

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: P395135

Luminaire Tested: **LAS100S-T5-Switch-1**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395135
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: LAS100S-T5-Switch-1
Description: AREA SITE LARGE HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 1
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30959 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

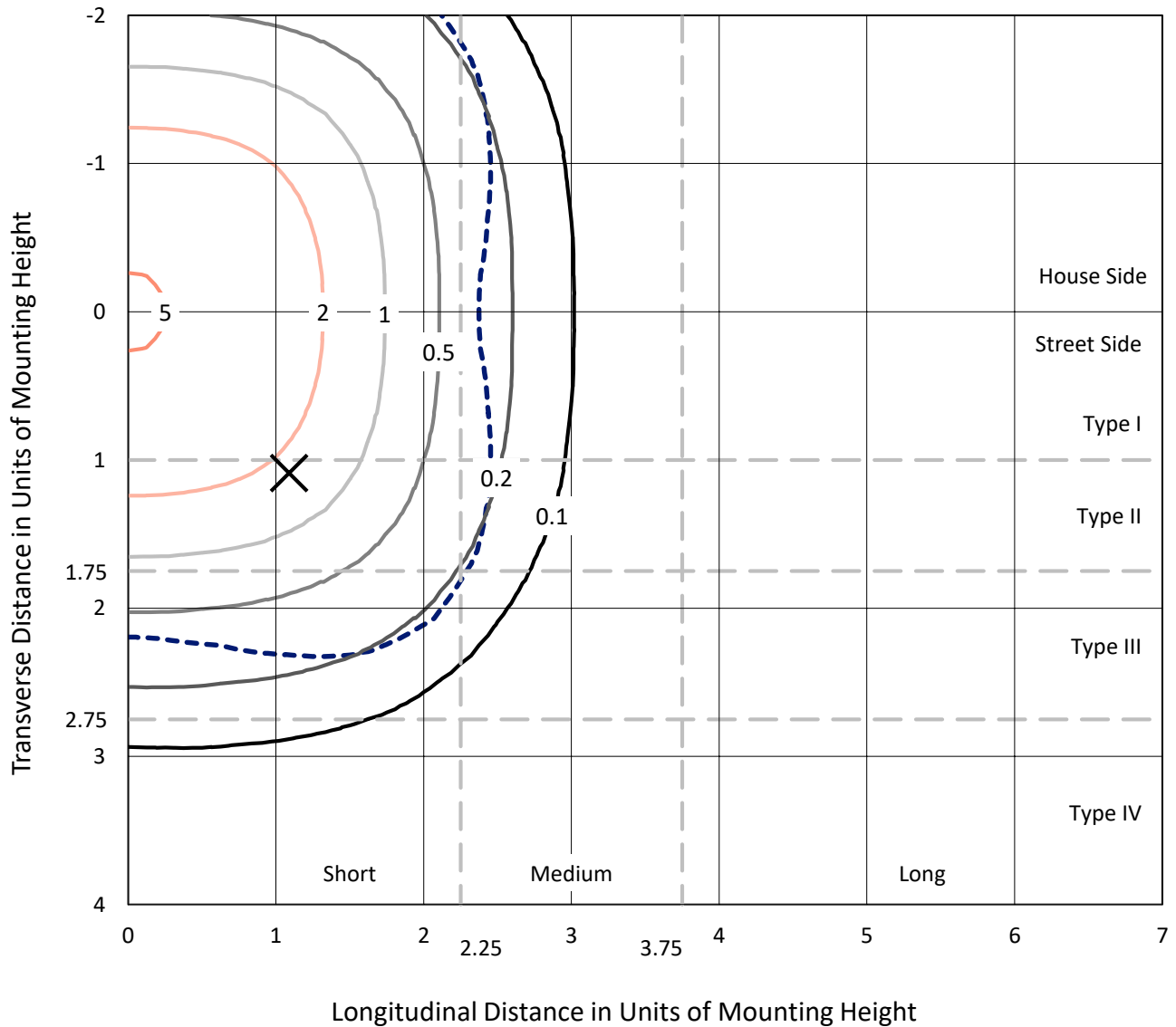
Input Watts (W): 222.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

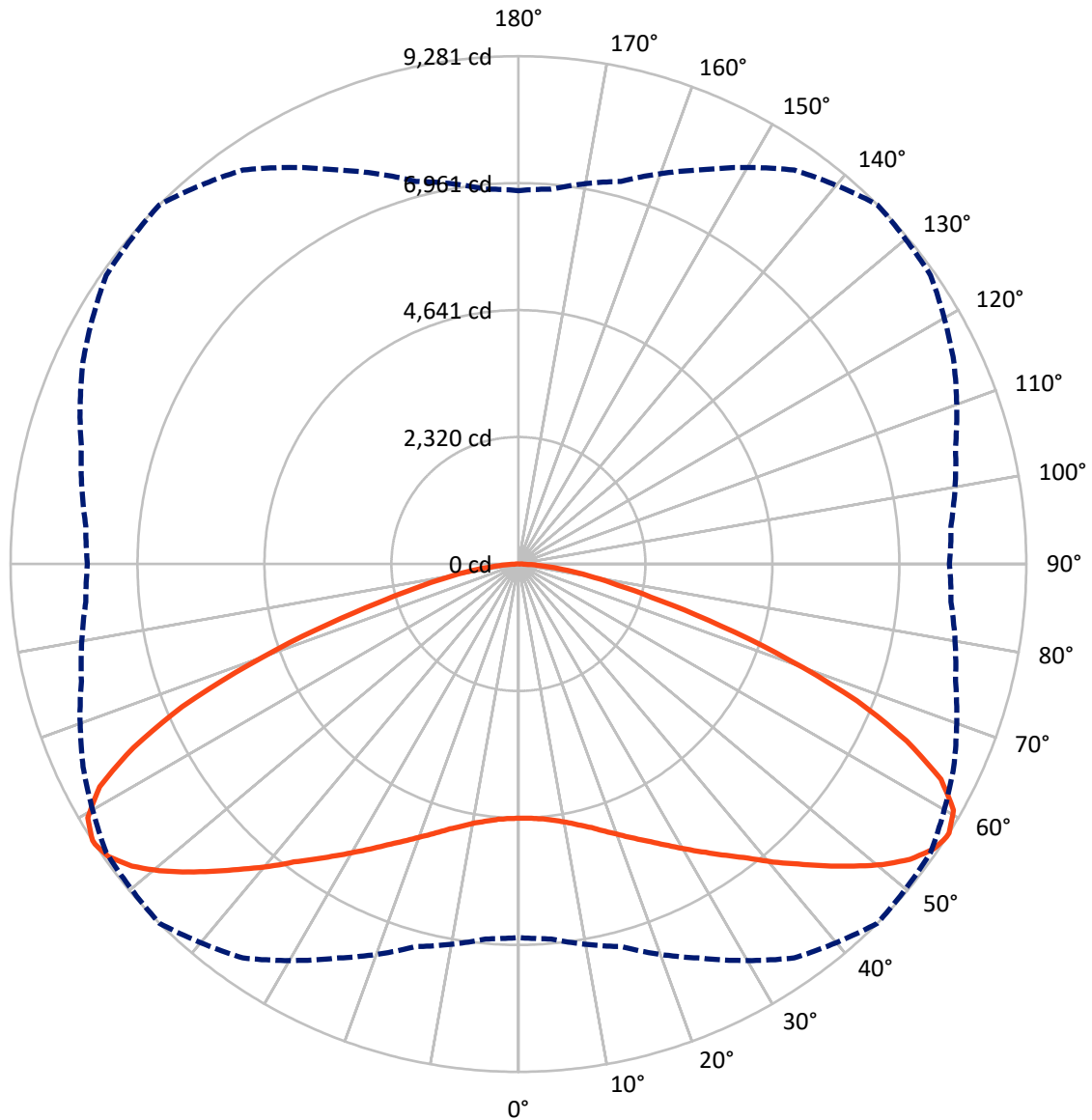
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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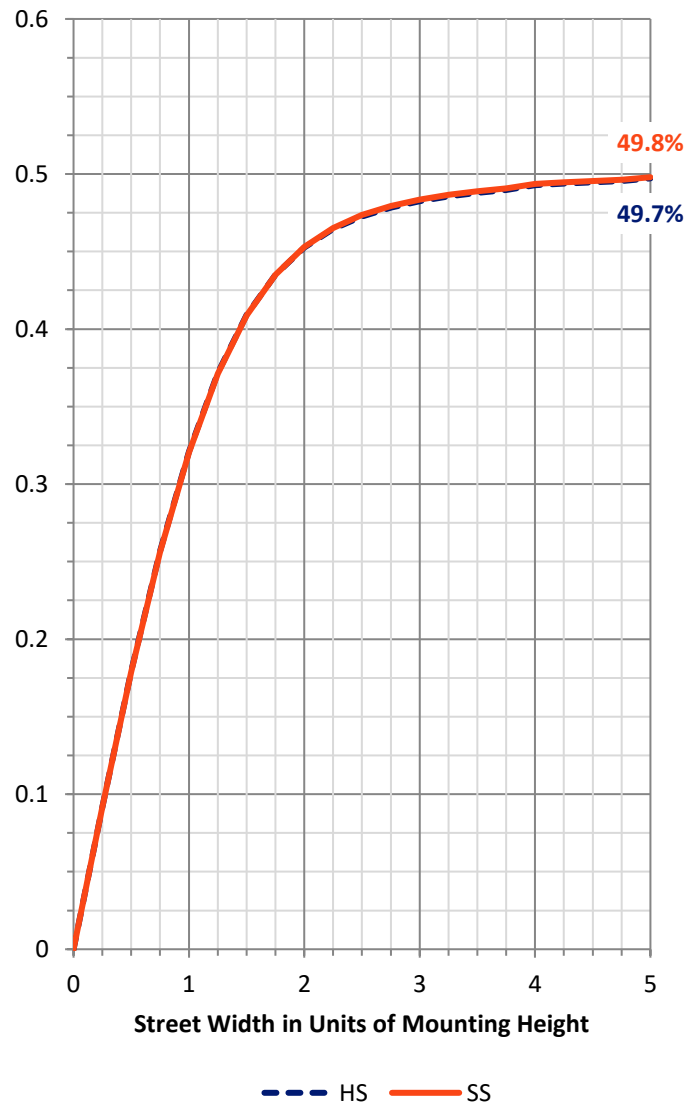
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15479.5	0.0	15479.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15479.5	0.0	15479.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30959.0	0.0	30959.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.6	1.5
