

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: P395109

Luminaire Tested: **LAS45S-T5-Switch-5**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395109
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-5
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 5
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12003 lumens
Efficiency: N/A
Efficacy: 151.6 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 - G1

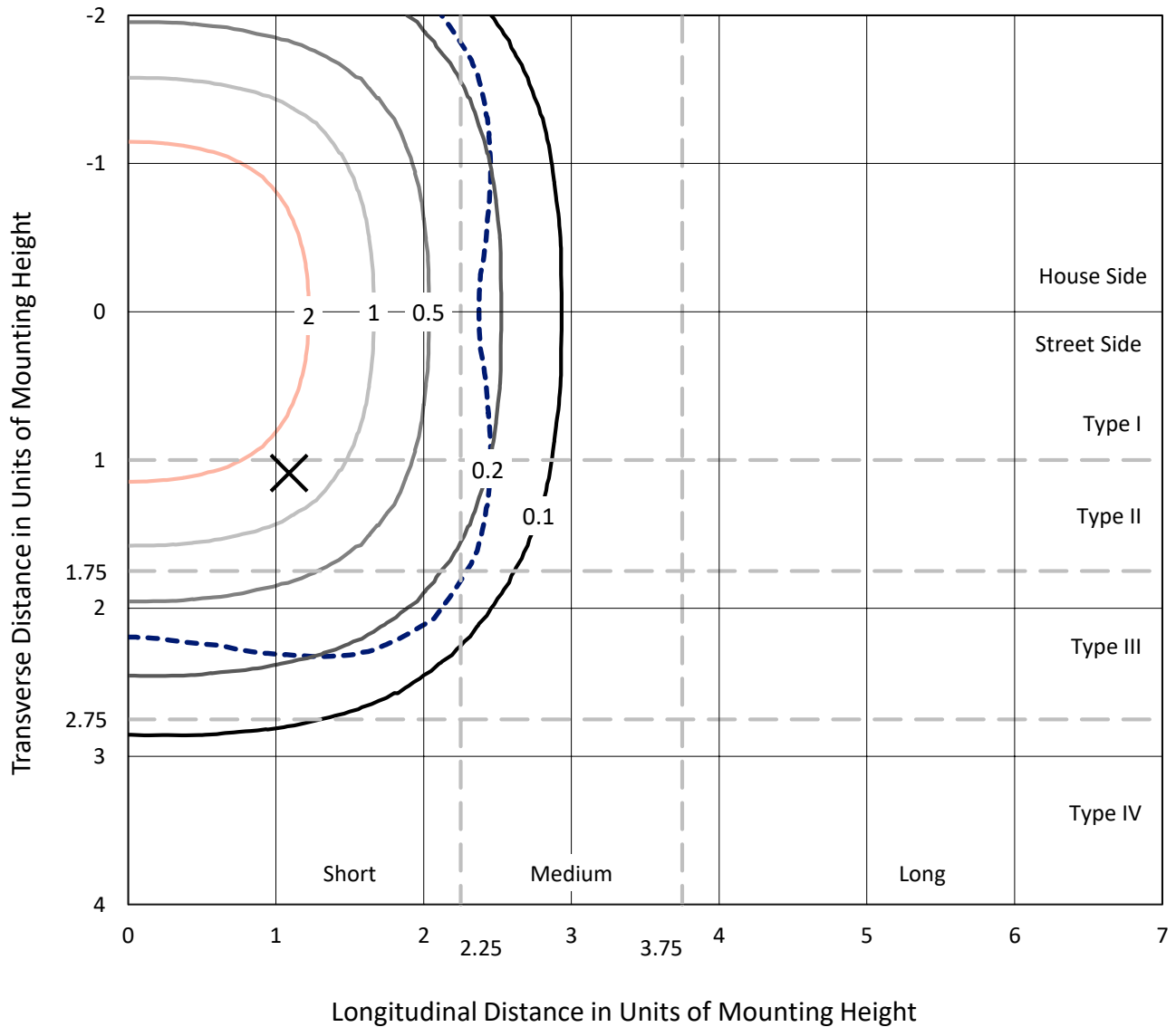
Input Watts (W): 79.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

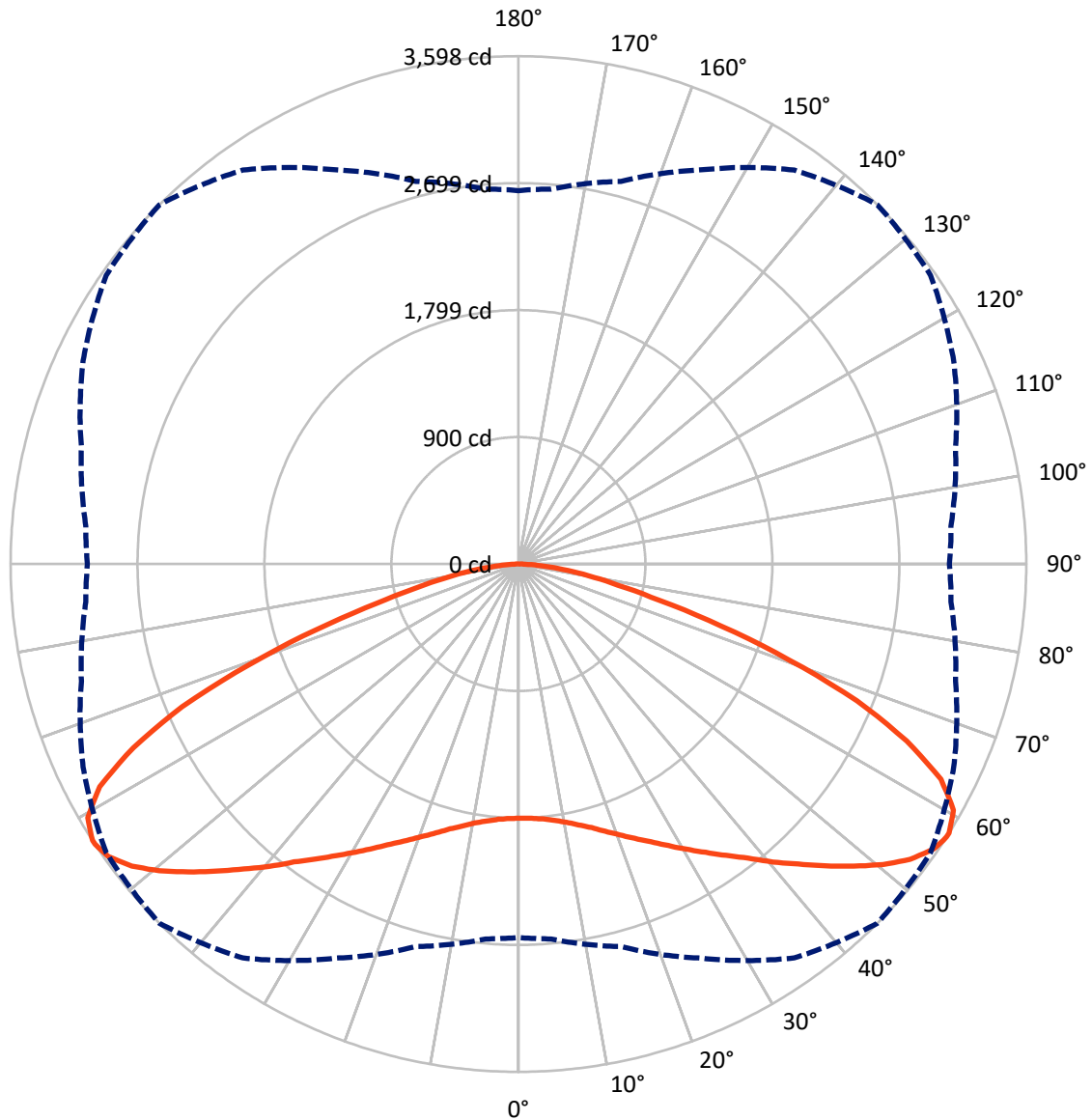
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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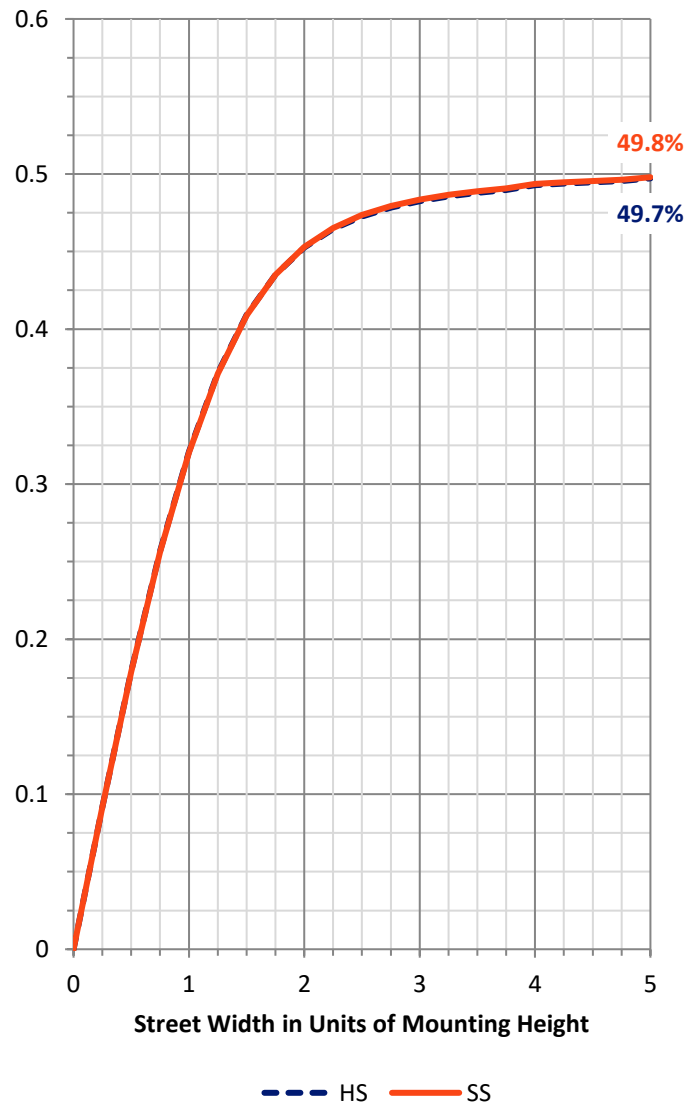
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6001.5	0.0	6001.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6001.5	0.0	6001.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12003.0	0.0	12003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	1.5
