

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: G3-2010-983-7

Luminaire Tested: **CLCS40S-90W-3000K**

Test Date: 10/17/2020

Test Information

Test Method: LM-79-08
Report Number: G3-2010-983-7
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-3000K
Description: SELECTABLE CANOPY, 90W, 3000K
Light Source: -
Ballast/Driver: -
SS-150VA-56B

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12613.7 lumens
Efficiency: N/A
Efficacy: 138.3 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

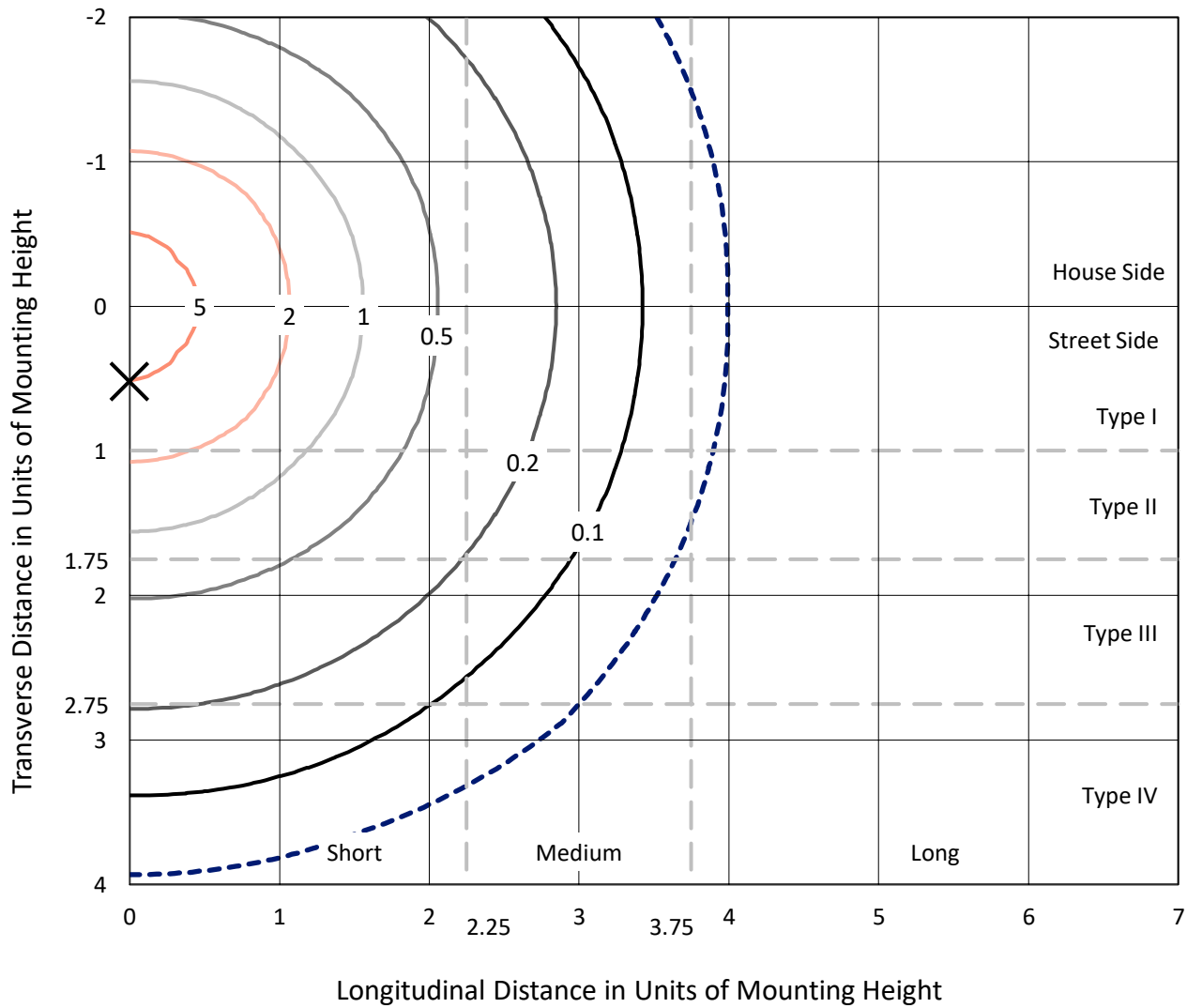
Input Watts (W): 91.2
Input Voltage (V): 120.0
Input Current (Ain): 0.764
Voltage Rise (V): NR
Power Factor: 0.9943
Total Harmonic Distortion (THDi): 4.51%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

