

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: G3-2010-983-9

Luminaire Tested: **CLCS40S-90W-5000K**

Test Date: 10/17/2020

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: G3-2010-983-9
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 10/17/2020
Issue Date: 10/17/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCS40S-90W-5000K
Description: SELECTABLE CANOPY, 90W, 5000K
Light Source: -
Ballast/Driver: -
SS-150VA-56B

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13605 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.12')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

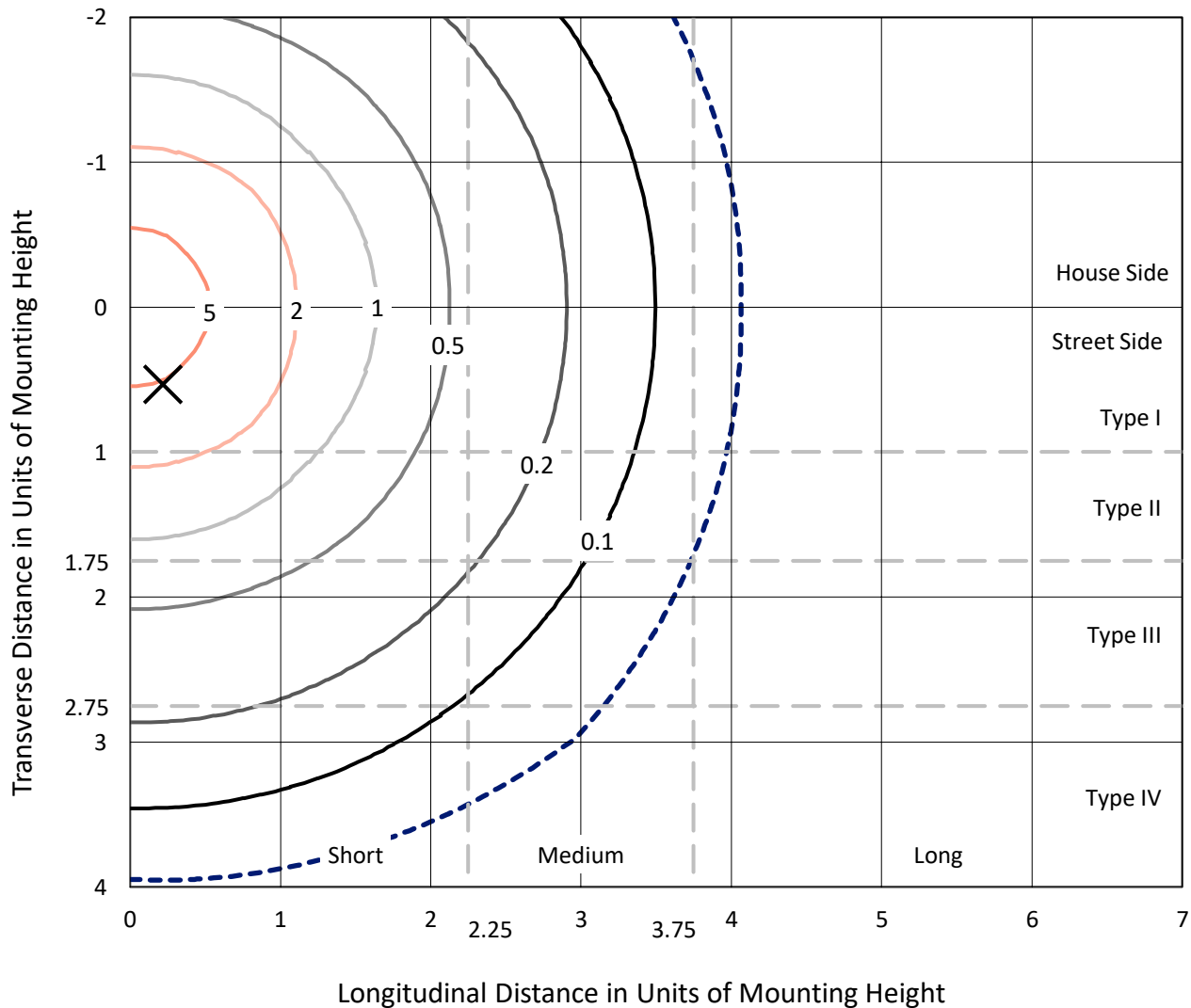
Input Watts (W): 91.2
Input Voltage (V): 120.0
Input Current (Ain): 0.765
Voltage Rise (V): NR
Power Factor: 0.9944
Total Harmonic Distortion (THDi): 4.57%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.2
Test Distance: 24 FT



