

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: P395113

Luminaire Tested: **LAS45S-T5-Switch-9**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395113
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-9
Description: AREA SITE SMALL HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 9
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4868 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

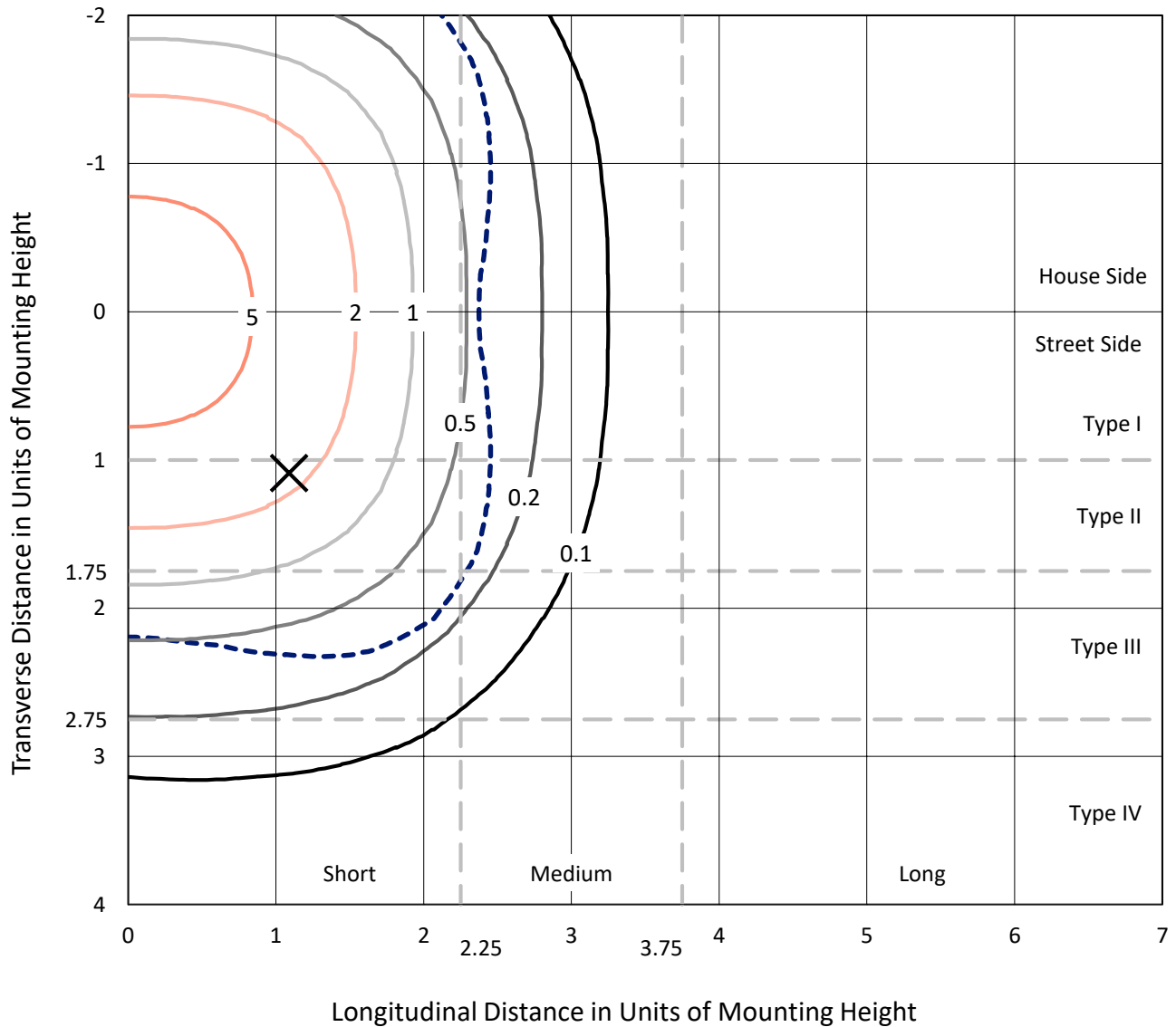
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

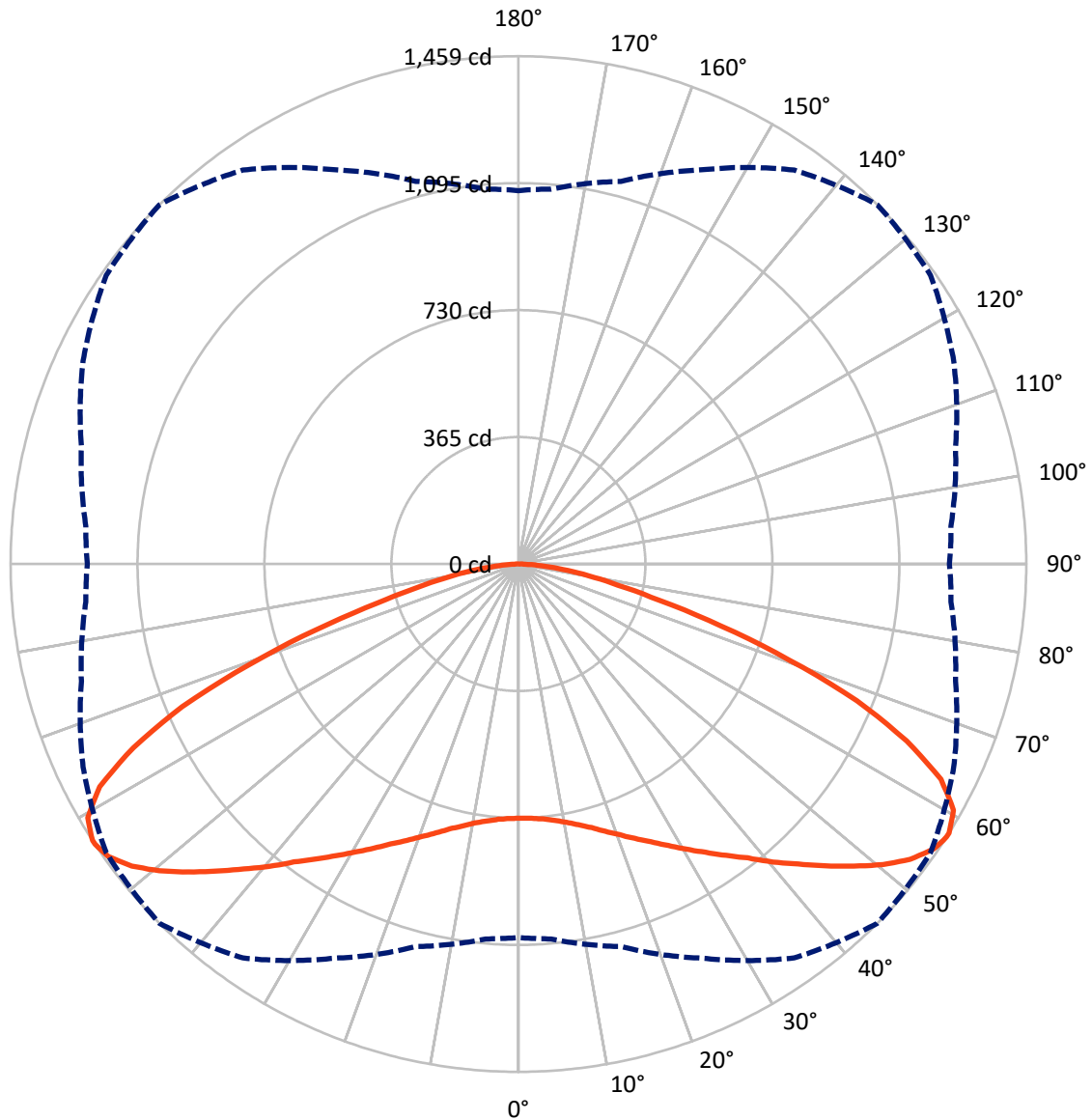
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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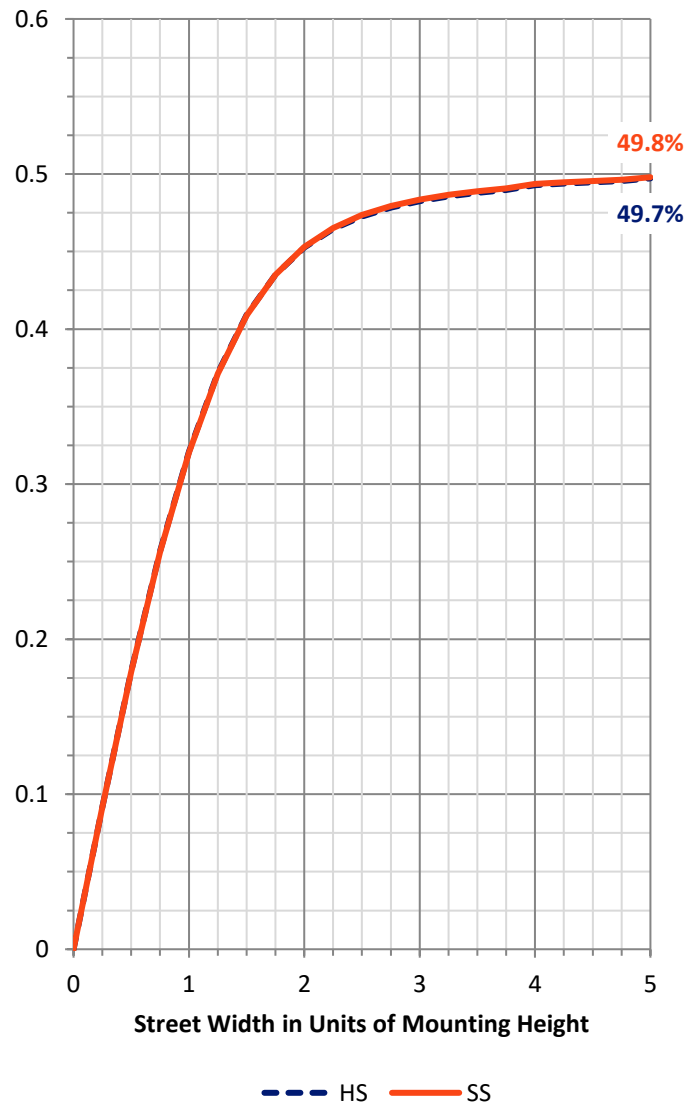
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2434.0	0.0	2434.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2434.0	0.0	2434.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4868.0	0.0	4868.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.5