10°-20°	552.3	4.6
20°-30°	1007.1	8.4
30°-40°	1578.9	13.2
40°-50°	2289.4	19.1
50°-60°	2859.1	23.8
60°-70°	2386.3	19.9
70°-80°	970.5	8.1
80°-90°	184.8	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°	12003.0	100.0
0°-180°	12003.0	100.0



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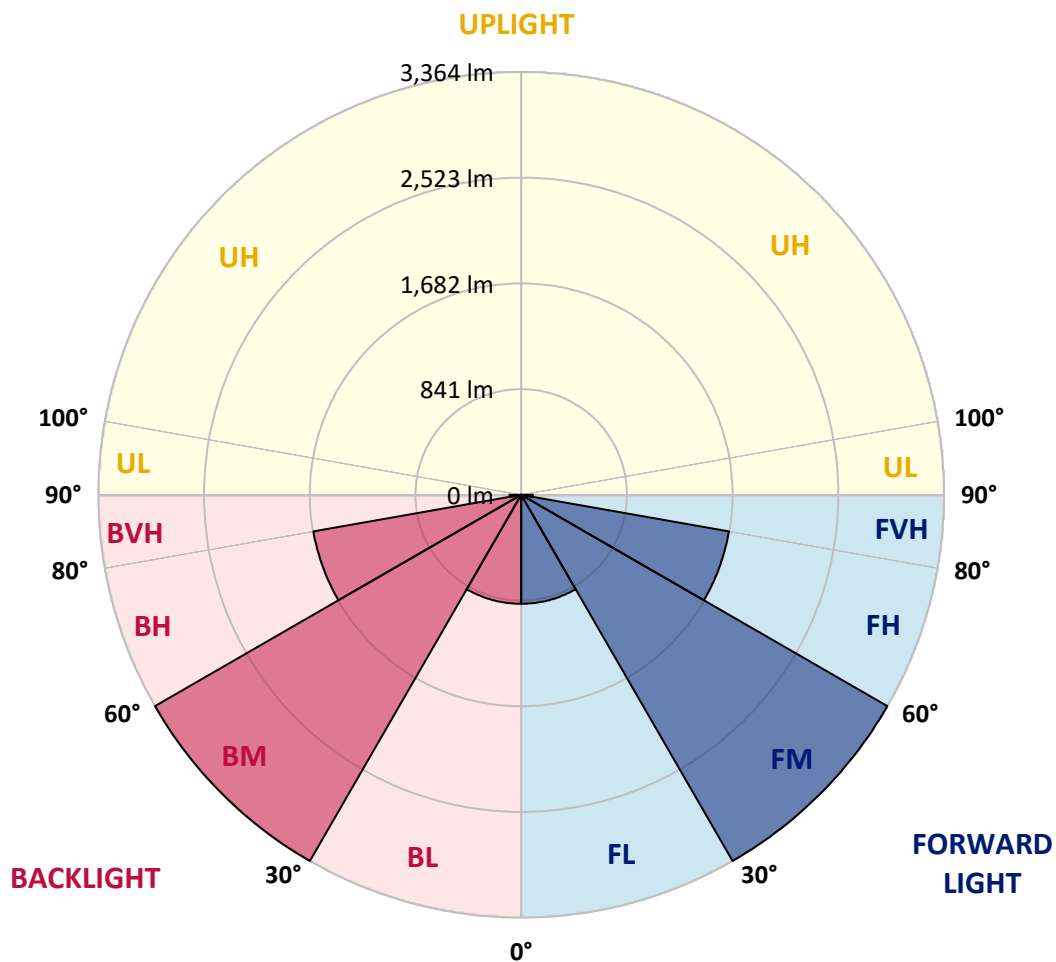
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.0	7.2			
FM	(30°-60°)	3363.7	28.0			
FH	(60°-80°)	1678.4	14.0			G1/1800
FVH	(80°-90°)	92.4	0.8			G1/100
BL	(0°-30°)	867.0	7.2	B2/1000		
BM	(30°-60°)	3363.7	28.0	B3/5000		
BH	(60°-80°)	1678.4	14.0	B3/2500		G1/1800
BVH	(80°-90°)	92.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7
2.5°	1805.3	1804.6	1805.3	1804.2	1804.2	1803.9	1803.5	1802.1	1802.8	1803.9	1803.2
5°	1817.1	1816.7	1817.1	1816.0	1815.7	1814.3	1814.3	1813.2	1812.9	1814.3	1813.6