10°-20°	1424.4	4.6
20°-30°	2597.6	8.4
30°-40°	4072.5	13.2
40°-50°	5904.9	19.1
50°-60°	7374.4	23.8
60°-70°	6154.9	19.9
70°-80°	2503.2	8.1
80°-90°	476.5	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°	30959.0	100.0
0°-180°	30959.0	100.0



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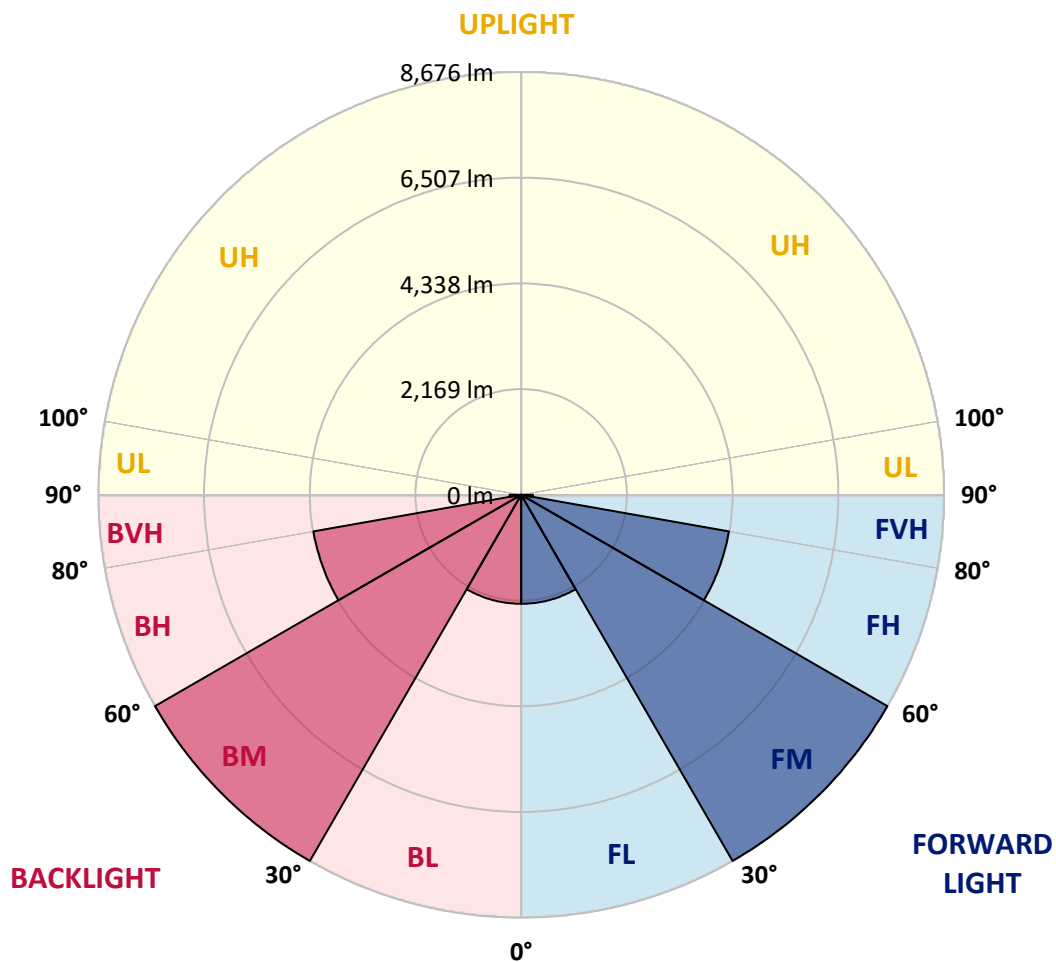
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2236.3	7.2			
FM	(30°-60°)	8675.9	28.0			
FH	(60°-80°)	4329.1	14.0			G2/5000
FVH	(80°-90°)	238.3	0.8			G3/500
BL	(0°-30°)	2236.3	7.2	B3/2500		
BM	(30°-60°)	8675.9	28.0	B5		
BH	(60°-80°)	4329.1	14.0	B4/5000		G2/5000
BVH	(80°-90°)	238.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6	4644.6
2.5°	4656.3	4654.5	4656.3	4653.6	4653.6	4652.7	4651.8	4648.2	4650.0	4652.7	4650.9
5°	4686.7	4685.8	4686.7	4684.0	4683.1	4679.5	4679.5	4676.9	4676.0	4679.5	4677.7