REPORT NUMBER: G3-2010-983-9
 CATALOG NUMBER: CLCS40S-90W-5000K

Iso-Footcandle Lines of Horizontal Illumination

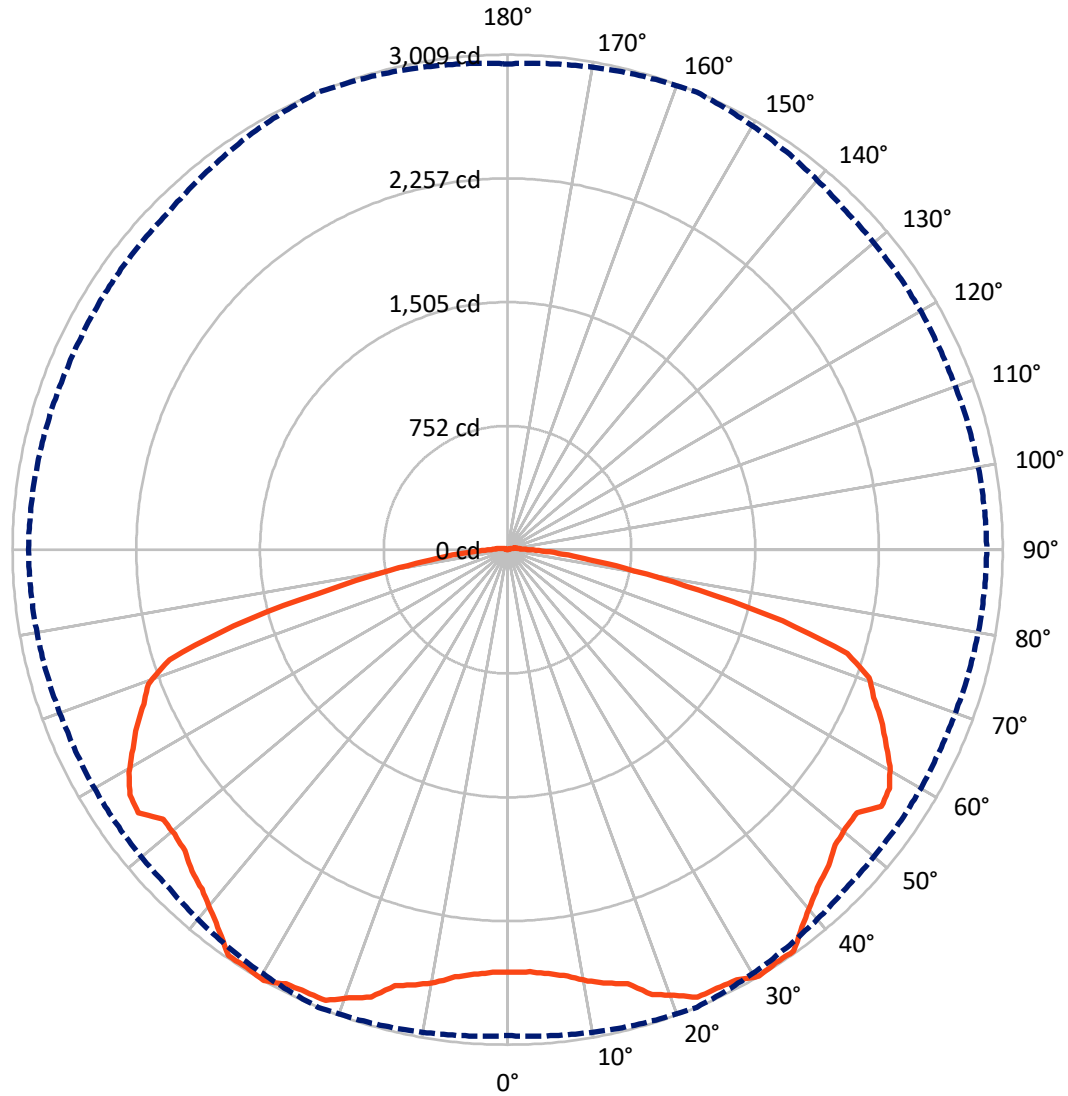
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

REPORT NUMBER: G3-2010-983-9
CATALOG NUMBER: CLCS40S-90W-5000K

Luminous Intensity Polar Plot



— Vertical Plane Through 22.5-Deg Lateral - - - Horizontal Cone Through 30-Deg Vertical

