

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: P395110

Luminaire Tested: **LAS45S-T5-Switch-6**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395110
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-6
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 6
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11473 lumens
Efficiency: N/A
Efficacy: 152.6 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

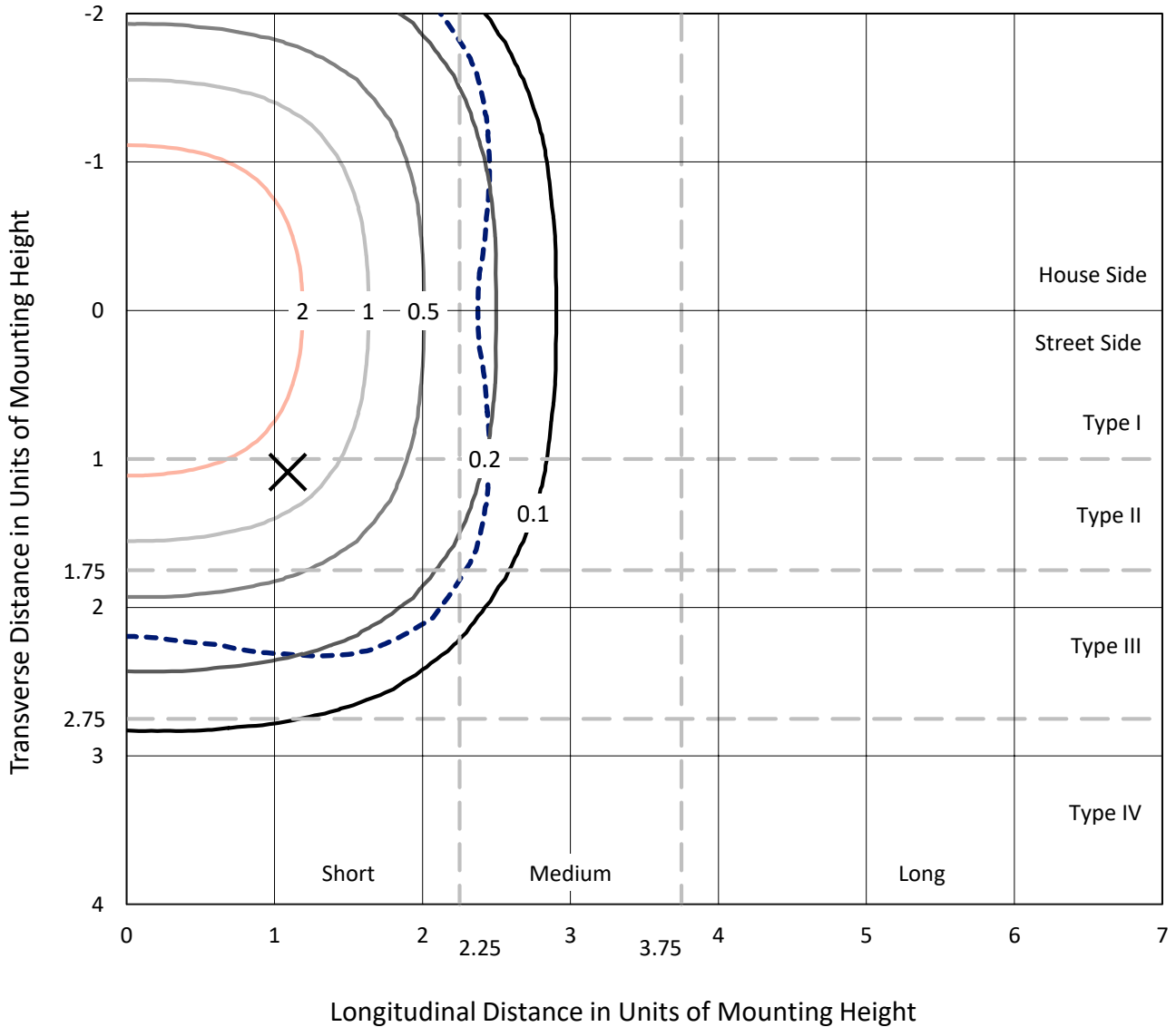
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

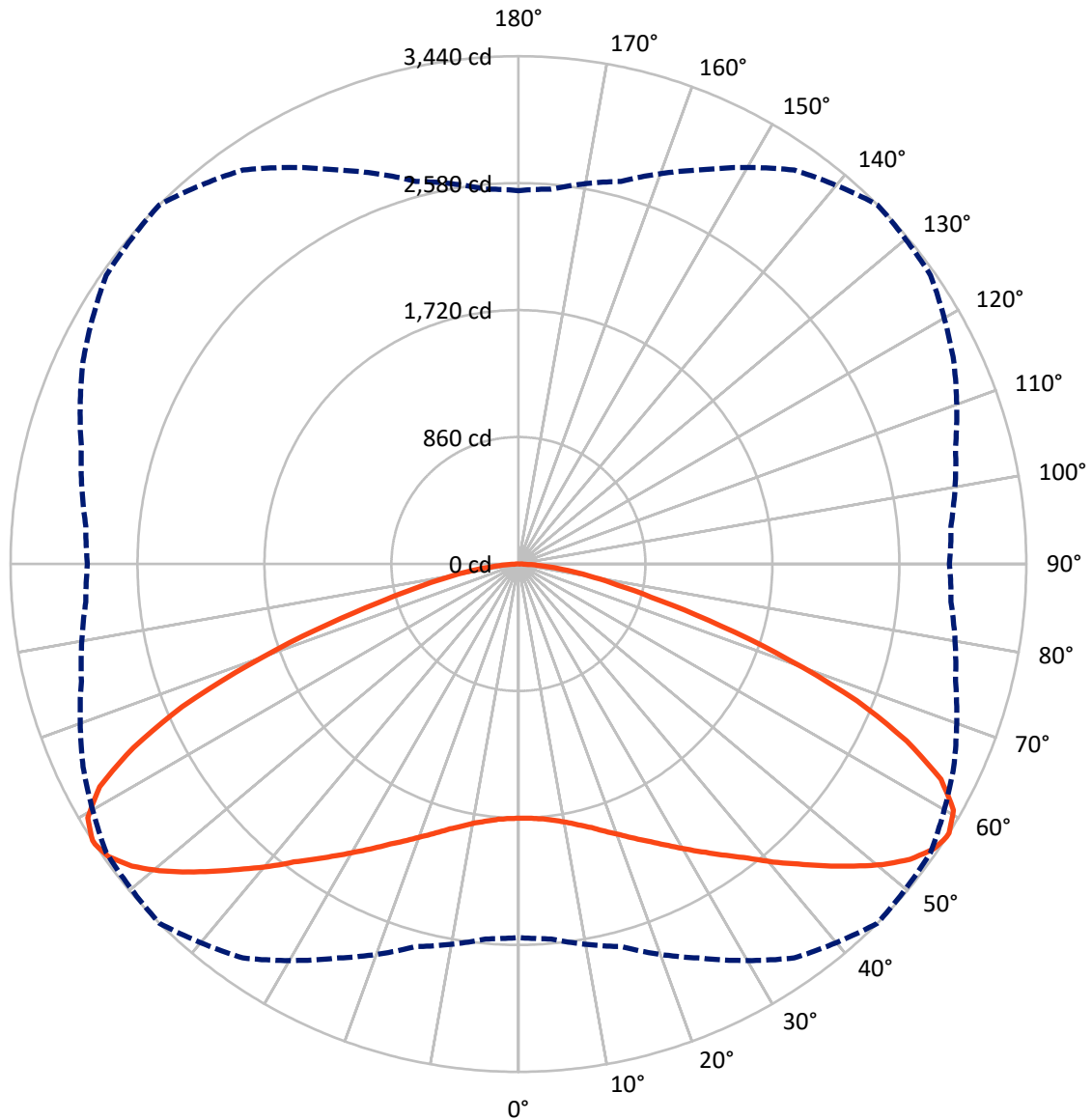
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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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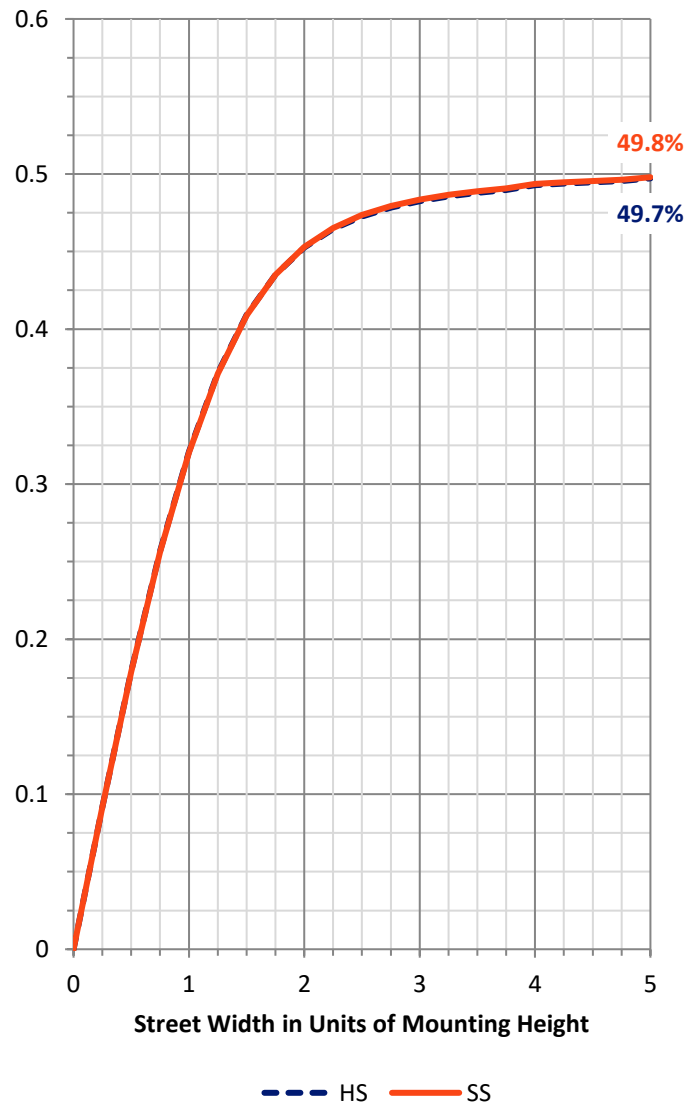
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5736.5	0.0	5736.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5736.5	0.0	5736.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11473.0	0.0	11473.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	1.5
