

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: P395108

Luminaire Tested: **LAS45S-T5-Switch-4**

Issue Date: 5/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395108  
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-4  
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 4  
Light Source: (168) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

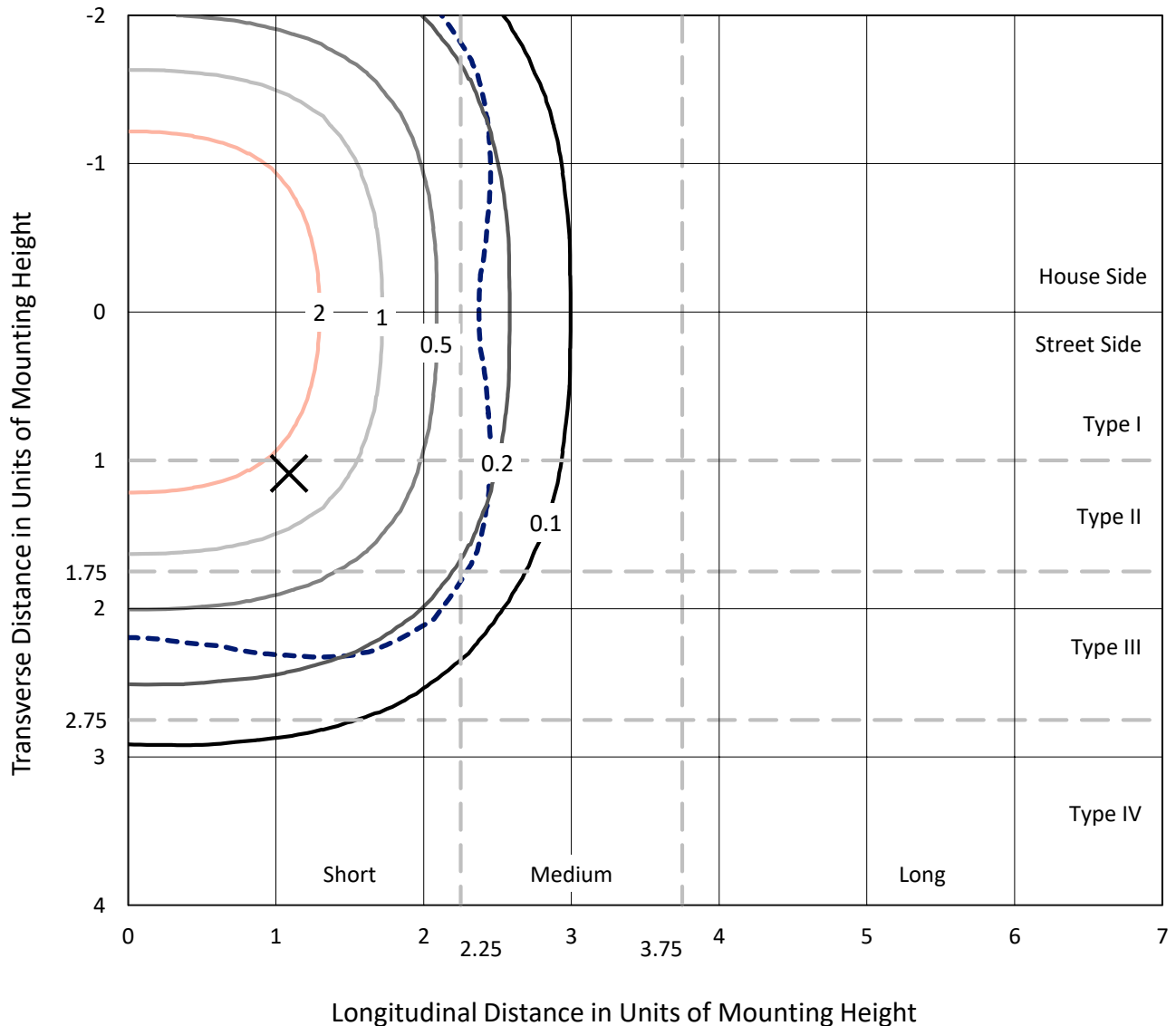
Lumens per Lamp: N/A  
Luminaire Lumens: 13271 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 89.5  
Input Voltage (V): NR  
Input Current (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

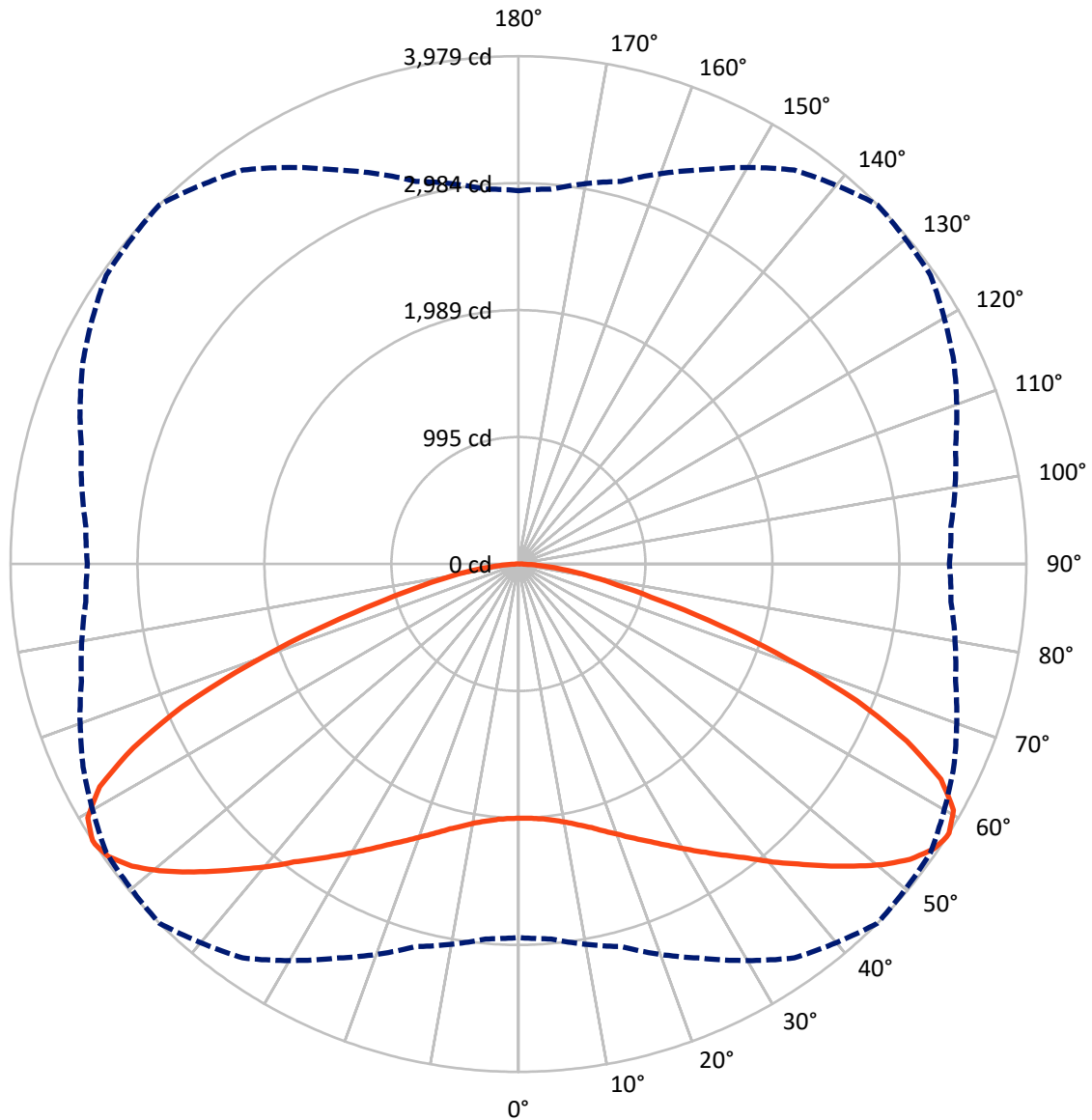
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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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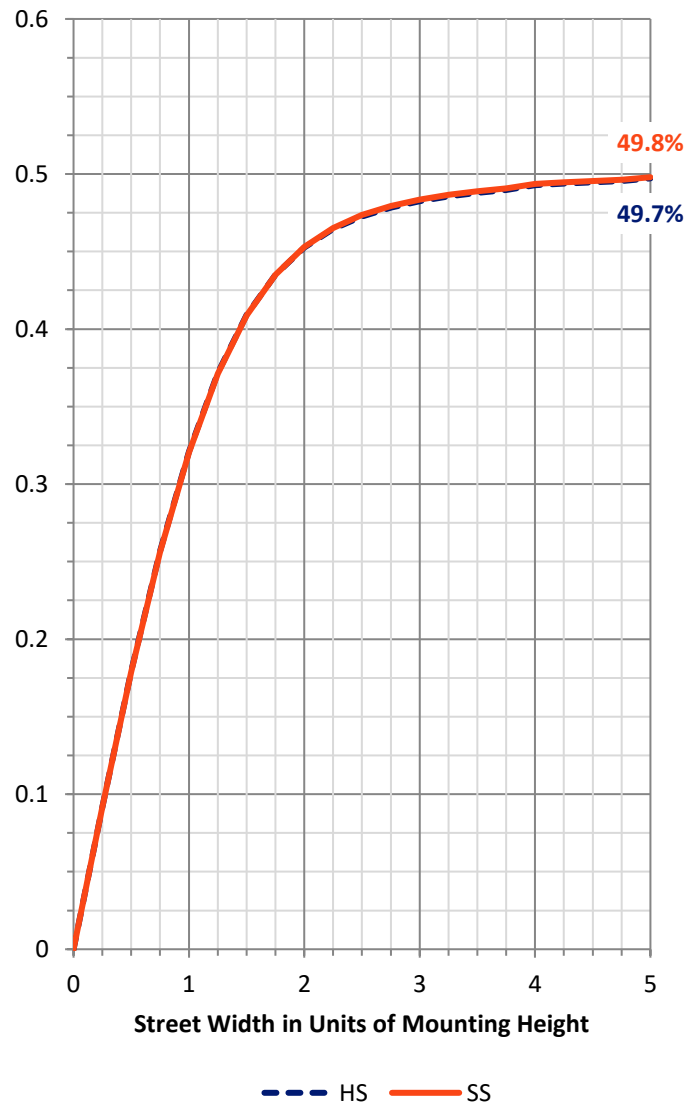
