

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: G3-2010-983-12

Luminaire Tested: **CLCS40S-120W-5000K**

Test Date: 10/17/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G3-2010-983-12  
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-120W-5000K  
Description: SELECTABLE CANOPY, 120W, 5000K  
Light Source: -  
Ballast/Driver: -  
SS-150VA-56B

**Summary**

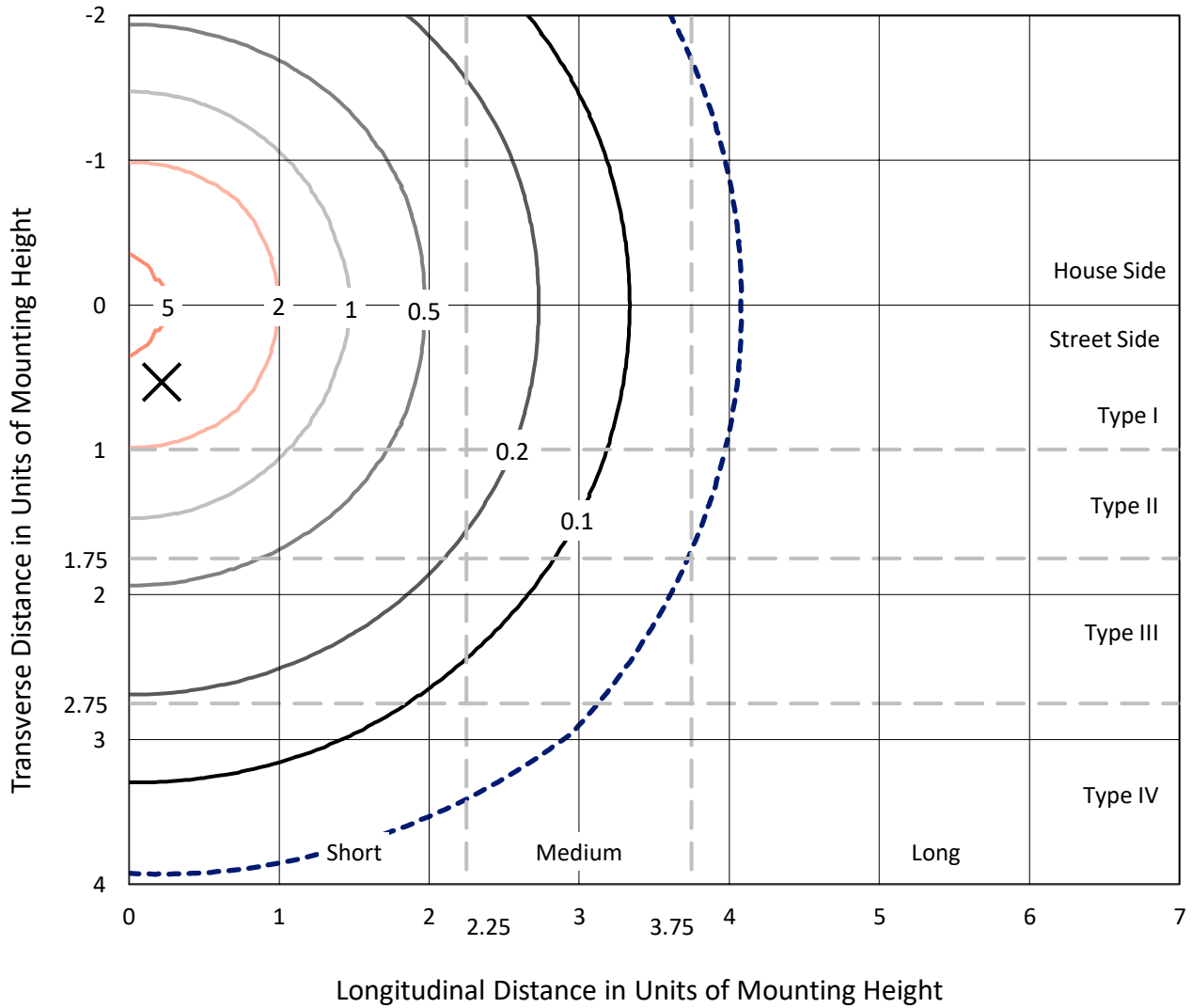
Lumens per Lamp: N/A  
Luminaire Lumens: 17427.1 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.12')  
IES Classification: Type V - Short  
BUG Rating: B4 - U3 - G3  
  