REPORT NUMBER: G3-2010-983-9
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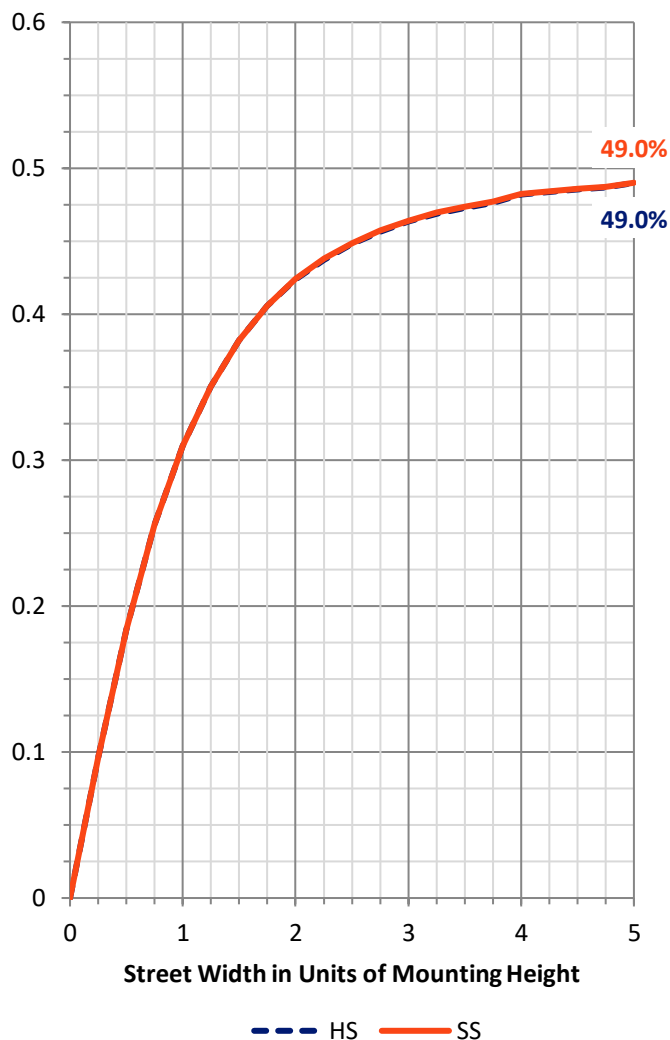
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6738.0	64.5	6802.5
	% Fixture	49.5	0.5	50.0
Street Side	Lumens	6738.0	64.5	6802.5
	% Fixture	49.5	0.5	50.0
Total	Lumens	13475.9	129.1	13605.0
	% Fixture	99.1	0.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	1.8
10°-20°	776.8	5.7
20°-30°	1342.6	9.9
30°-40°	1826.0	13.4
40°-50°	2135.3	15.7
50°-60°	2425.7	17.8
60°-70°	2537.7	18.7
70°-80°	1772.9	13.0
80°-90°	410.4	3.0
90°-100°	80.0	0.6
100°-110°	36.9	0.3
110°-120°	10.3	0.1
120°-130°	1.7	0.0
130°-140°	0.1	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°	13475.9	99.1
0°-180°	13605.0	100.0