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6635.5	0.0	6635.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6635.5	0.0	6635.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13271.0	0.0	13271.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	1.5
10°-20°	610.6	4.6
20°-30°	1113.5	8.4
30°-40°	1745.7	13.2
40°-50°	2531.2	19.1
50°-60°	3161.1	23.8
60°-70°	2638.4	19.9
70°-80°	1073.0	8.1
80°-90°	204.3	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°	13271.0	100.0
0°-180°	13271.0	100.0



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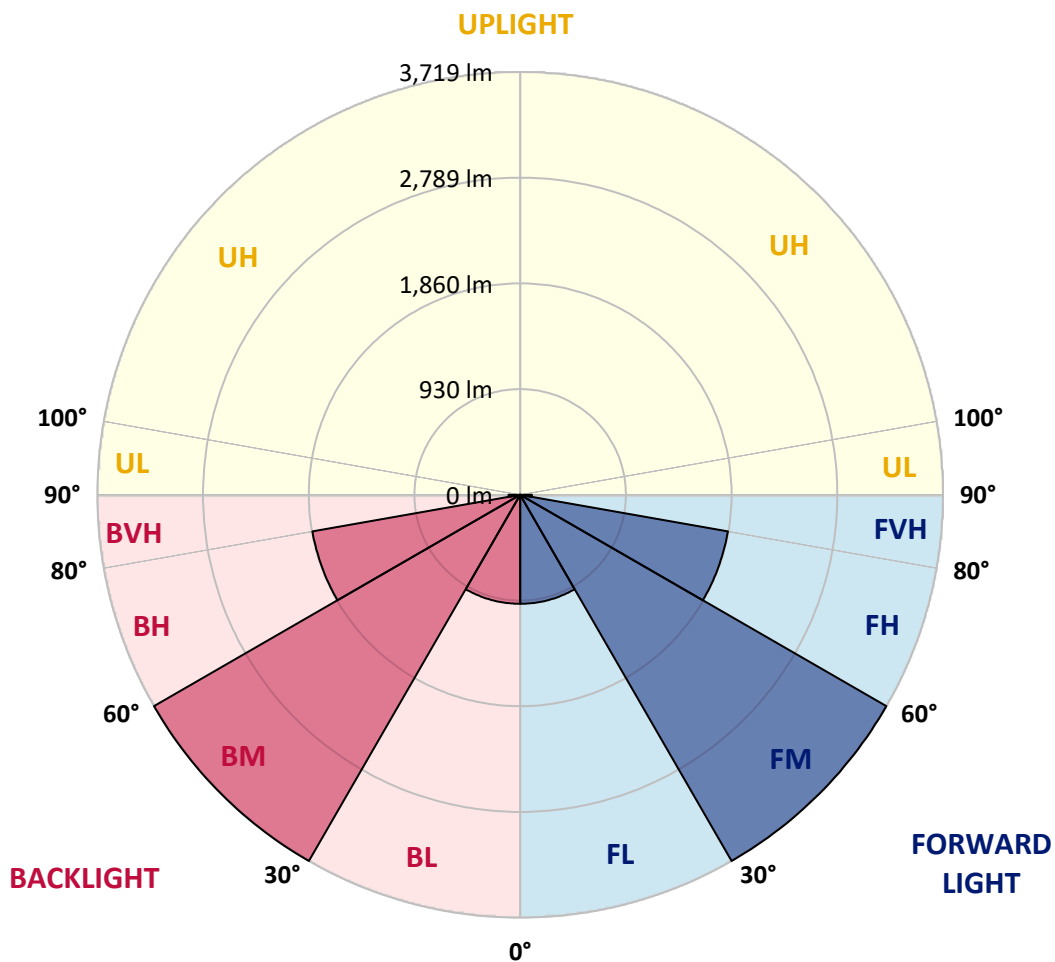
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.6	7.2			
FM	(30°-60°)	3719.0	28.0			
FH	(60°-80°)	1855.7	14.0			G2/5000
FVH	(80°-90°)	102.1	0.8			G2/225
BL	(0°-30°)	958.6	7.2	B2/1000		
BM	(30°-60°)	3719.0	28.0	B3/5000		
BH	(60°-80°)	1855.7	14.0	B3/2500		G2/5000
BVH	(80°-90°)	102.1	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°	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0	1991.0
2.5°	1996.0	1995.2	1996.0	1994.8	1994.8	1994.4	1994.0	1992.5	1993.3	1994.4	1993.7