10°-20°	527.9	4.6
20°-30°	962.6	8.4
30°-40°	1509.2	13.2
40°-50°	2188.3	19.1
50°-60°	2732.9	23.8
60°-70°	2280.9	19.9
70°-80°	927.7	8.1
80°-90°	176.6	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°	11473.0	100.0
0°-180°	11473.0	100.0



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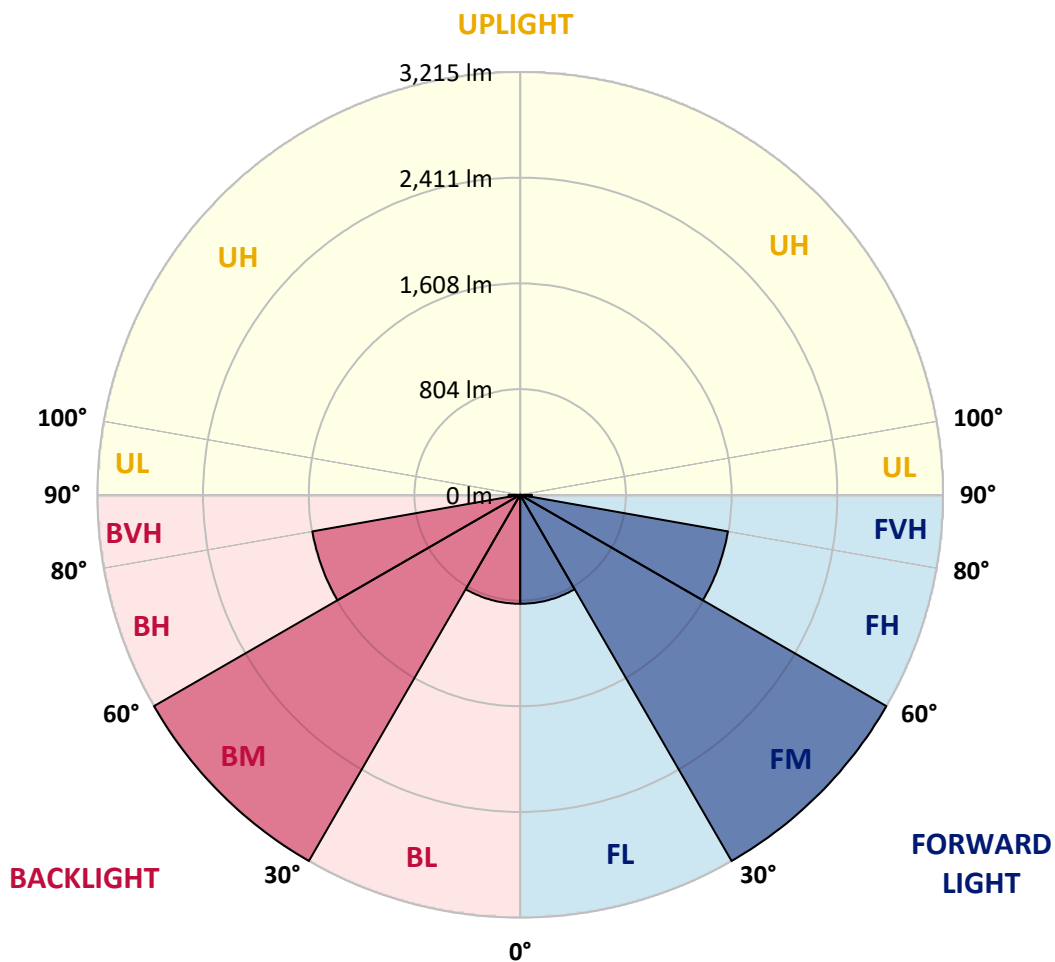
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.7	7.2			
FM	(30°-60°)	3215.2	28.0			
FH	(60°-80°)	1604.3	14.0			G1/1800
FVH	(80°-90°)	88.3	0.8			G1/100
BL	(0°-30°)	828.7	7.2	B2/1000		
BM	(30°-60°)	3215.2	28.0	B3/5000		
BH	(60°-80°)	1604.3	14.0	B3/2500		G1/1800
BVH	(80°-90°)	88.3	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°	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1725.5	1724.9	1725.5	1724.6	1724.6	1724.2	1723.9	1722.6	1723.2	1724.2	1723.6