7.5°	4734.2	4734.2	4736.0	4734.2	4733.3	4729.7	4726.1	4725.2	4724.3	4726.1	4723.4
10°	4800.4	4801.3	4806.7	4804.9	4804.0	4797.8	4796.0	4793.3	4791.5	4791.5	4792.4
12.5°	4885.5	4889.1	4888.2	4892.7	4894.5	4892.7	4885.5	4875.7	4876.6	4869.4	4869.4
15°	4988.5	4989.4	4993.9	4999.3	5003.7	4998.4	4989.4	4979.6	4974.2	4971.5	4970.6
17.5°	5104.1	5109.4	5112.1	5120.2	5130.9	5136.3	5117.5	5101.4	5089.7	5079.9	5080.8
20°	5229.4	5237.5	5248.2	5260.8	5275.1	5282.3	5267.1	5242.9	5221.4	5210.6	5207.1
22.5°	5372.7	5375.4	5391.5	5415.7	5438.1	5447.1	5432.7	5405.0	5381.7	5367.4	5366.5
25°	5532.2	5529.5	5554.5	5585.0	5619.9	5623.5	5611.9	5585.0	5559.9	5536.6	5534.8
27.5°	5694.3	5695.2	5726.5	5763.2	5806.2	5826.8	5814.3	5791.9	5754.3	5725.6	5722.9
30°	5868.9	5866.2	5907.4	5958.5	6014.0	6048.0	6035.5	6015.8	5974.6	5948.6	5945.9
32.5°	6039.1	6051.6	6092.8	6163.6	6231.6	6281.8	6284.5	6267.4	6224.5	6198.5	6187.7