5°	2009.0	2008.6	2009.0	2007.9	2007.5	2005.9	2005.9	2004.8	2004.4	2005.9	2005.2
7.5°	2029.4	2029.4	2030.1	2029.4	2029.0	2027.4	2025.9	2025.5	2025.1	2025.9	2024.8
10°	2057.8	2058.2	2060.5	2059.7	2059.3	2056.6	2055.9	2054.7	2053.9	2053.9	2054.3
12.5°	2094.2	2095.8	2095.4	2097.3	2098.1	2097.3	2094.2	2090.0	2090.4	2087.3	2087.3
15°	2138.4	2138.8	2140.7	2143.0	2144.9	2142.6	2138.8	2134.6	2132.3	2131.1	2130.7
17.5°	2187.9	2190.2	2191.4	2194.8	2199.4	2201.7	2193.7	2186.8	2181.8	2177.6	2177.9
20°	2241.7	2245.1	2249.7	2255.1	2261.3	2264.3	2257.8	2247.4	2238.2	2233.6	2232.1
22.5°	2303.1	2304.2	2311.2	2321.5	2331.1	2335.0	2328.8	2316.9	2306.9	2300.8	2300.4
25°	2371.4	2370.3	2381.0	2394.1	2409.1	2410.6	2405.6	2394.1	2383.3	2373.4	2372.6
27.5°	2440.9	2441.3	2454.7	2470.5	2488.9	2497.7	2492.4	2482.8	2466.6	2454.4	2453.2
30°	2515.8	2514.6	2532.3	2554.2	2578.0	2592.6	2587.2	2578.7	2561.1	2550.0	2548.8
