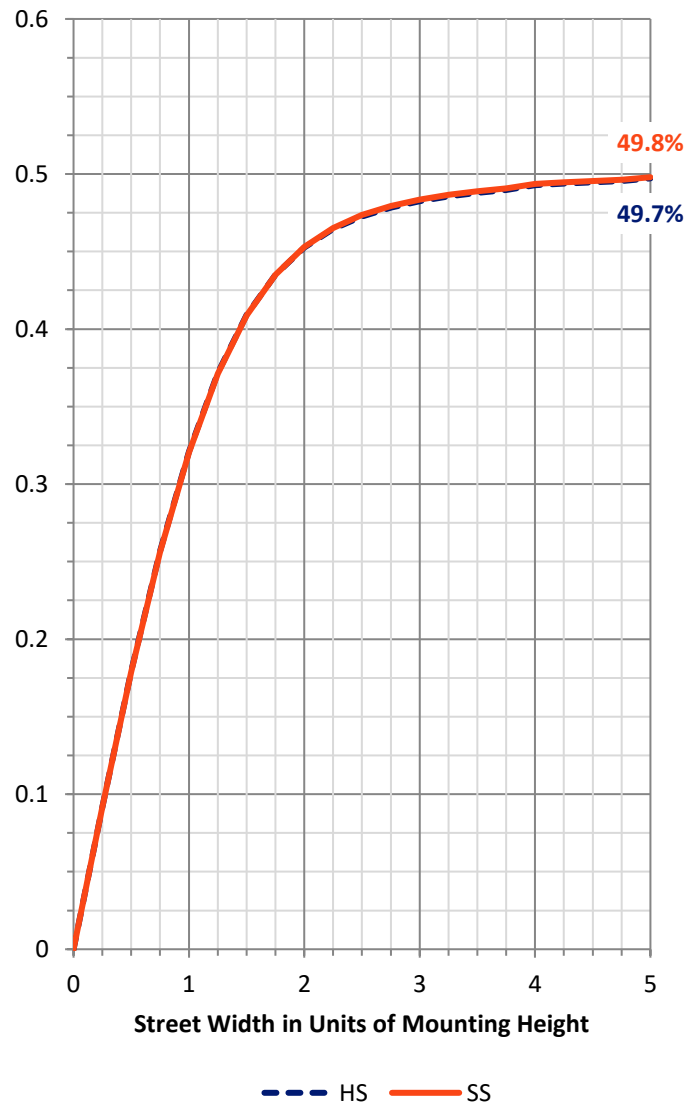
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7209.0	0.0	7209.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7209.0	0.0	7209.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14418.0	0.0	14418.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.8	1.5
10°-20°	663.4	4.6
20°-30°	1209.7	8.4
30°-40°	1896.6	13.2
40°-50°	2750.0	19.1
50°-60°	3434.4	23.8
60°-70°	2866.4	19.9
70°-80°	1165.8	8.1
80°-90°	221.9	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°	14418.0	100.0
0°-180°	14418.0	100.0



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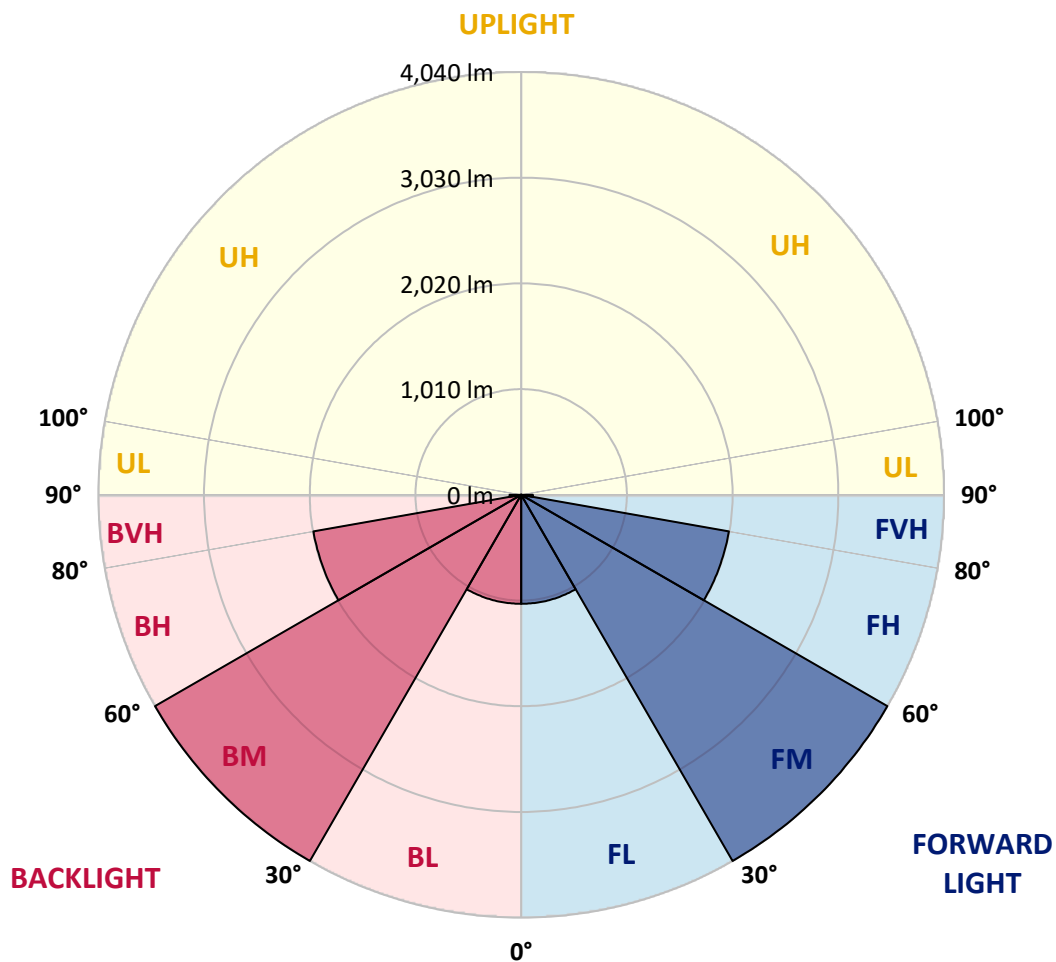
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.5	7.2			
FM	(30°-60°)	4040.5	28.0			
FH	(60°-80°)	2016.1	14.0			G2/5000
FVH	(80°-90°)	111.0	0.8			G2/225
BL	(0°-30°)	1041.5	7.2	B3/2500		
BM	(30°-60°)	4040.5	28.0	B3/5000		
BH	(60°-80°)	2016.1	14.0	B3/2500		G2/5000
BVH	(80°-90°)	111.0	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°	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1	2163.1
2.5°	2168.5	2167.6	2168.5	2167.2	2167.2	2166.8	2166.4	2164.7	2165.6	2166.8	2166.0
5°	2182.7	2182.2	2182.7	2181.4	2181.0	2179.3	2179.3	2178.1	2177.7	2179.3	2178.5
7.5°	2204.8	2204.8	2205.6	2204.8	2204.3	2202.7	2201.0	2200.6	2200.2	2201.0	2199.8