35°	6233.4	6239.7	6296.1	6388.4	6478.8	6541.5	6549.6	6537.9	6506.6	6468.1	6481.5
37.5°	6426.9	6428.7	6502.1	6623.0	6743.0	6816.5	6855.9	6846.0	6812.0	6785.1	6781.5
40°	6632.0	6641.8	6733.2	6870.2	7035.9	7161.3	7202.5	7202.5	7155.0	7129.9	7101.3
42.5°	6843.3	6849.6	6958.0	7142.5	7344.9	7496.2	7553.5	7550.0	7490.0	7433.5	7424.6
45°	7051.1	7059.2	7184.5	7417.4	7681.6	7868.8	7947.6	7916.3	7814.2	7730.9	7721.9
47.5°	7208.7	7232.9	7385.2	7688.8	8024.6	8250.3	8334.5	8254.8	8084.6	7973.6	7947.6
50°	7302.8	7331.4	7534.7	7921.6	8351.5	8631.8	8689.2	8532.4	8297.8	8133.9	8108.8
52.5°	7281.3	7315.3	7577.7	8076.6	8625.6	8964.1	8968.6	8731.3	8416.9	8201.1	8170.6
55°	7103.0	7142.5	7464.9	8090.9	8797.5	9203.2	9154.9	8826.2	8405.3	8133.9	8088.2
57°	6824.5	6877.4	7237.4	7948.5	8787.7	9281.2	9195.2	8777.8	8269.1	7936.0	7876.9
57.5°	6750.2	6799.4	7155.0	7896.6	8771.6	9280.3	9187.1	8751.0	8212.7	7866.1	7816.8
60°	6196.7	6269.2	6676.7	7472.0	8482.3	9134.3	9007.1	8445.6	7769.4	7342.2	7258.0