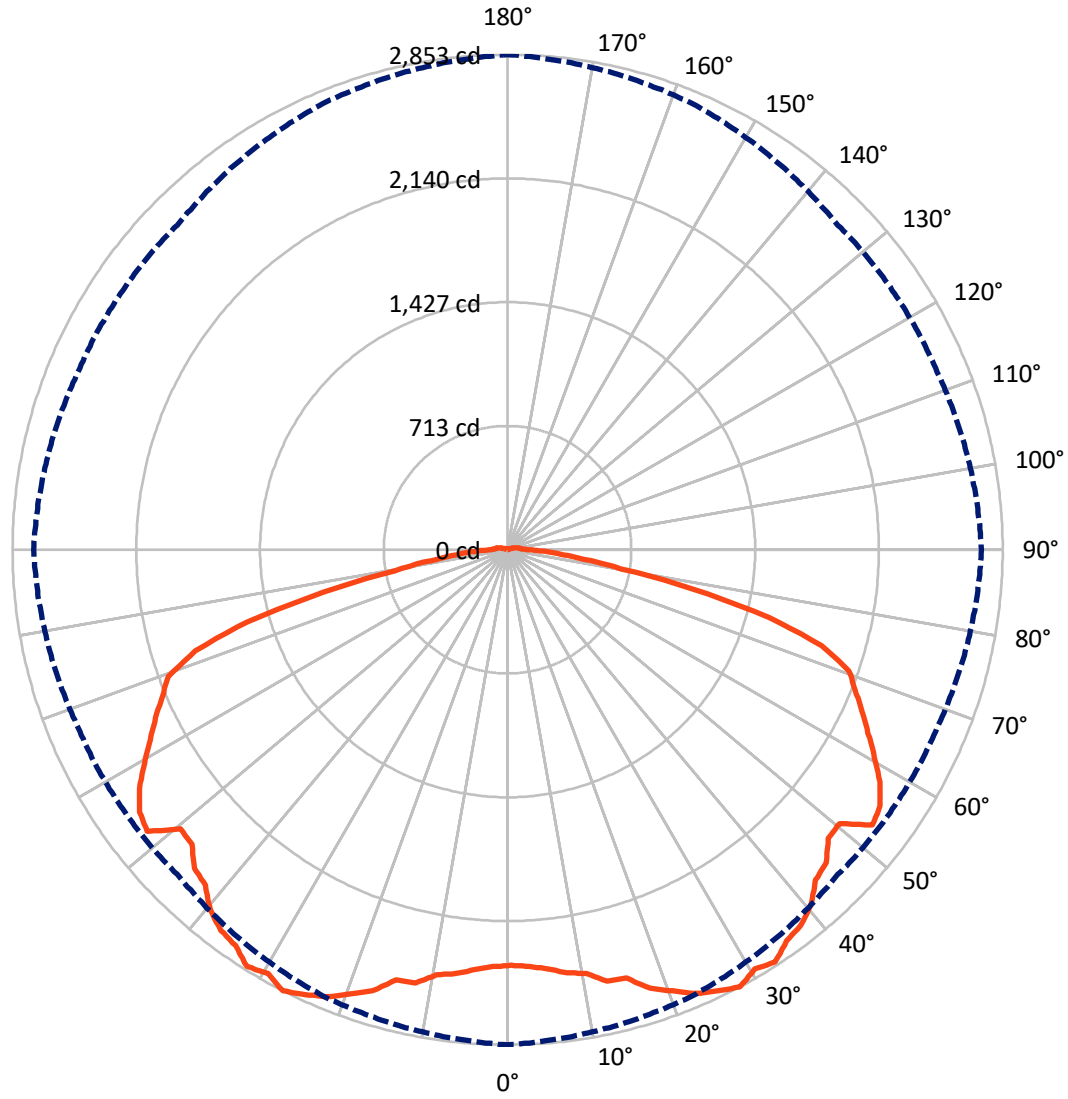
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 27.5-Deg Vertical