Input Watts (W): 123.3  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 1.03  
Voltage Rise (V): NR  
Power Factor: 0.9967  
Total Harmonic Distortion (THDi): 3.91%  
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

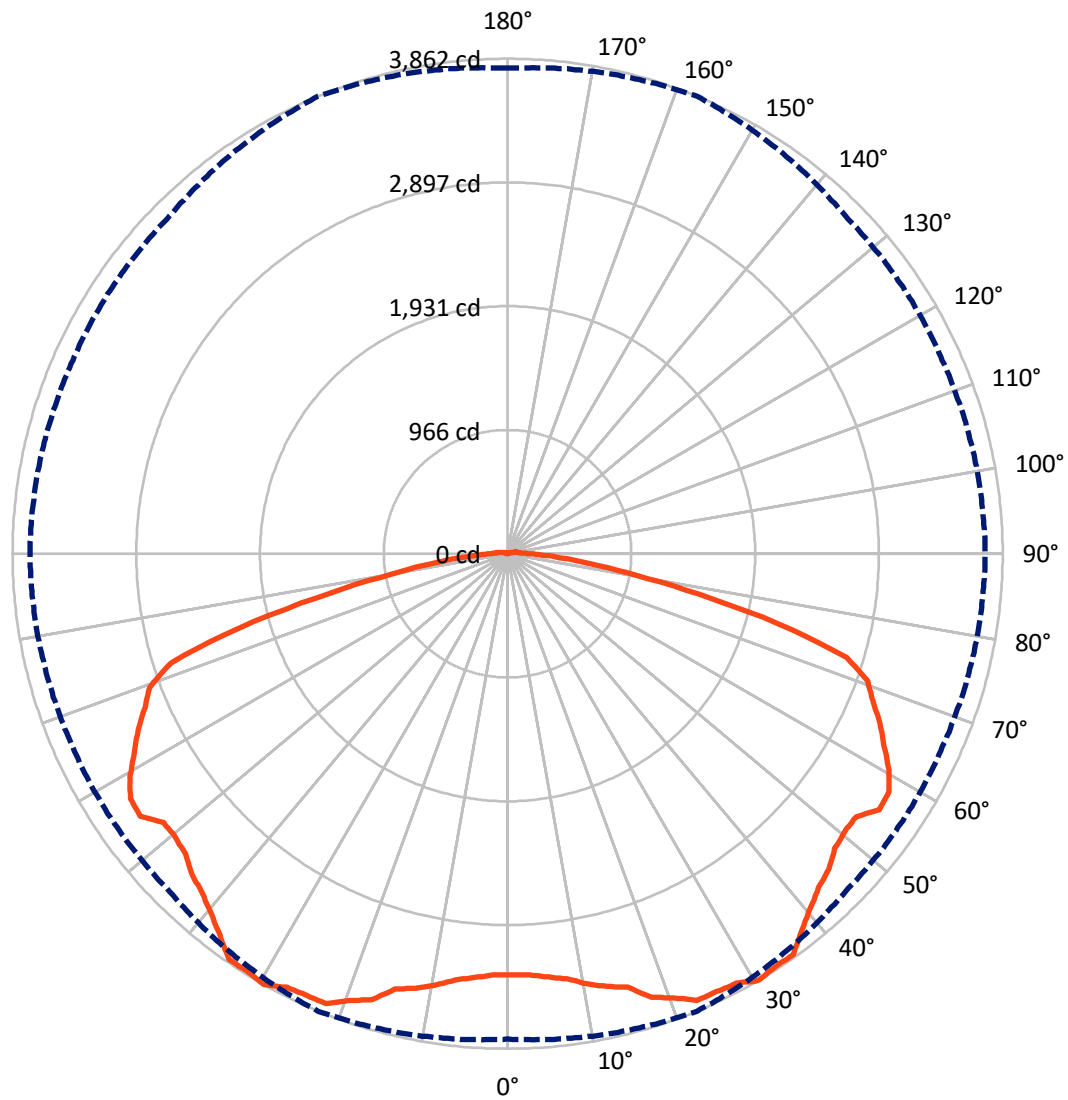
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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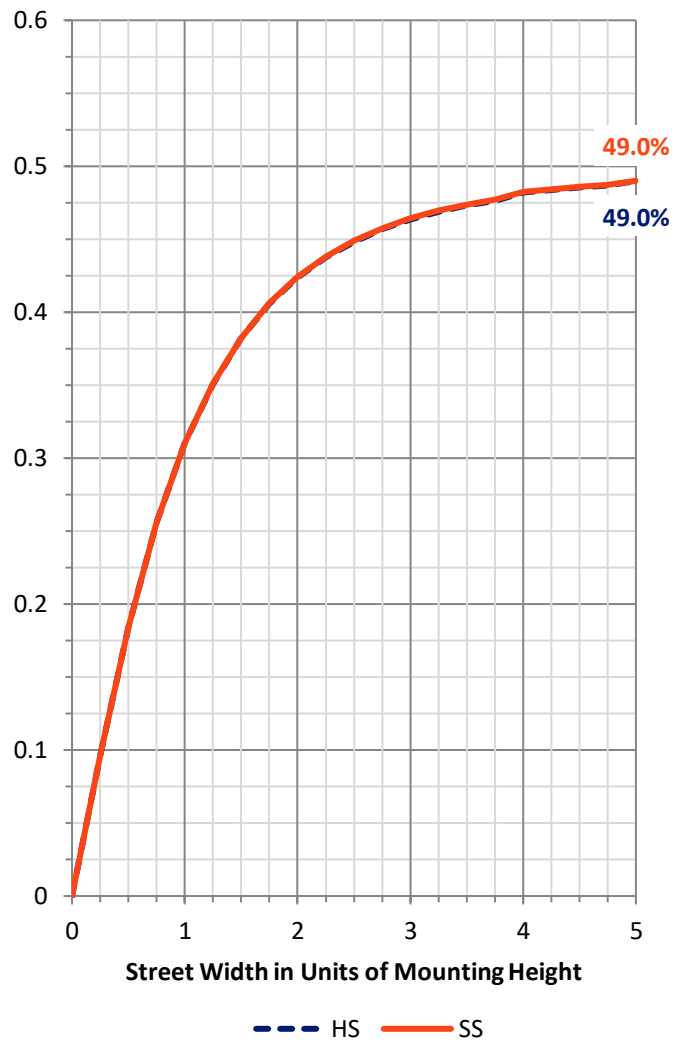
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8631.1	82.4	8713.5
	% Fixture	49.5	0.5	50.0
<b>Street Side</b>	Lumens	8631.1	82.4	8713.5
	% Fixture	49.5	0.5	50.0
<b>Total</b>	Lumens	17262.3	164.8	17427.1
	% Fixture	99.1	0.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.3	1.8
10°-20°	994.9	5.7
20°-30°	1720.2	9.9
30°-40°	2340.4	13.4
40°-50°	2737.3	15.7
50°-60°	3108.9	17.8
60°-70°	3249.9	18.6
70°-80°	2267.4	13.0
80°-90°	525.0	3.0
90°-100°	102.3	0.6
100°-110°	47.0	0.3
110°-120°	13.3	0.1
120°-130°	2.1	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°	17262.3	99.1
0°-180°	17427.1	100.0

