

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: P395139

Luminaire Tested: **LAS100S-T5-Switch-5**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395139
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-5
Description: AREA SITE LARGE HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 5
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20294 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

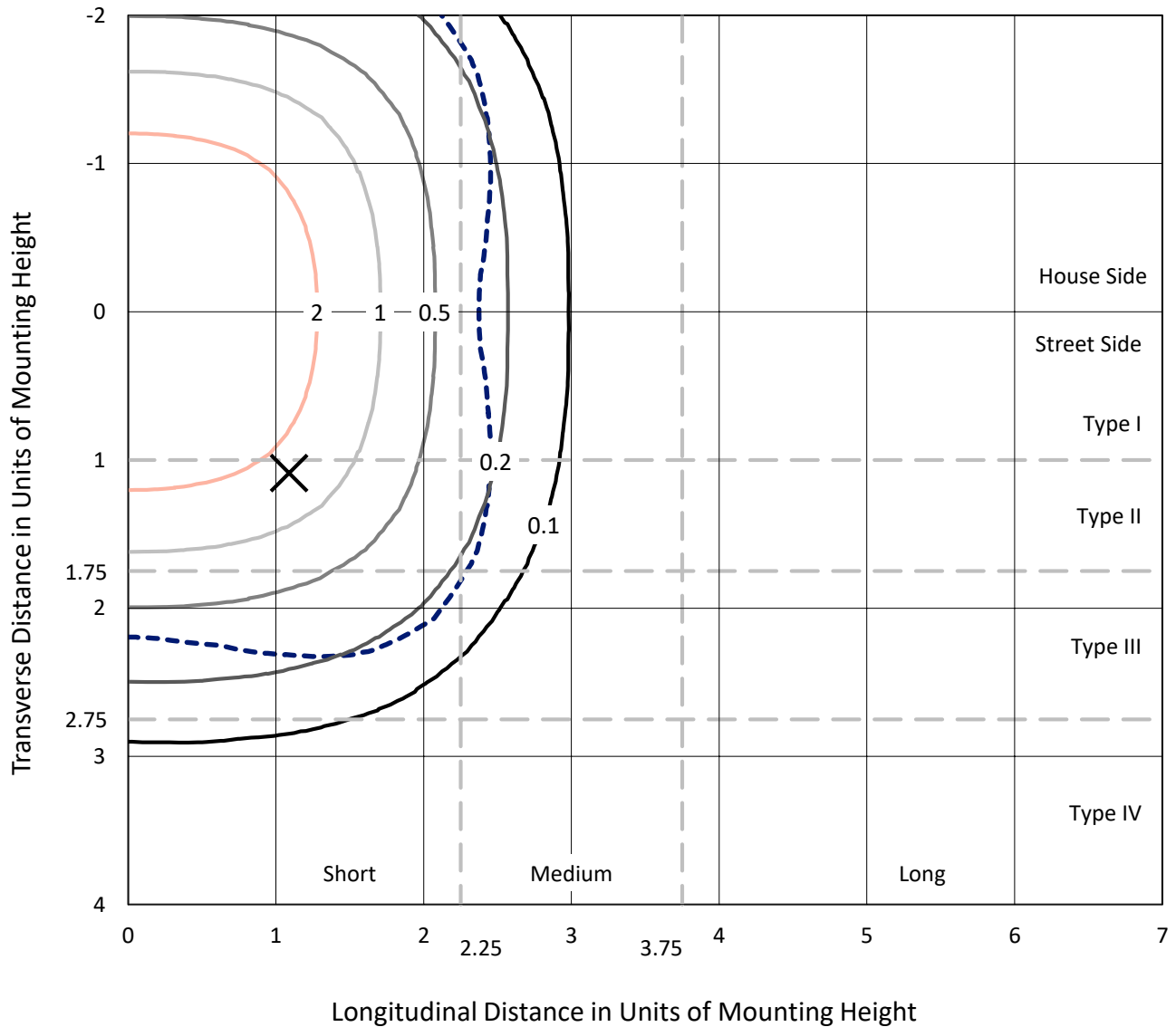
Input Watts (W): 129.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

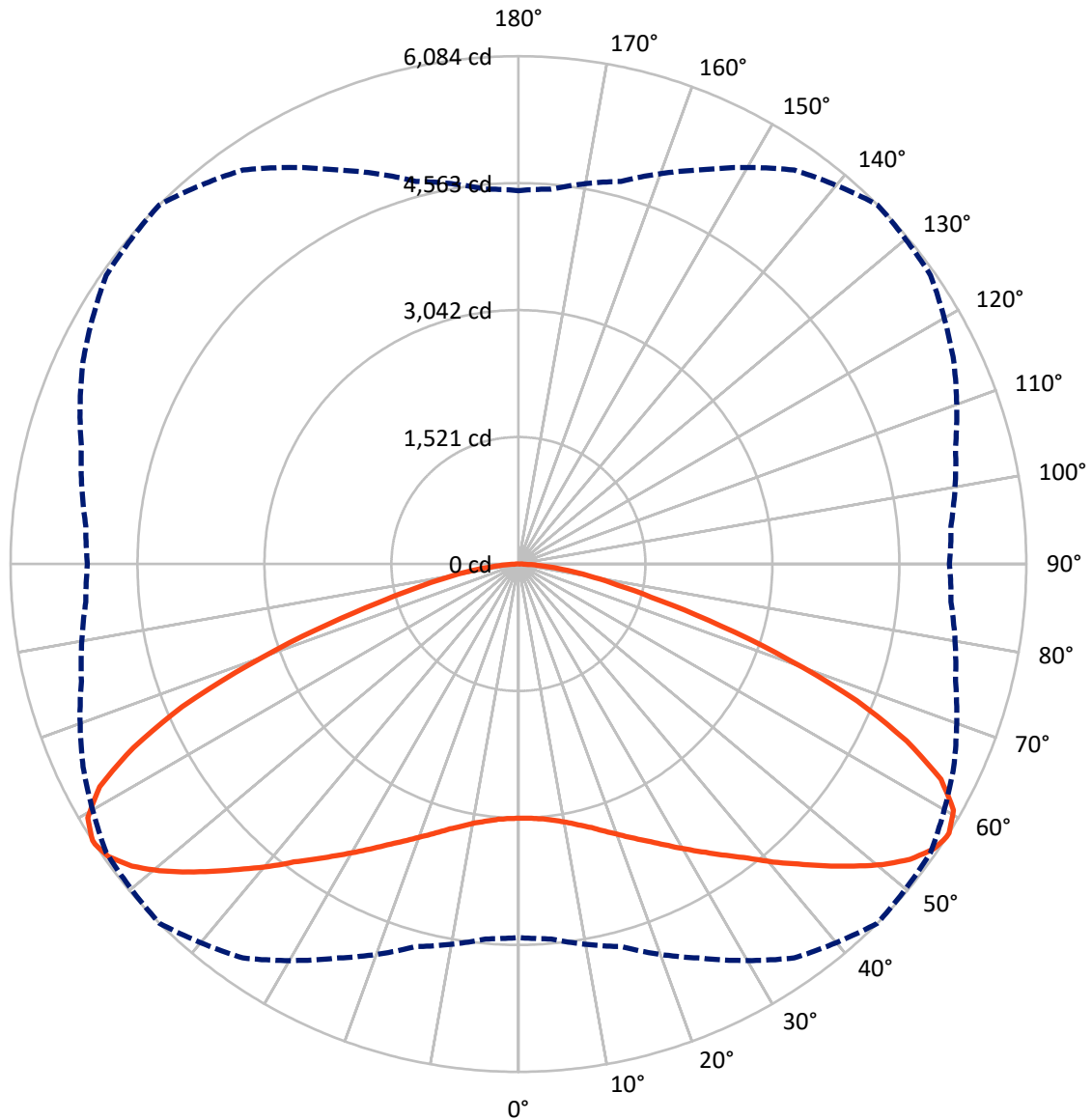
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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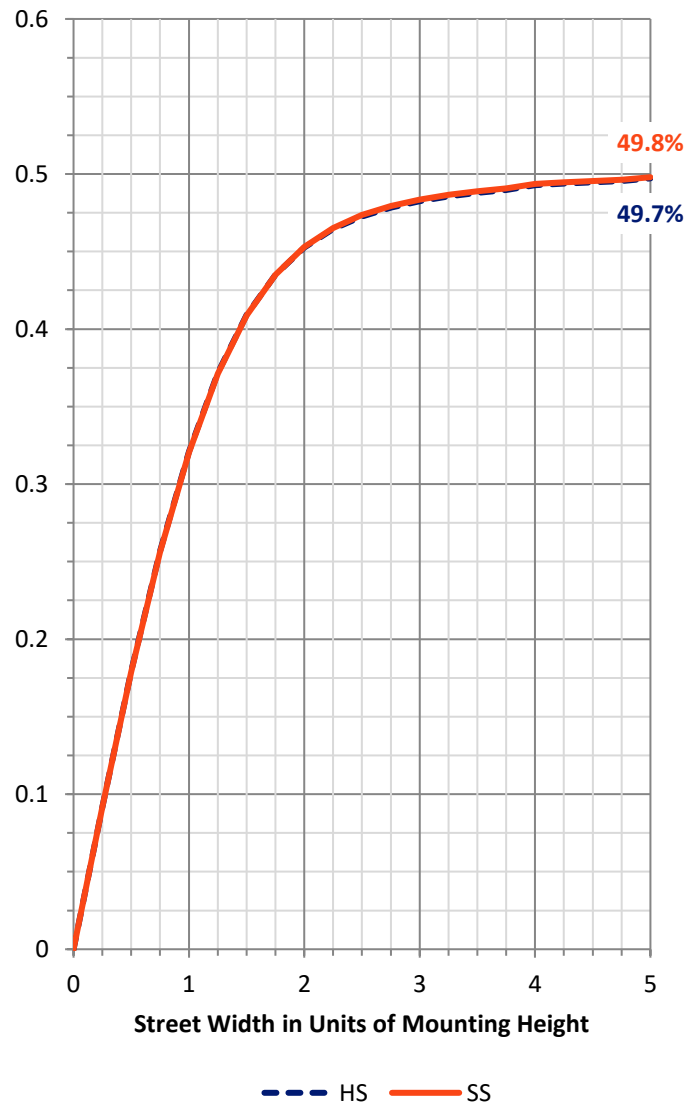
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10147.0	0.0	10147.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10147.0	0.0	10147.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20294.0	0.0	20294.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	1.5