10°-20°	224.0	4.6
20°-30°	408.4	8.4
30°-40°	640.4	13.2
40°-50°	928.5	19.1
50°-60°	1159.6	23.8
60°-70°	967.8	19.9
70°-80°	393.6	8.1
80°-90°	74.9	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°	4868.0	100.0
0°-180°	4868.0	100.0



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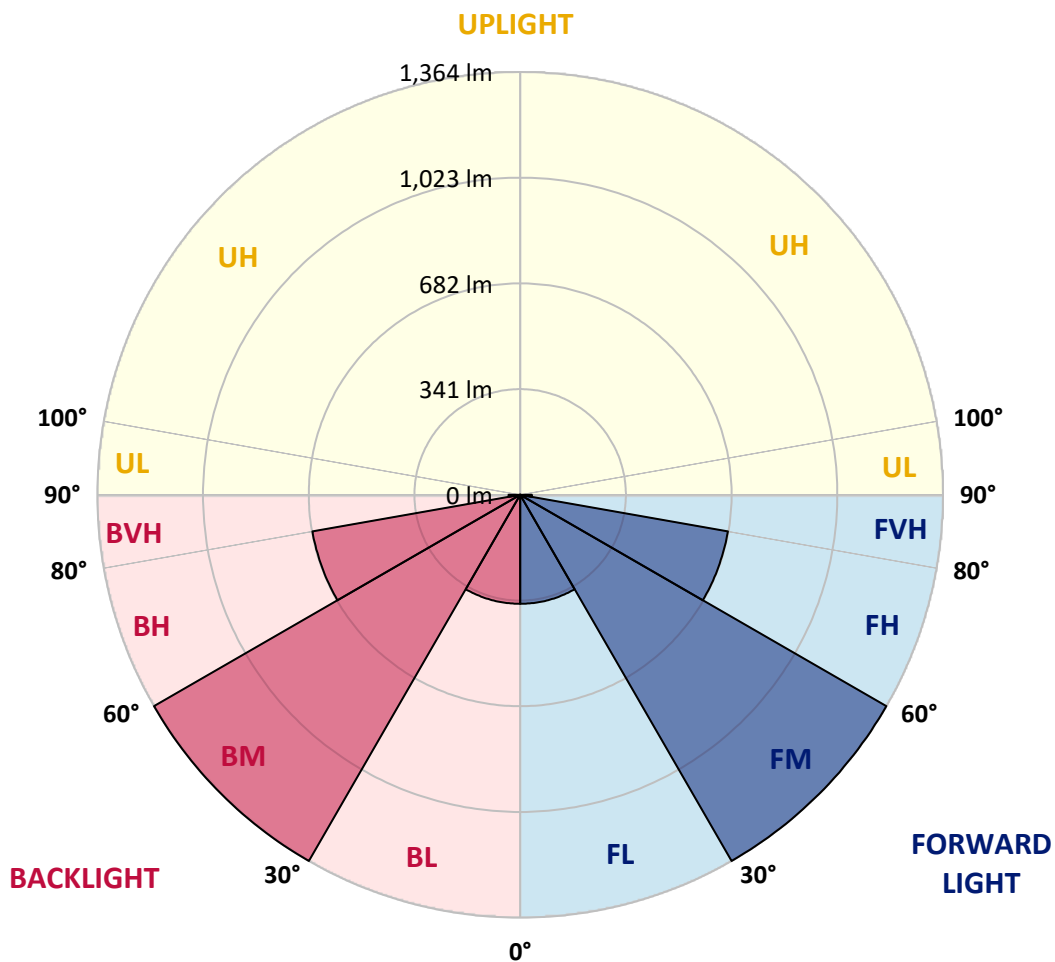
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.6	7.2			
FM	(30°-60°)	1364.2	28.0			
FH	(60°-80°)	680.7	14.0			G1/1800
FVH	(80°-90°)	37.5	0.8			G1/100
BL	(0°-30°)	351.6	7.2	B1/500		
BM	(30°-60°)	1364.2	28.0	B2/2500		
BH	(60°-80°)	680.7	14.0	B2/1000		G1/1800
BVH	(80°-90°)	37.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3
2.5°	732.2	731.9	732.2	731.7	731.7	731.6	731.4	730.9	731.2	731.6	731.3
5°	736.9	736.8	736.9	736.5	736.4	735.8	735.8	735.4	735.2	735.8	735.5
