

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: P395111

Luminaire Tested: **LAS45S-T5-Switch-7**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395111
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-7
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 7
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10634 lumens
Efficiency: N/A
Efficacy: 154.6 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

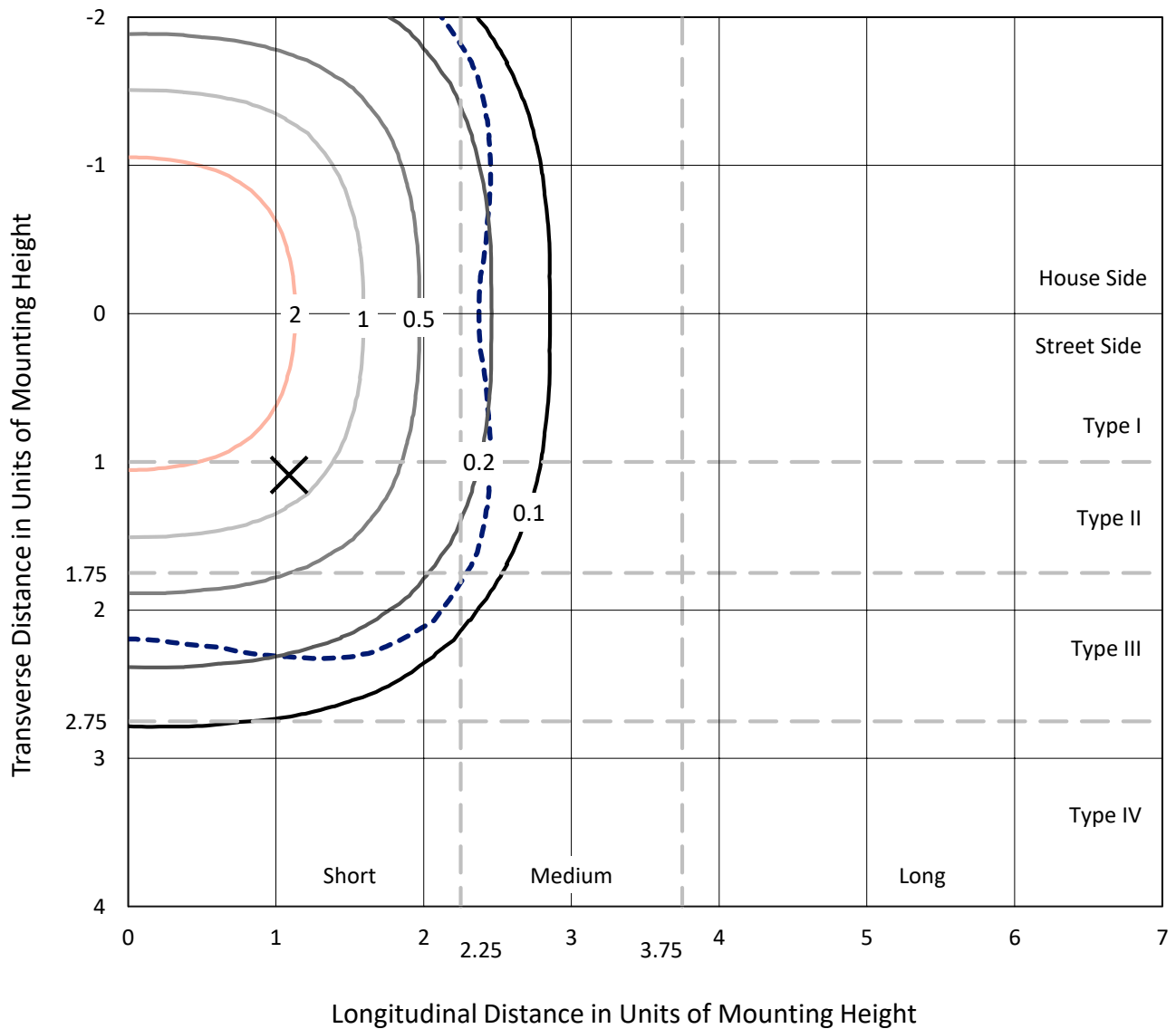
Input Watts (W): 68.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395111
 CATALOG NUMBER: LAS45S-T5-Switch-7