10°-20°	933.7	4.6
20°-30°	1702.7	8.4
30°-40°	2669.6	13.2
40°-50°	3870.7	19.1
50°-60°	4834.0	23.8
60°-70°	4034.6	19.9
70°-80°	1640.9	8.1
80°-90°	312.4	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°	20294.0	100.0
0°-180°	20294.0	100.0



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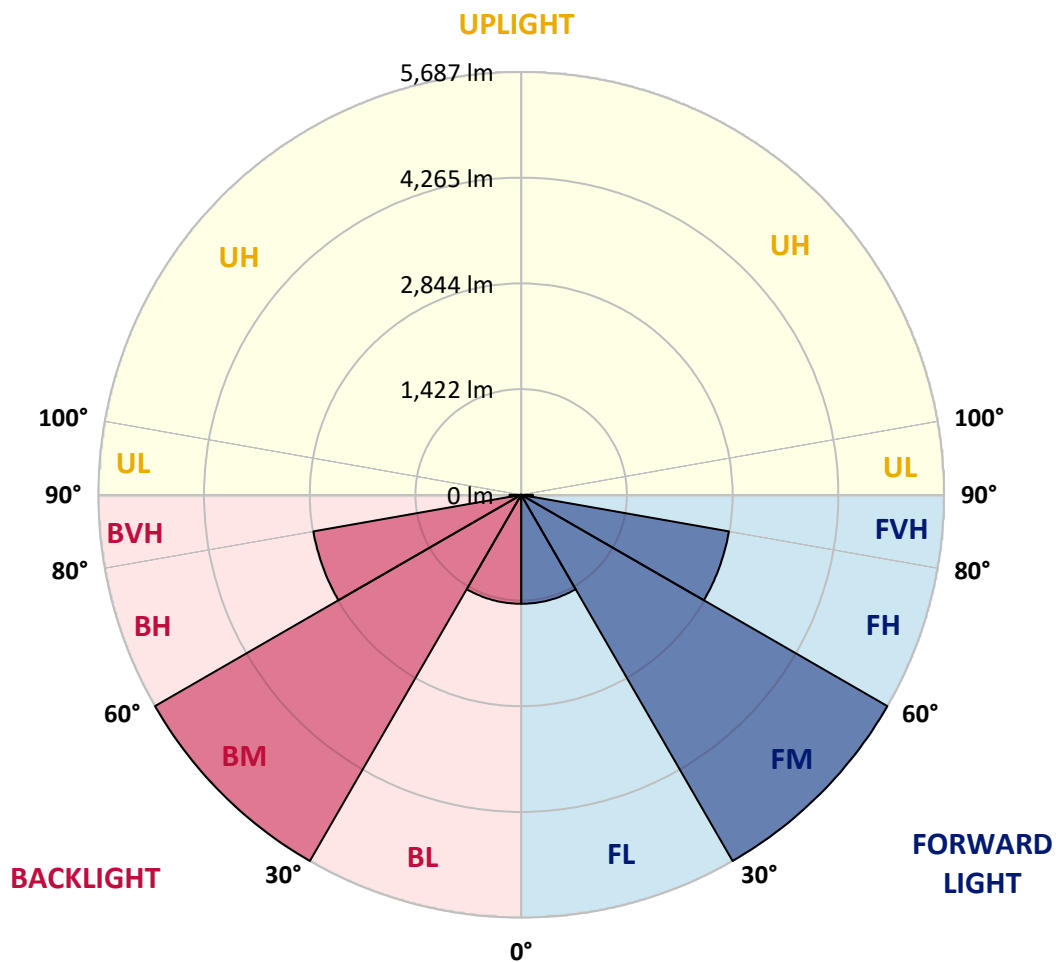
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1465.9	7.2			
FM	(30°-60°)	5687.1	28.0			
FH	(60°-80°)	2837.8	14.0			G2/5000
FVH	(80°-90°)	156.2	0.8			G2/225
BL	(0°-30°)	1465.9	7.2	B3/2500		
BM	(30°-60°)	5687.1	28.0	B4/8500		
BH	(60°-80°)	2837.8	14.0	B4/5000		G2/5000
BVH	(80°-90°)	156.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6	3044.6
2.5°	3052.2	3051.1	3052.2	3050.5	3050.5	3049.9	3049.3	3046.9	3048.1	3049.9	3048.7
5°	3072.2	3071.6	3072.2	3070.4	3069.8	3067.5	3067.5	3065.7	3065.1	3067.5	3066.3