7.5°	744.4	744.4	744.7	744.4	744.3	743.7	743.1	743.0	742.9	743.1	742.7
10°	754.8	755.0	755.8	755.5	755.4	754.4	754.1	753.7	753.4	753.4	753.6
12.5°	768.2	768.8	768.6	769.3	769.6	769.3	768.2	766.7	766.8	765.7	765.7
15°	784.4	784.5	785.2	786.1	786.8	785.9	784.5	783.0	782.1	781.7	781.6
17.5°	802.6	803.4	803.8	805.1	806.8	807.6	804.7	802.1	800.3	798.8	798.9
20°	822.3	823.5	825.2	827.2	829.5	830.6	828.2	824.4	821.0	819.3	818.8
22.5°	844.8	845.2	847.8	851.6	855.1	856.5	854.2	849.9	846.2	844.0	843.8
25°	869.9	869.5	873.4	878.2	883.7	884.2	882.4	878.2	874.2	870.6	870.3
27.5°	895.4	895.5	900.4	906.2	913.0	916.2	914.2	910.7	904.8	900.3	899.9
30°	922.8	922.4	928.9	936.9	945.6	951.0	949.0	945.9	939.4	935.4	934.9
32.5°	949.6	951.6	958.0	969.2	979.9	987.7	988.2	985.5	978.7	974.7	973.0
35°	980.1	981.1	990.0	1004.5	1018.7	1028.6	1029.9	1028.0	1023.1	1017.0	1019.2