**Coefficient of Utilization**

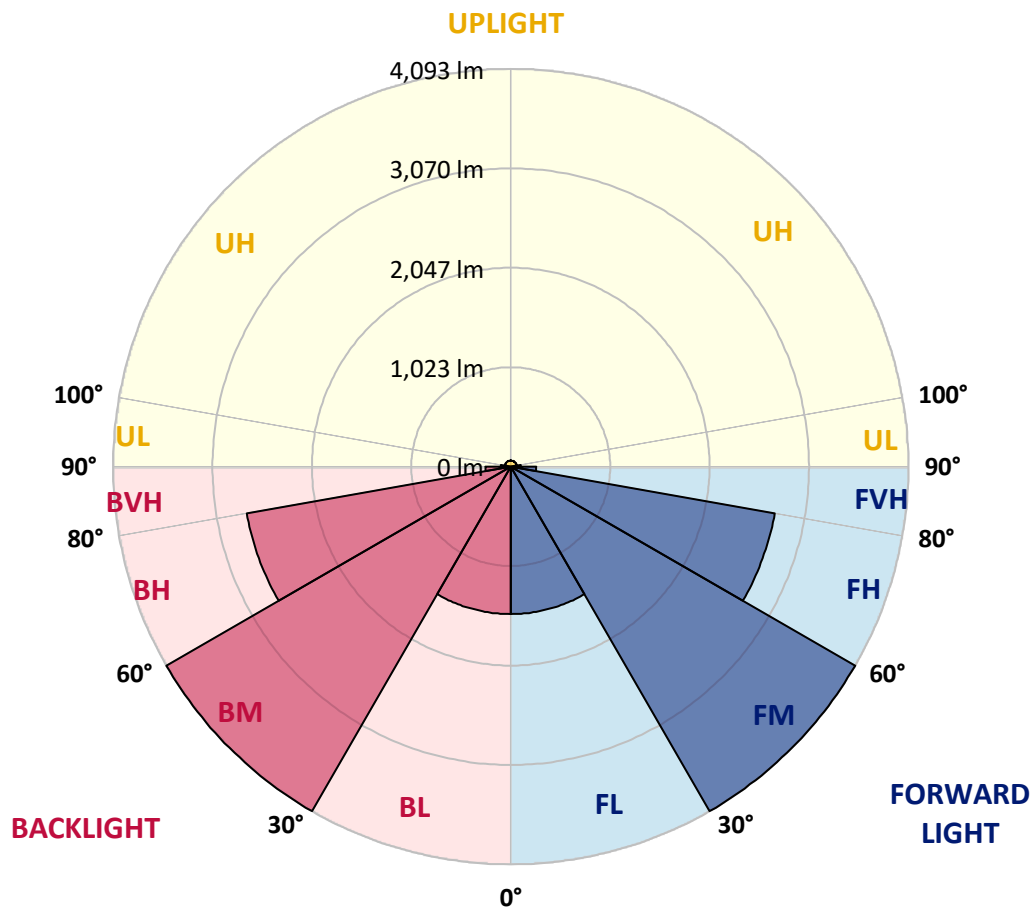


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.7	8.7			
FM (30°-60°)	4093.3	23.5			
FH (60°-80°)	2758.6	15.8			G2/5000
FVH (80°-90°)	262.5	1.5			G3/500
BL (0°-30°)	1516.7	8.7	B3/2500		
BM (30°-60°)	4093.3	23.5	B3/5000		
BH (60°-80°)	2758.6	15.8	B4/5000		G2/5000
BVH (80°-90°)	262.5	1.5			G3/500
UL (90°-100°)	102.3	0.6		U3/500	
UH (100°-180°)	62.5	0.4		U3/500	

**BUG Rating: B4-U3-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3286	3286	3286	3286	3286
2.5°	3290	3289	3289	3290	3290
5°	3306	3316	3312	3309	3304
7.5°	3330	3349	3339	3332	3343
10°	3383	3412	3382	3380	3368
12.5°	3453	3464	3408	3425	3409
15°	3594	3507	3459	3475	3467
17.5°	3670	3638	3504	3504	3530
20°	3780	3697	3550	3548	3584
22.5°	3802	3785	3634	3622	3667
25°	3824	3785	3655	3687	3715
27.5°	3804	3795	3690	3716	3727
30°	3787	3862	3726	3712	3725
32.5°	3753	3837	3741	3721	3725
35°	3727	3839	3692	3736	3696
37.5°	3670	3728	3719	3699	3624
40°	3576	3635	3767	3626	3600
42.5°	3557	3559	3682	3583	3551
45°	3446	3510	3625	3528	3506
47.5°	3364	3435	3606	3494	3382
50°	3371	3406	3571	3392	3366
52.5°	3575	3406	3502	3423	3321
55°	3571	3522	3430	3379	3436
57.5°	3469	3508	3403	3477	3729
60°	3335	3417	3433	3651	3520
62.5°	3224	3297	3430	3465	3347
65°	3127	3192	3398	3390	3312
67.5°	3018	3072	3270	3268	3186
70°	2931	2980	3054	3118	3060
72.5°	2693	2764	2733	2816	2818
75°	2110	2184	2272	2274	2263
77.5°	1425	1525	1694	1598	1556
80°	915	1007	1111	1023	1009
82.5°	613	656	699	673	663
85°	420	430	422	430	428
87.5°	260	260	237	245	248
90°	155	155	140	145	150
92.5°	117	107	88	100	110
95°	101	88	69	85	96
97.5°	96	81	61	80	94
100°	82	69	50	71	83
102.5°	70	56	37	59	71
105°	56	43	28	45	57
107.5°	43	33	19	34	44
110°	33	24	13	25	34



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25	18	9	18	26
115°	18	13	6	13	18
117.5°	13	9	1	9	13
120°	9	7	1	7	9
122.5°	7	3	1	3	7
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)