10°	2235.6	2236.0	2238.5	2237.7	2237.3	2234.4	2233.5	2232.3	2231.5	2231.5	2231.9
12.5°	2275.3	2276.9	2276.5	2278.6	2279.4	2278.6	2275.3	2270.7	2271.1	2267.7	2267.7
15°	2323.2	2323.6	2325.7	2328.2	2330.3	2327.8	2323.6	2319.0	2316.5	2315.3	2314.9
17.5°	2377.0	2379.5	2380.8	2384.5	2389.5	2392.0	2383.3	2375.8	2370.4	2365.8	2366.2
20°	2435.4	2439.2	2444.2	2450.0	2456.7	2460.0	2452.9	2441.7	2431.7	2426.7	2425.0
22.5°	2502.2	2503.4	2510.9	2522.2	2532.6	2536.8	2530.1	2517.2	2506.3	2499.7	2499.2
25°	2576.4	2575.1	2586.8	2601.0	2617.3	2618.9	2613.5	2601.0	2589.3	2578.5	2577.6
27.5°	2651.9	2652.3	2666.9	2684.0	2704.0	2713.6	2707.8	2697.4	2679.8	2666.5	2665.2
30°	2733.2	2732.0	2751.2	2774.9	2800.8	2816.6	2810.8	2801.6	2782.4	2770.3	2769.1
32.5°	2812.5	2818.3	2837.5	2870.4	2902.1	2925.5	2926.8	2918.8	2898.8	2886.7	2881.7
35°	2903.0	2905.9	2932.2	2975.1	3017.3	3046.5	3050.2	3044.8	3030.2	3012.3	3018.5
37.5°	2993.1	2993.9	3028.1	3084.4	3140.3	3174.5	3192.9	3188.3	3172.4	3159.9	3158.2
40°	3088.6	3093.2	3135.7	3199.5	3276.7	3335.1	3354.3	3354.3	3332.2	3320.5	3307.1
42.5°	3187.0	3189.9	3240.4	3326.3	3420.6	3491.1	3517.8	3516.1	3488.2	3461.9	3457.7
45°	3283.8	3287.5	3345.9	3454.4	3577.4	3664.6	3701.3	3686.7	3639.2	3600.4	3596.2
47.5°	3357.2	3368.5	3439.4	3580.8	3737.2	3842.3	3881.5	3844.4	3765.1	3713.4	3701.3
50°	3401.0	3414.3	3509.0	3689.2	3889.4	4020.0	4046.7	3973.7	3864.4	3788.1	3776.4