32.5°	2588.7	2594.1	2611.8	2642.1	2671.3	2692.8	2693.9	2686.6	2668.2	2657.1	2652.5
35°	2672.0	2674.7	2698.9	2738.5	2777.2	2804.1	2807.6	2802.6	2789.1	2772.6	2778.4
37.5°	2755.0	2755.7	2787.2	2839.0	2890.5	2922.0	2938.9	2934.6	2920.0	2908.5	2907.0
40°	2842.9	2847.1	2886.3	2945.0	3016.0	3069.8	3087.4	3087.4	3067.1	3056.3	3044.1
42.5°	2933.5	2936.2	2982.6	3061.7	3148.5	3213.4	3237.9	3236.4	3210.7	3186.5	3182.6
45°	3022.6	3026.0	3079.8	3179.6	3292.8	3373.1	3406.9	3393.4	3349.6	3313.9	3310.1
47.5°	3090.1	3100.5	3165.8	3295.9	3439.9	3536.6	3572.7	3538.5	3465.6	3418.0	3406.9
50°	3130.4	3142.7	3229.9	3395.7	3580.0	3700.2	3724.7	3657.5	3557.0	3486.7	3476.0
52.5°	3121.2	3135.8	3248.3	3462.1	3697.5	3842.6	3844.5	3742.8	3608.0	3515.5	3502.4
55°	3044.8	3061.7	3199.9	3468.3	3771.2	3945.1	3924.4	3783.5	3603.0	3486.7	3467.1
57°	2925.4	2948.1	3102.4	3407.2	3767.0	3978.5	3941.6	3762.7	3544.7	3401.9	3376.5
57.5°	2893.6	2914.7	3067.1	3385.0	3760.1	3978.1	3938.2	3751.2	3520.5	3371.9	3350.8