37.5°	1010.6	1010.8	1022.4	1041.4	1060.3	1071.8	1078.0	1076.5	1071.1	1066.9	1066.3
40°	1042.8	1044.4	1058.7	1080.3	1106.3	1126.0	1132.5	1132.5	1125.1	1121.1	1116.6
42.5°	1076.0	1077.0	1094.1	1123.1	1154.9	1178.7	1187.7	1187.2	1177.7	1168.8	1167.4
45°	1108.7	1110.0	1129.7	1166.3	1207.9	1237.3	1249.7	1244.8	1228.7	1215.6	1214.2
47.5°	1133.5	1137.3	1161.2	1209.0	1261.8	1297.3	1310.5	1298.0	1271.2	1253.8	1249.7
50°	1148.3	1152.8	1184.8	1245.6	1313.2	1357.3	1366.3	1341.6	1304.7	1279.0	1275.0
52.5°	1144.9	1150.3	1191.5	1270.0	1356.3	1409.5	1410.2	1372.9	1323.5	1289.5	1284.7
55°	1116.9	1123.1	1173.8	1272.2	1383.3	1447.1	1439.5	1387.8	1321.6	1279.0	1271.8
57°	1073.1	1081.4	1138.0	1249.8	1381.8	1459.4	1445.9	1380.2	1300.2	1247.9	1238.6
57.5°	1061.4	1069.1	1125.1	1241.7	1379.2	1459.2	1444.6	1376.0	1291.4	1236.9	1229.1