7.5°	3103.3	3103.3	3104.5	3103.3	3102.7	3100.4	3098.0	3097.4	3096.8	3098.0	3096.3
10°	3146.8	3147.3	3150.9	3149.7	3149.1	3145.0	3143.8	3142.1	3140.9	3140.9	3141.5
12.5°	3202.5	3204.9	3204.3	3207.2	3208.4	3207.2	3202.5	3196.1	3196.7	3192.0	3192.0
15°	3270.0	3270.6	3273.6	3277.1	3280.0	3276.5	3270.6	3264.2	3260.6	3258.9	3258.3
17.5°	3345.8	3349.3	3351.1	3356.3	3363.4	3366.9	3354.6	3344.0	3336.4	3329.9	3330.5
20°	3428.0	3433.2	3440.3	3448.5	3457.9	3462.6	3452.6	3436.8	3422.7	3415.6	3413.3
22.5°	3521.9	3523.7	3534.2	3550.1	3564.8	3570.6	3561.2	3543.0	3527.8	3518.4	3517.8
25°	3626.4	3624.6	3641.1	3661.0	3683.9	3686.3	3678.6	3661.0	3644.6	3629.3	3628.2
27.5°	3732.7	3733.2	3753.8	3777.9	3806.0	3819.5	3811.3	3796.6	3772.0	3753.2	3751.4
30°	3847.1	3845.4	3872.4	3905.8	3942.2	3964.6	3956.3	3943.4	3916.4	3899.4	3897.6
32.5°	3958.7	3966.9	3993.9	4040.3	4084.9	4117.8	4119.5	4108.4	4080.2	4063.2	4056.1