5°	1736.8	1736.5	1736.8	1735.8	1735.5	1734.2	1734.2	1733.2	1732.8	1734.2	1733.5
7.5°	1754.4	1754.4	1755.1	1754.4	1754.1	1752.8	1751.4	1751.1	1750.8	1751.4	1750.4
10°	1779.0	1779.3	1781.3	1780.6	1780.3	1778.0	1777.3	1776.3	1775.7	1775.7	1776.0
12.5°	1810.5	1811.8	1811.5	1813.2	1813.8	1813.2	1810.5	1806.9	1807.2	1804.5	1804.5
15°	1848.7	1849.0	1850.7	1852.7	1854.3	1852.3	1849.0	1845.4	1843.4	1842.4	1842.0
17.5°	1891.5	1893.5	1894.5	1897.5	1901.5	1903.4	1896.5	1890.5	1886.2	1882.5	1882.9
20°	1938.0	1940.9	1944.9	1949.6	1954.9	1957.5	1951.9	1942.9	1935.0	1931.0	1929.7
22.5°	1991.1	1992.1	1998.0	2007.0	2015.3	2018.6	2013.3	2003.0	1994.4	1989.1	1988.7
25°	2050.1	2049.1	2058.4	2069.7	2082.7	2084.0	2079.7	2069.7	2060.4	2051.8	2051.1
27.5°	2110.2	2110.6	2122.2	2135.8	2151.7	2159.3	2154.7	2146.4	2132.5	2121.8	2120.8
30°	2174.9	2173.9	2189.2	2208.1	2228.7	2241.3	2236.7	2229.4	2214.1	2204.5	2203.5
32.5°	2238.0	2242.6	2257.9	2284.1	2309.4	2327.9	2328.9	2322.6	2306.7	2297.1	2293.1