Iso-Footcandle Lines of Horizontal Illumination

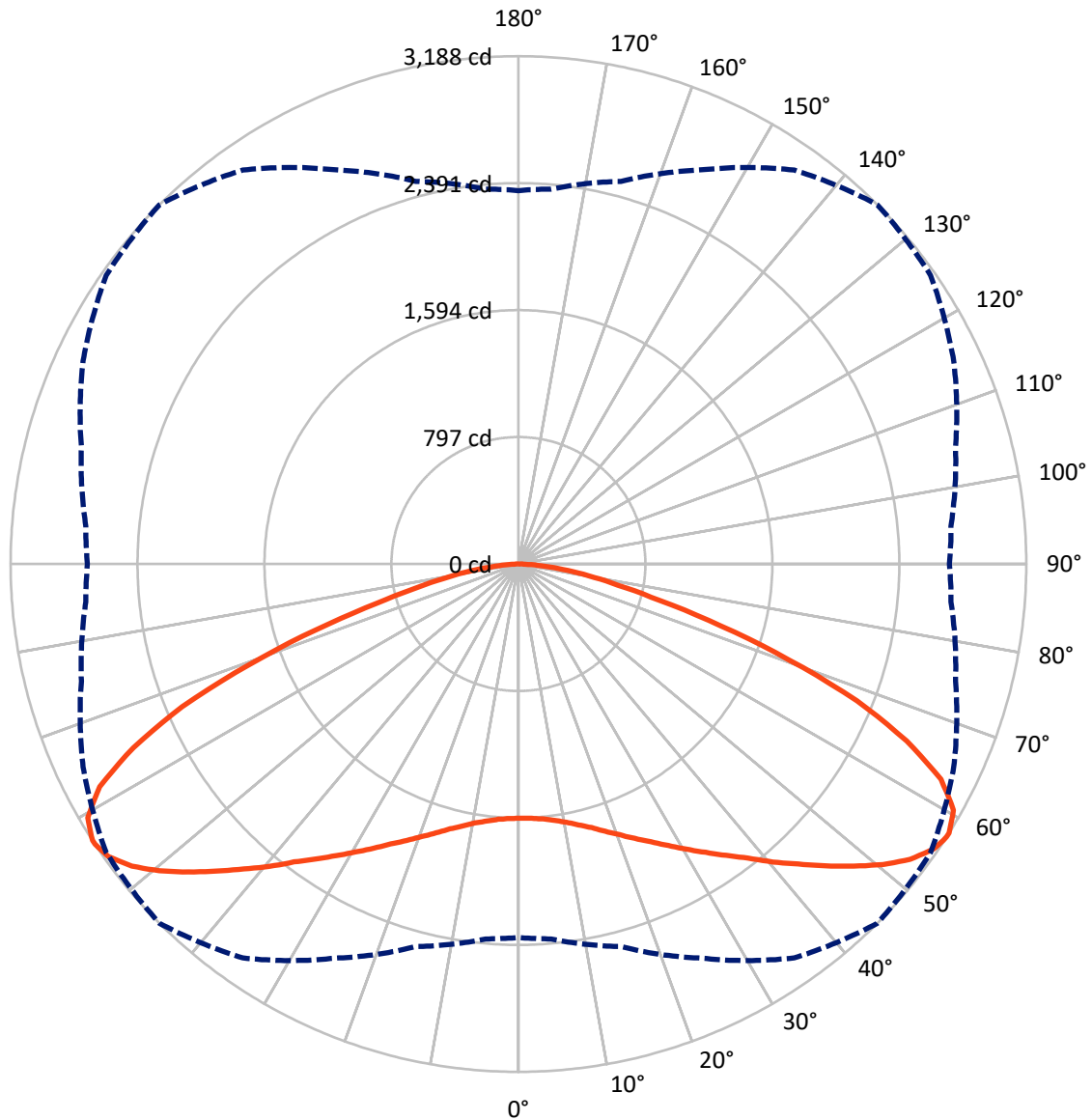
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P395111
CATALOG NUMBER: LAS45S-T5-Switch-7