35°	4086.1	4090.2	4127.2	4187.6	4246.9	4288.0	4293.3	4285.7	4265.1	4239.9	4248.7
37.5°	4212.9	4214.1	4262.2	4341.5	4420.1	4468.3	4494.1	4487.6	4465.3	4447.7	4445.4
40°	4347.3	4353.8	4413.7	4503.5	4612.1	4694.3	4721.3	4721.3	4690.2	4673.7	4655.0
42.5°	4485.9	4490.0	4561.0	4682.0	4814.6	4913.9	4951.4	4949.1	4909.8	4872.8	4866.9
45°	4622.1	4627.4	4709.6	4862.2	5035.4	5158.1	5209.8	5189.2	5122.3	5067.7	5061.8
47.5°	4725.4	4741.3	4841.1	5040.1	5260.2	5408.2	5463.4	5411.1	5299.6	5226.8	5209.8
50°	4787.1	4805.8	4939.1	5192.7	5474.5	5658.3	5695.9	5593.1	5439.3	5331.9	5315.4
52.5°	4773.0	4795.3	4967.3	5294.3	5654.2	5876.1	5879.0	5723.4	5517.4	5375.9	5355.9
55°	4656.1	4682.0	4893.3	5303.7	5766.9	6032.8	6001.1	5785.7	5509.7	5331.9	5301.9
57°	4473.6	4508.2	4744.2	5210.3	5760.4	6083.9	6027.6	5754.0	5420.5	5202.1	5163.4
57.5°	4424.8	4457.1	4690.2	5176.3	5749.9	6083.3	6022.3	5736.4	5383.5	5156.3	5124.0
60°	4062.0	4109.6	4376.7	4898.0	5560.2	5987.6	5904.3	5536.2	5092.9	4812.9	4757.7