52.5°	3391.0	3406.8	3529.0	3761.4	4017.0	4174.7	4176.8	4066.3	3919.9	3819.3	3805.2
55°	3308.0	3326.3	3476.5	3768.0	4097.1	4286.1	4263.5	4110.5	3914.4	3788.1	3766.8
57°	3178.3	3202.9	3370.5	3701.7	4092.5	4322.4	4282.3	4087.9	3851.0	3695.9	3668.4
57.5°	3143.6	3166.6	3332.2	3677.5	4085.0	4321.9	4278.6	4075.4	3824.8	3663.3	3640.4
60°	2885.9	2919.7	3109.4	3479.8	3950.3	4254.0	4194.7	3933.2	3618.3	3419.3	3380.1
62.5°	2582.2	2610.6	2799.1	3191.6	3673.8	4035.8	3984.9	3642.5	3277.1	3054.4	3025.6
65°	2239.8	2249.4	2437.1	2782.4	3270.4	3631.6	3594.5	3217.9	2825.4	2599.8	2566.4
67.5°	1833.5	1866.9	2030.0	2359.9	2792.9	3108.6	3066.9	2671.5	2332.8	2105.1	2092.1
70°	1439.4	1462.3	1603.3	1893.6	2241.9	2444.6	2362.0	2072.5	1798.9	1625.4	1607.9
72.5°	1027.7	1074.9	1215.4	1441.9	1700.9	1803.9	1708.0	1556.6	1332.2	1228.3	1211.7
75°	682.4	698.2	873.0	1056.1	1226.3	1241.3	1197.5	1098.6	993.1	898.8	892.6
77.5°	465.1	479.7	616.9	776.6	853.0	865.9	809.2	781.2	729.9	621.9	590.6
80°	300.7	318.2	425.9	567.2	612.7	602.7	560.2	543.1	517.2	401.7	370.8
82.5°	196.0	204.8	281.5	382.9	415.0	380.4	347.0	373.3	357.9	249.4	237.3
85°	100.1	104.3	145.6	203.1	224.4	196.0	182.3	219.8	202.3	142.6	130.6
87.5°	23.4	26.3	37.5	53.0	57.1	55.1	55.5	73.0	67.2	50.9	46.7
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)