62.5°	5544.7	5605.6	6010.4	6853.2	7888.5	8665.9	8556.6	7821.3	7036.8	6558.5	6496.7
65°	4809.4	4830.0	5233.0	5974.6	7022.4	7798.0	7718.3	6909.6	6066.8	5582.3	5510.7
67.5°	3937.1	4008.7	4358.9	5067.3	5997.0	6674.9	6585.4	5736.4	5009.1	4520.1	4492.4
70°	3090.7	3140.0	3442.7	4066.1	4813.9	5249.1	5071.8	4450.3	3862.7	3490.2	3452.6
72.5°	2206.8	2308.0	2609.8	3096.1	3652.3	3873.5	3667.5	3342.4	2860.6	2637.6	2601.7
75°	1465.2	1499.2	1874.5	2267.7	2633.1	2665.3	2571.3	2359.0	2132.4	1930.0	1916.6
77.5°	998.6	1029.9	1324.6	1667.6	1831.5	1859.3	1737.5	1677.5	1567.3	1335.3	1268.2
80°	645.7	683.3	914.4	1218.0	1315.6	1294.2	1202.8	1166.1	1110.6	862.5	796.2
82.5°	420.9	439.7	604.5	822.2	891.1	816.8	745.1	801.6	768.4	535.6	509.6
85°	214.9	223.9	312.6	436.2	481.8	420.9	391.4	472.0	434.4	306.3	280.3
87.5°	50.2	56.4	80.6	113.7	122.7	118.2	119.1	156.7	144.2	109.3	100.3
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)