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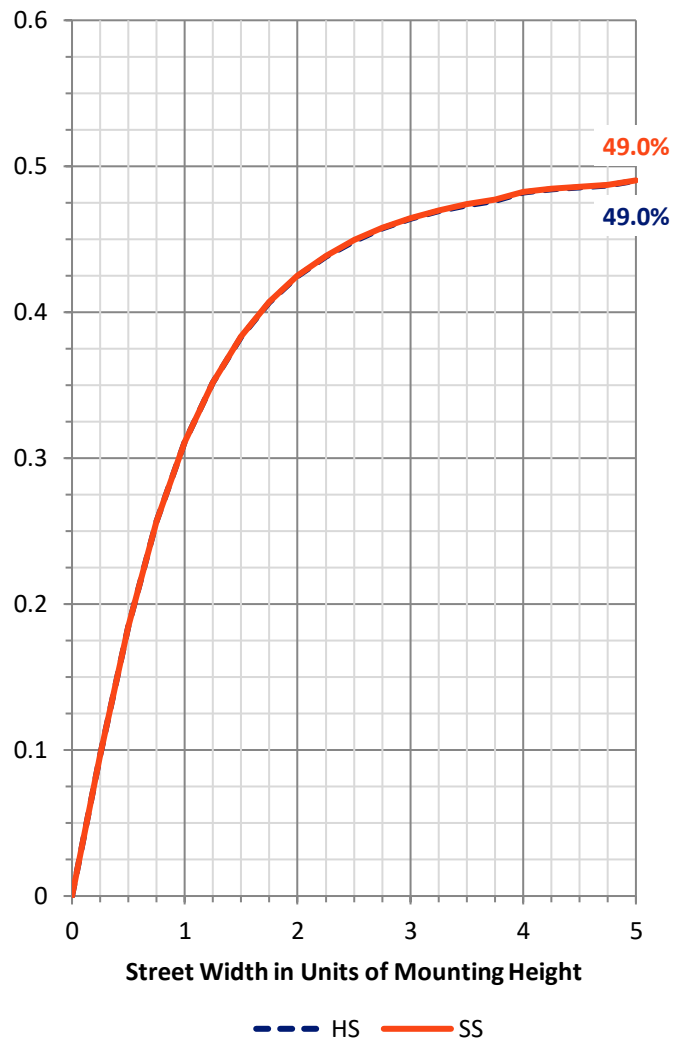
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6248.8	58.0	6306.8
	% Fixture	49.5	0.5	50.0
Street Side	Lumens	6248.8	58.0	6306.8
	% Fixture	49.5	0.5	50.0
Total	Lumens	12497.6	116.1	12613.7
	% Fixture	99.1	0.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	1.8
10°-20°	727.0	5.8
20°-30°	1254.3	9.9
30°-40°	1703.0	13.5
40°-50°	1996.3	15.8
50°-60°	2248.6	17.8
60°-70°	2332.4	18.5
70°-80°	1627.2	12.9
80°-90°	376.2	3.0
90°-100°	72.7	0.6
100°-110°	33.3	0.3
110°-120°	9.1	0.1
120°-130°	1.0	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°	12497.6	99.1
0°-180°	12613.7	100.0