7.5°	1835.5	1835.5	1836.2	1835.5	1835.1	1833.7	1832.3	1832.0	1831.6	1832.3	1831.3
10°	1861.2	1861.5	1863.6	1862.9	1862.6	1860.1	1859.4	1858.4	1857.7	1857.7	1858.0
12.5°	1894.2	1895.5	1895.2	1896.9	1897.6	1896.9	1894.2	1890.3	1890.7	1887.9	1887.9
15°	1934.1	1934.4	1936.2	1938.2	1940.0	1937.9	1934.4	1930.6	1928.5	1927.5	1927.1
17.5°	1978.9	1981.0	1982.0	1985.1	1989.3	1991.4	1984.1	1977.8	1973.3	1969.5	1969.8
20°	2027.5	2030.6	2034.8	2039.6	2045.2	2048.0	2042.1	2032.7	2024.4	2020.2	2018.8
22.5°	2083.0	2084.1	2090.3	2099.7	2108.4	2111.9	2106.3	2095.5	2086.5	2081.0	2080.6
25°	2144.9	2143.8	2153.5	2165.3	2178.9	2180.3	2175.8	2165.3	2155.6	2146.6	2145.9
27.5°	2207.7	2208.0	2220.2	2234.4	2251.1	2259.1	2254.2	2245.5	2231.0	2219.9	2218.8
30°	2275.4	2274.4	2290.3	2310.1	2331.7	2344.9	2340.0	2332.4	2316.4	2306.3	2305.3
32.5°	2341.4	2346.2	2362.2	2389.7	2416.0	2435.5	2436.5	2429.9	2413.3	2403.2	2399.0