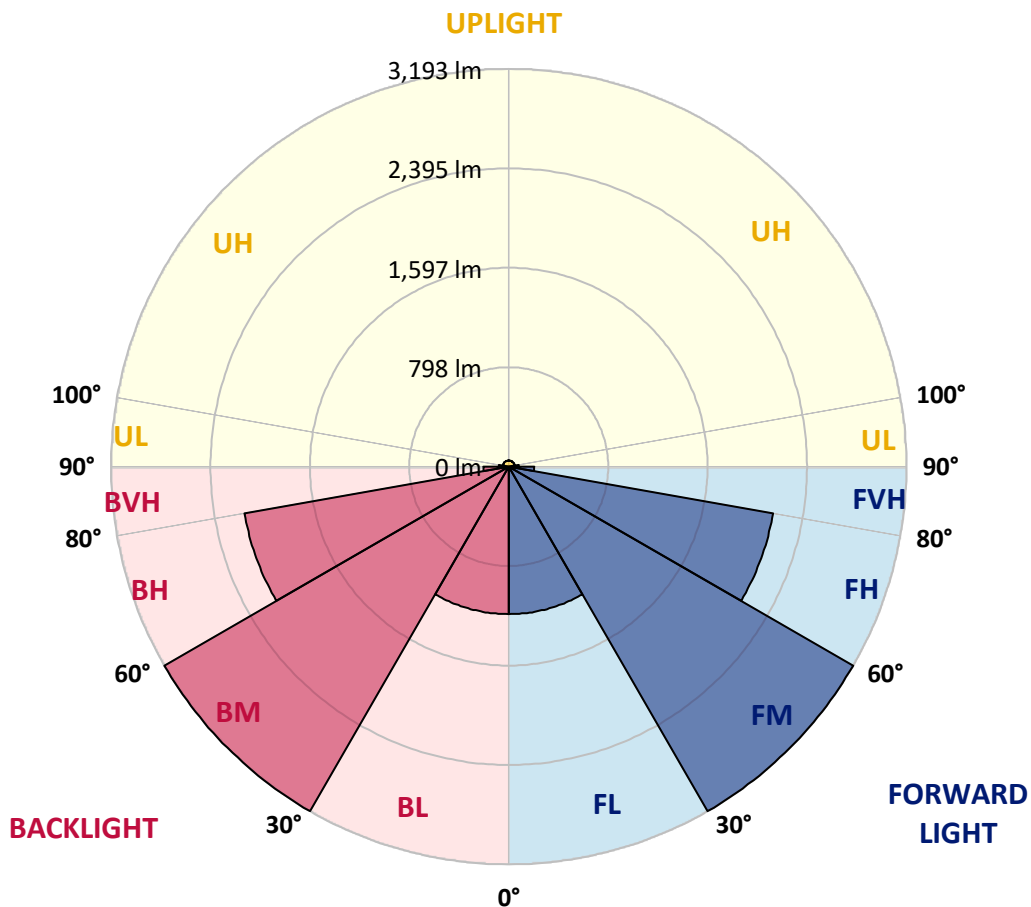


REPORT NUMBER: G3-2010-983-9
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.0	8.7			
FM (30°-60°)	3193.5	23.5			
FH (60°-80°)	2155.3	15.8			G2/5000
FVH (80°-90°)	205.2	1.5			G2/225
BL (0°-30°)	1184.0	8.7	B3/2500		
BM (30°-60°)	3193.5	23.5	B3/5000		
BH (60°-80°)	2155.3	15.8	B3/2500		G2/5000
BVH (80°-90°)	205.2	1.5			G2/225
UL (90°-100°)	80.0	0.6		U3/500	
UH (100°-180°)	49.1	0.4		U2/50	

BUG Rating: B3-U3-G2
 Type V Short





REPORT NUMBER: G3-2010-983-9

CATALOG NUMBER: CLCS40S-90W-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566	2566	2566	2566	2566
2.5°	2569	2569	2569	2570	2570
5°	2582	2589	2587	2584	2580
7.5°	2602	2616	2607	2601	2612
10°	2645	2665	2641	2640	2633
12.5°	2697	2704	2663	2674	2663
15°	2798	2736	2702	2713	2709
17.5°	2864	2842	2732	2736	2758
20°	2942	2890	2771	2772	2802
22.5°	2967	2954	2837	2830	2863
25°	2983	2953	2852	2879	2895
27.5°	2966	2962	2880	2902	2910
30°	2953	3009	2908	2895	2912
32.5°	2928	2993	2922	2903	2904
35°	2907	2995	2886	2915	2882
37.5°	2863	2907	2902	2884	2824
40°	2791	2836	2936	2832	2811
42.5°	2774	2776	2873	2795	2768
45°	2688	2738	2829	2752	2734
47.5°	2623	2680	2811	2724	2637
50°	2629	2662	2785	2648	2623
52.5°	2771	2657	2731	2665	2589
55°	2781	2756	2674	2633	2693
57.5°	2716	2736	2657	2712	2929
60°	2605	2671	2676	2847	2728
62.5°	2522	2578	2674	2701	2614
65°	2442	2498	2649	2644	2588
67.5°	2361	2401	2551	2561	2481
70°	2297	2331	2378	2433	2403
72.5°	2095	2161	2144	2192	2185
75°	1663	1727	1769	1770	1753
77.5°	1128	1188	1343	1255	1204
80°	710	778	872	801	797
82.5°	488	506	548	525	526
85°	329	336	325	333	343
87.5°	203	206	183	194	197
90°	120	121	108	114	115
92.5°	92	83	70	79	86
95°	79	69	54	66	75
97.5°	75	64	48	63	73
100°	64	54	39	55	65
102.5°	54	45	30	46	56
105°	44	34	21	36	45
107.5°	33	26	15	27	34
110°	26	19	10	19	27



REPORT NUMBER: G3-2010-983-9
CATALOG NUMBER: CLCS40S-90W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19	14	7	14	20
115°	14	10	4	10	14
117.5°	10	7	1	7	10
120°	7	6	1	5	7
122.5°	5	2	1	2	5
125°	2	1	1	1	2
127.5°	1	1	1	1	1
130°	1	1	1	1	1
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)