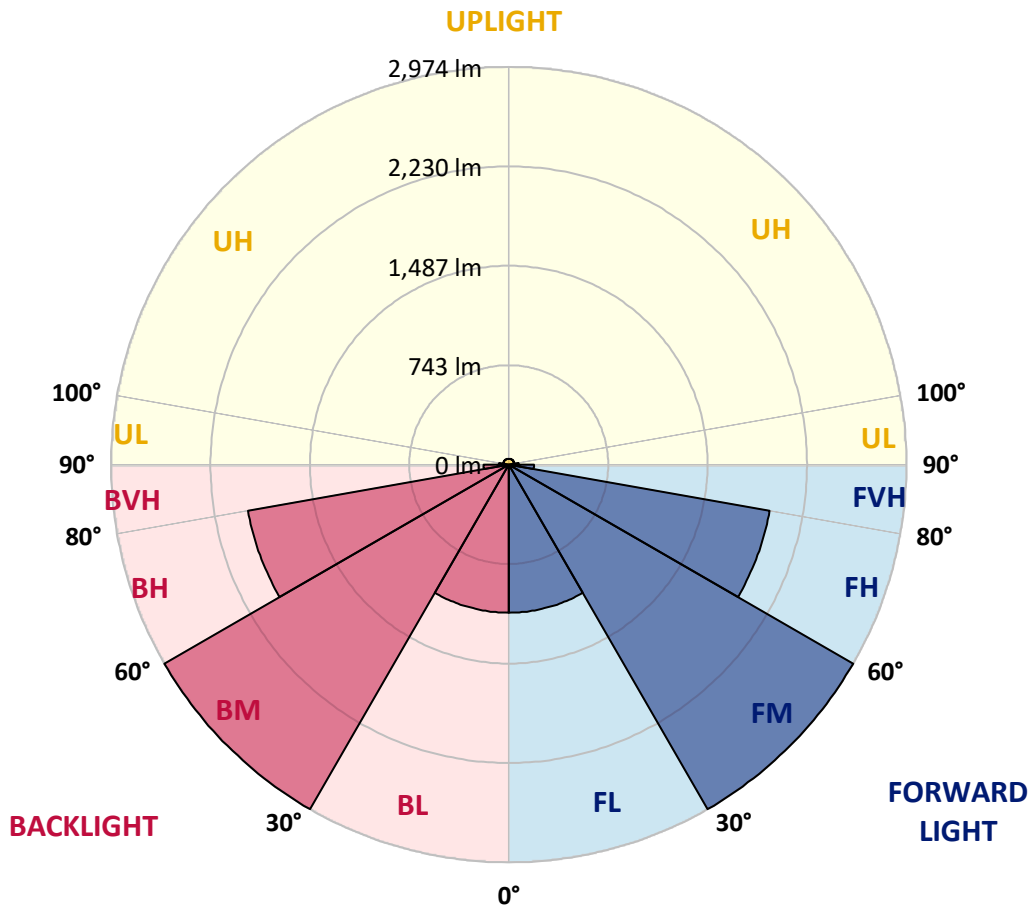


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.9	8.8			
FM (30°-60°)	2973.9	23.6			
FH (60°-80°)	1979.8	15.7			G2/5000
FVH (80°-90°)	188.1	1.5			G2/225
BL (0°-30°)	1106.9	8.8	B3/2500		
BM (30°-60°)	2973.9	23.6	B3/5000		
BH (60°-80°)	1979.8	15.7	B3/2500		G2/5000
BVH (80°-90°)	188.1	1.5			G2/225
UL (90°-100°)	72.7	0.6		U3/500	
UH (100°-180°)	43.4	0.3		U2/50	

BUG Rating: B3-U3-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2395	2395	2395	2395	2395
2.5°	2404	2402	2399	2399	2400
5°	2427	2414	2410	2412	2421
7.5°	2461	2445	2437	2449	2431
10°	2483	2461	2477	2470	2468
12.5°	2552	2532	2507	2501	2500
15°	2559	2570	2553	2524	2524
17.5°	2658	2637	2584	2578	2577
20°	2714	2678	2594	2624	2625
22.5°	2778	2754	2636	2632	2682
25°	2816	2783	2670	2668	2683
27.5°	2853	2782	2670	2679	2731
30°	2804	2788	2687	2737	2717
32.5°	2832	2725	2750	2738	2677
35°	2768	2696	2737	2667	2689
37.5°	2746	2690	2701	2692	2651
40°	2692	2688	2690	2633	2631
42.5°	2602	2620	2678	2611	2569
45°	2573	2579	2641	2560	2512
47.5°	2487	2520	2613	2520	2499
50°	2479	2455	2561	2497	2424
52.5°	2634	2448	2513	2464	2435
55°	2604	2540	2506	2458	2593
57.5°	2529	2537	2466	2575	2517
60°	2429	2459	2453	2522	2518
62.5°	2332	2387	2462	2525	2438
65°	2246	2302	2446	2419	2346
67.5°	2160	2216	2340	2329	2271
70°	2087	2124	2182	2222	2260
72.5°	1892	1979	1952	2031	2017
75°	1557	1570	1608	1621	1589
77.5°	1086	1093	1221	1157	1137
80°	662	731	796	730	735
82.5°	441	461	509	478	481
85°	293	307	298	307	310
87.5°	185	186	168	181	180
90°	109	110	98	105	110
92.5°	83	76	63	72	78
95°	72	63	49	60	68
97.5°	68	58	43	56	66
100°	58	49	35	50	58
102.5°	49	40	27	43	51
105°	39	31	19	32	40
107.5°	30	23	13	24	31
110°	23	17	9	17	24



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17	12	6	13	17
115°	13	9	4	9	12
117.5°	9	6	1	6	9
120°	6	5	0	5	6
122.5°	5	2	0	2	4
125°	1	0	0	0	1
127.5°	0	0	0	0	1
130°	0	0	0	0	0
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)