35°	2416.7	2419.2	2441.0	2476.8	2511.9	2536.2	2539.3	2534.8	2522.6	2507.7	2512.9
37.5°	2491.7	2492.4	2520.9	2567.8	2614.3	2642.8	2658.1	2654.2	2641.0	2630.6	2629.2
40°	2571.3	2575.1	2610.5	2663.6	2727.9	2776.5	2792.4	2792.4	2774.0	2764.3	2753.2
42.5°	2653.2	2655.6	2697.6	2769.2	2847.6	2906.3	2928.6	2927.2	2903.9	2882.0	2878.6
45°	2733.8	2736.9	2785.5	2875.8	2978.2	3050.8	3081.3	3069.2	3029.6	2997.3	2993.8
47.5°	2794.9	2804.2	2863.3	2981.0	3111.2	3198.7	3231.3	3200.4	3134.5	3091.4	3081.3
50°	2831.3	2842.4	2921.3	3071.3	3237.9	3346.6	3368.8	3308.1	3217.1	3153.6	3143.8
52.5°	2823.0	2836.2	2937.9	3131.3	3344.2	3475.4	3477.2	3385.2	3263.3	3179.6	3167.8
55°	2753.9	2769.2	2894.2	3136.9	3410.9	3568.2	3549.4	3422.0	3258.8	3153.6	3135.9
57°	2645.9	2666.4	2806.0	3081.7	3407.0	3598.4	3565.0	3403.2	3206.0	3076.8	3053.9
57.5°	2617.1	2636.2	2774.0	3061.5	3400.8	3598.0	3561.9	3392.8	3184.1	3049.7	3030.6