35°	2310.0	2312.3	2333.3	2367.4	2401.0	2424.2	2427.2	2422.9	2411.3	2397.0	2402.0
37.5°	2381.7	2382.4	2409.6	2454.4	2498.9	2526.1	2540.7	2537.0	2524.4	2514.5	2513.1
40°	2457.7	2461.4	2495.2	2546.0	2607.4	2653.9	2669.1	2669.1	2651.5	2642.3	2631.6
42.5°	2536.0	2538.4	2578.5	2646.9	2721.9	2778.0	2799.2	2797.9	2775.7	2754.8	2751.4
45°	2613.0	2616.0	2662.5	2748.8	2846.7	2916.1	2945.3	2933.7	2895.8	2865.0	2861.6
47.5°	2671.5	2680.4	2736.8	2849.4	2973.8	3057.5	3088.7	3059.1	2996.1	2954.9	2945.3
50°	2706.3	2716.9	2792.3	2935.7	3095.0	3198.8	3220.1	3162.0	3075.1	3014.3	3005.0
52.5°	2698.3	2711.0	2808.2	2993.1	3196.5	3322.0	3323.6	3235.7	3119.2	3039.2	3027.9
55°	2632.3	2646.9	2766.4	2998.4	3260.3	3410.6	3392.7	3270.9	3114.9	3014.3	2997.4
57°	2529.1	2548.7	2682.1	2945.6	3256.6	3439.5	3407.6	3252.9	3064.4	2941.0	2919.1
57.5°	2501.5	2519.8	2651.5	2926.4	3250.6	3439.1	3404.6	3243.0	3043.5	2915.1	2896.8