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P395111

CATALOG NUMBER: LAS45S-T5-Switch-7

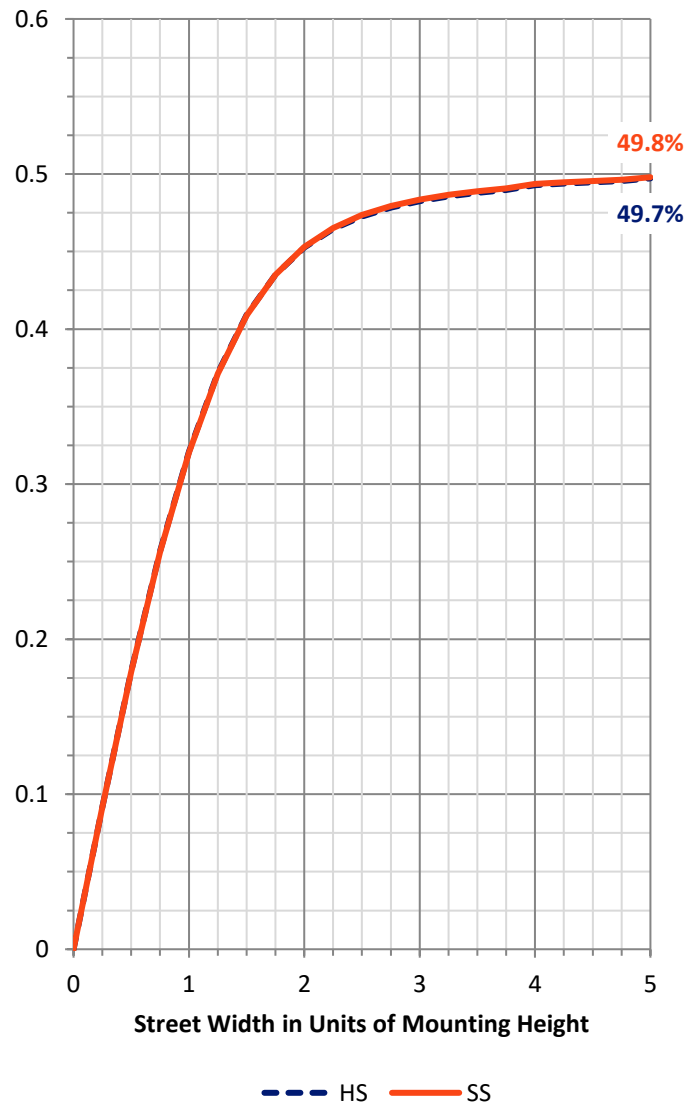
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5317.0	0.0	5317.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5317.0	0.0	5317.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10634.0	0.0	10634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.5
10°-20°	489.3	4.6
20°-30°	892.2	8.4
30°-40°	1398.8	13.2
40°-50°	2028.2	19.1
50°-60°	2533.0	23.8
60°-70°	2114.1	19.9
70°-80°	859.8	8.1
80°-90°	163.7	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°	10634.0	100.0
0°-180°	10634.0	100.0