62.5°	3634.6	3674.5	3939.9	4492.3	5171.0	5680.6	5609.0	5127.0	4612.7	4299.2	4258.7
65°	3152.6	3166.1	3430.3	3916.4	4603.3	5111.7	5059.5	4529.3	3976.9	3659.3	3612.3
67.5°	2580.8	2627.8	2857.3	3321.7	3931.1	4375.5	4316.8	3760.3	3283.5	2963.0	2944.8
70°	2026.0	2058.3	2256.7	2665.3	3155.6	3440.9	3324.6	2917.2	2532.1	2287.9	2263.2
72.5°	1446.6	1512.9	1710.8	2029.5	2394.1	2539.1	2404.1	2191.0	1875.1	1729.0	1705.5
75°	960.5	982.8	1228.8	1486.5	1726.0	1747.2	1685.5	1546.4	1397.8	1265.2	1256.4
77.5°	654.6	675.1	868.3	1093.1	1200.6	1218.8	1138.9	1099.6	1027.4	875.3	831.3
80°	423.3	447.9	599.4	798.4	862.4	848.3	788.4	764.4	728.0	565.4	521.9
82.5°	275.9	288.3	396.3	538.9	584.1	535.4	488.5	525.4	503.7	351.1	334.0
85°	140.9	146.8	204.9	285.9	315.8	275.9	256.6	309.4	284.7	200.8	183.8
87.5°	32.9	37.0	52.8	74.6	80.4	77.5	78.1	102.7	94.5	71.6	65.8
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)