60°	2656.3	2687.4	2862.1	3203.0	3636.0	3915.5	3861.0	3620.3	3330.5	3147.3	3111.2
62.5°	2376.8	2402.9	2576.4	2937.7	3381.5	3714.7	3667.9	3352.7	3016.4	2811.4	2784.9
65°	2061.6	2070.4	2243.2	2561.1	3010.3	3342.7	3308.6	2961.9	2600.6	2392.9	2362.2
67.5°	1687.7	1718.4	1868.5	2172.2	2570.7	2861.3	2822.9	2459.0	2147.2	1937.6	1925.7
70°	1324.9	1346.0	1475.8	1743.0	2063.5	2250.1	2174.1	1907.7	1655.8	1496.1	1480.0
72.5°	946.0	989.3	1118.7	1327.2	1565.6	1660.4	1572.1	1432.8	1226.2	1130.6	1115.3
75°	628.1	642.7	803.5	972.1	1128.7	1142.5	1102.2	1011.2	914.1	827.3	821.6
77.5°	428.1	441.5	567.8	714.8	785.1	797.0	744.8	719.1	671.8	572.4	543.6
80°	276.8	292.9	392.0	522.1	564.0	554.8	515.6	499.9	476.1	369.7	341.3
82.5°	180.4	188.5	259.1	352.4	382.0	350.1	319.4	343.6	329.4	229.6	218.4
85°	92.1	96.0	134.0	187.0	206.5	180.4	167.8	202.3	186.2	131.3	120.2
87.5°	21.5	24.2	34.6	48.8	52.6	50.7	51.1	67.2	61.8	46.8	43.0
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)