REPORT NUMBER: P395111

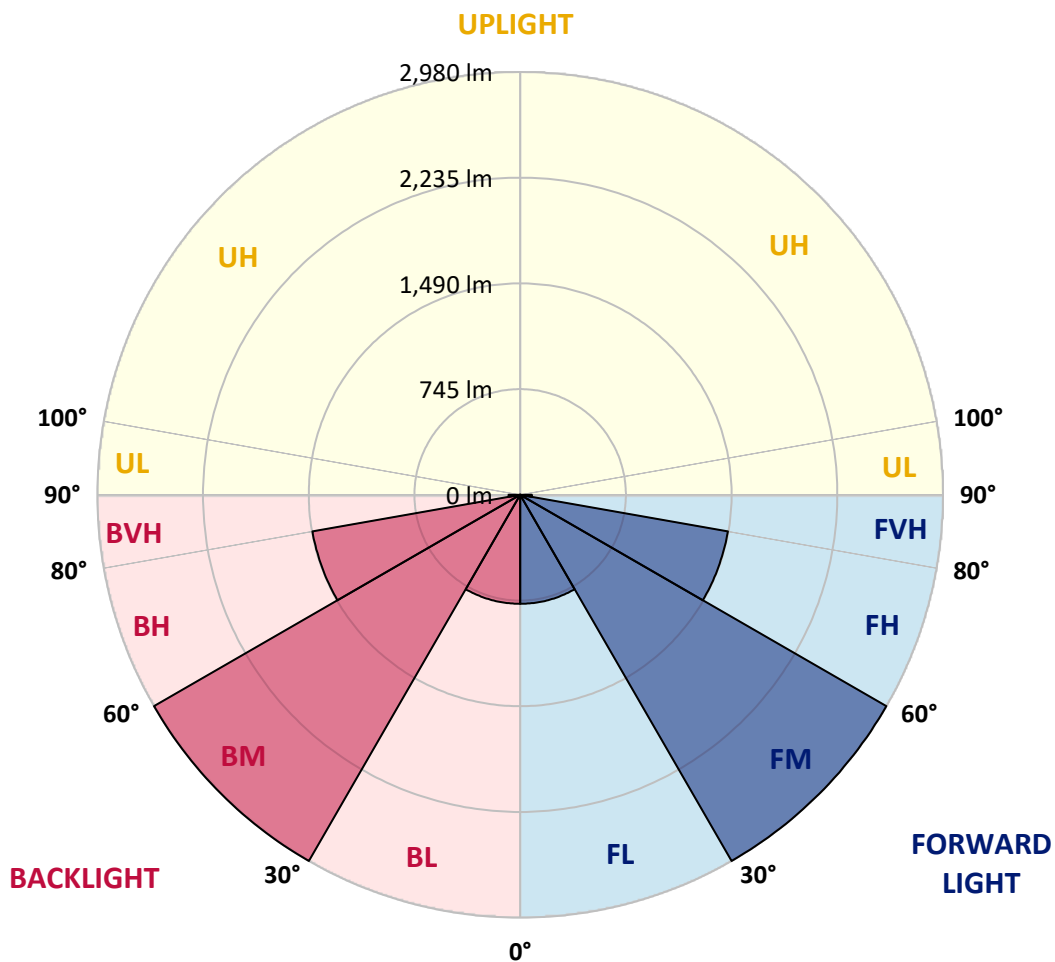
CATALOG NUMBER: LAS45S-T5-Switch-7

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.1	7.2			
FM	(30°-60°)	2980.0	28.0			
FH	(60°-80°)	1487.0	14.0			G1/1800
FVH	(80°-90°)	81.8	0.8			G1/100
BL	(0°-30°)	768.1	7.2	B2/1000		
BM	(30°-60°)	2980.0	28.0	B3/5000		
BH	(60°-80°)	1487.0	14.0	B3/2500		G1/1800
BVH	(80°-90°)	81.8	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