60°	2402.5	2430.6	2588.6	2897.0	3288.6	3541.4	3492.1	3274.4	3012.2	2846.6	2814.0
62.5°	2149.7	2173.3	2330.3	2657.0	3058.4	3359.8	3317.5	3032.4	2728.2	2542.8	2518.8
65°	1864.6	1872.6	2028.9	2316.4	2722.6	3023.3	2992.4	2678.9	2352.1	2164.3	2136.5
67.5°	1526.4	1554.2	1690.0	1964.6	2325.1	2587.9	2553.2	2224.0	1942.1	1752.5	1741.7
70°	1198.3	1217.4	1334.8	1576.4	1866.4	2035.1	1966.4	1725.4	1497.6	1353.2	1338.6
72.5°	855.6	894.8	1011.8	1200.4	1416.0	1501.8	1421.9	1295.9	1109.1	1022.6	1008.7
75°	568.1	581.3	726.8	879.2	1020.9	1033.4	996.9	914.6	826.8	748.3	743.1
77.5°	387.2	399.3	513.6	646.5	710.1	720.9	673.6	650.4	607.7	517.7	491.7
80°	250.4	264.9	354.5	472.2	510.1	501.8	466.3	452.1	430.6	334.4	308.7
82.5°	163.2	170.5	234.4	318.8	345.5	316.7	288.9	310.8	297.9	207.6	197.6
85°	83.3	86.8	121.2	169.1	186.8	163.2	151.7	183.0	168.4	118.8	108.7
87.5°	19.4	21.9	31.3	44.1	47.6	45.8	46.2	60.8	55.9	42.4	38.9
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)