60°	974.4	985.8	1049.9	1174.9	1333.8	1436.3	1416.3	1328.0	1221.7	1154.5	1141.2
62.5°	871.8	881.4	945.1	1077.6	1240.4	1362.6	1345.4	1229.8	1106.5	1031.3	1021.5
65°	756.2	759.5	822.8	939.4	1104.2	1226.2	1213.6	1086.5	954.0	877.8	866.5
67.5°	619.1	630.3	685.4	796.8	943.0	1049.6	1035.5	902.0	787.6	710.7	706.4
70°	486.0	493.7	541.3	639.3	756.9	825.4	797.5	699.8	607.4	548.8	542.9
72.5°	347.0	362.9	410.4	486.8	574.3	609.1	576.7	525.6	449.8	414.7	409.1
75°	230.4	235.7	294.7	356.6	414.0	419.1	404.3	370.9	335.3	303.5	301.4
77.5°	157.0	161.9	208.3	262.2	288.0	292.4	273.2	263.8	246.4	210.0	199.4
80°	101.5	107.4	143.8	191.5	206.9	203.5	189.1	183.4	174.6	135.6	125.2
82.5°	66.2	69.1	95.1	129.3	140.1	128.4	117.2	126.0	120.8	84.2	80.1
85°	33.8	35.2	49.1	68.6	75.8	66.2	61.5	74.2	68.3	48.2	44.1
87.5°	7.9	8.9	12.7	17.9	19.3	18.6	18.7	24.6	22.7	17.2	15.8
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)