REPORT NUMBER: P395111
 CATALOG NUMBER: LAS45S-T5-Switch-7

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4	1595.4
2.5°	1599.4	1598.7	1599.4	1598.4	1598.4	1598.4	1597.8	1596.6	1597.2	1598.1	1597.5
5°	1609.8	1609.5	1609.8	1608.9	1608.6	1608.6	1607.4	1606.4	1606.1	1607.4	1606.7
7.5°	1626.1	1626.1	1626.7	1626.1	1625.8	1624.6	1623.4	1623.0	1622.7	1623.4	1622.4
10°	1648.9	1649.2	1651.0	1650.4	1650.1	1648.0	1647.4	1646.4	1645.8	1645.8	1646.1
12.5°	1678.1	1679.3	1679.0	1680.6	1681.2	1680.6	1678.1	1674.7	1675.0	1672.6	1672.6
15°	1713.5	1713.8	1715.3	1717.2	1718.7	1716.9	1713.8	1710.4	1708.6	1707.6	1707.3
17.5°	1753.2	1755.0	1755.9	1758.7	1762.4	1764.2	1757.8	1752.3	1748.3	1744.9	1745.2
20°	1796.2	1799.0	1802.7	1807.0	1811.9	1814.4	1809.2	1800.9	1793.5	1789.8	1788.6
22.5°	1845.5	1846.4	1851.9	1860.2	1867.9	1871.0	1866.1	1856.5	1848.5	1843.6	1843.3
25°	1900.2	1899.3	1907.9	1918.4	1930.4	1931.6	1927.6	1918.4	1909.8	1901.8	1901.1
27.5°	1955.9	1956.2	1967.0	1979.6	1994.4	2001.4	1997.1	1989.4	1976.5	1966.7	1965.7
30°	2015.9	2015.0	2029.1	2046.7	2065.7	2077.4	2073.1	2066.3	2052.2	2043.3	2042.3
32.5°	2074.3	2078.6	2092.8	2117.1	2140.5	2157.7	2158.6	2152.8	2138.0	2129.1	2125.4
35°	2141.1	2143.2	2162.6	2194.3	2225.4	2246.9	2249.7	2245.7	2234.9	2221.7	2226.3
37.5°	2207.5	2208.2	2233.4	2274.9	2316.1	2341.4	2354.9	2351.5	2339.8	2330.6	2329.4
40°	2278.0	2281.4	2312.8	2359.8	2416.7	2459.8	2473.9	2473.9	2457.6	2449.0	2439.2
42.5°	2350.6	2352.7	2390.0	2453.3	2522.9	2574.9	2594.5	2593.3	2572.7	2553.3	2550.2
45°	2422.0	2424.7	2467.8	2547.8	2638.5	2702.8	2729.9	2719.1	2684.1	2655.4	2652.4
47.5°	2476.1	2484.4	2536.7	2641.0	2756.4	2833.9	2862.8	2835.4	2777.0	2738.8	2729.9
50°	2508.4	2518.2	2588.1	2721.0	2868.6	2964.9	2984.6	2930.8	2850.2	2793.9	2785.3
52.5°	2501.0	2512.7	2602.8	2774.2	2962.8	3079.1	3080.6	2999.1	2891.1	2817.0	2806.5
55°	2439.8	2453.3	2564.1	2779.1	3021.8	3161.2	3144.6	3031.7	2887.1	2793.9	2778.2
57°	2344.1	2362.3	2485.9	2730.2	3018.5	3188.0	3158.4	3015.1	2840.3	2725.9	2705.6
57.5°	2318.6	2335.5	2457.6	2712.4	3012.9	3187.6	3155.7	3005.8	2821.0	2701.9	2685.0
60°	2128.5	2153.4	2293.4	2566.5	2913.5	3137.5	3093.8	2900.9	2668.7	2521.9	2493.0
62.5°	1904.5	1925.4	2064.5	2354.0	2709.6	2976.6	2939.1	2686.5	2417.0	2252.8	2231.5
65°	1652.0	1659.0	1797.5	2052.2	2412.1	2678.5	2651.1	2373.4	2083.9	1917.4	1892.8
67.5°	1352.3	1376.9	1497.2	1740.6	2059.9	2292.8	2262.0	1970.4	1720.6	1552.6	1543.1
70°	1061.6	1078.5	1182.5	1396.6	1653.5	1803.0	1742.1	1528.6	1326.8	1198.8	1185.9
72.5°	758.0	792.8	896.4	1063.5	1254.5	1330.5	1259.7	1148.1	982.6	906.0	893.7
75°	503.3	515.0	643.9	778.9	904.4	915.5	883.2	810.3	732.5	662.9	658.3
77.5°	343.0	353.8	455.0	572.8	629.1	638.6	596.8	576.2	538.3	458.7	435.6
80°	221.8	234.7	314.1	418.4	451.9	444.5	413.1	400.5	381.5	296.2	273.5
82.5°	144.6	151.0	207.6	282.4	306.1	280.6	255.9	275.3	263.9	184.0	175.0
85°	73.8	76.9	107.4	149.8	165.5	144.6	134.4	162.1	149.2	105.2	96.3
87.5°	17.2	19.4	27.7	39.1	42.1	40.6	40.9	53.8	49.5	37.5	34.5
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)