60°	2296.4	2323.3	2474.3	2769.0	3143.4	3385.0	3337.9	3129.8	2879.2	2720.9	2689.7
62.5°	2054.8	2077.4	2227.4	2539.7	2923.4	3211.5	3171.0	2898.5	2607.7	2430.5	2407.6
65°	1782.3	1789.9	1939.3	2214.1	2602.4	2889.9	2860.3	2560.6	2248.3	2068.7	2042.2
67.5°	1459.0	1485.6	1615.4	1877.9	2222.4	2473.6	2440.5	2125.8	1856.3	1675.1	1664.8
70°	1145.4	1163.6	1275.8	1506.8	1784.0	1945.3	1879.5	1649.2	1431.5	1293.4	1279.5
72.5°	817.8	855.3	967.2	1147.4	1353.5	1435.5	1359.1	1238.6	1060.1	977.4	964.2
75°	543.0	555.6	694.7	840.4	975.8	987.7	952.9	874.2	790.3	715.2	710.3
77.5°	370.1	381.7	490.9	618.0	678.7	689.0	643.9	621.6	580.8	494.9	470.0
80°	239.3	253.2	338.9	451.4	487.6	479.6	445.7	432.1	411.6	319.6	295.1
82.5°	156.0	163.0	224.0	304.7	330.2	302.7	276.1	297.1	284.8	198.5	188.9
85°	79.7	83.0	115.8	161.6	178.6	156.0	145.0	174.9	161.0	113.5	103.9
87.5°	18.6	20.9	29.9	42.2	45.5	43.8	44.1	58.1	53.4	40.5	37.2
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)