

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: G3-2010-983-11

Luminaire Tested: **CLCS40S-120W-4000K**

Test Date: 10/16/2020

Test Information

Test Method: LM-79-08
Report Number: G3-2010-983-11
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 10/16/2020
Issue Date: 10/16/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCS40S-120W-4000K
Description: SELECTABLE CANOPY, 120W, 4000K
Light Source: -
Ballast/Driver: -
SS-150VA-56B

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17627.2 lumens
Efficiency: N/A
Efficacy: 148.5 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

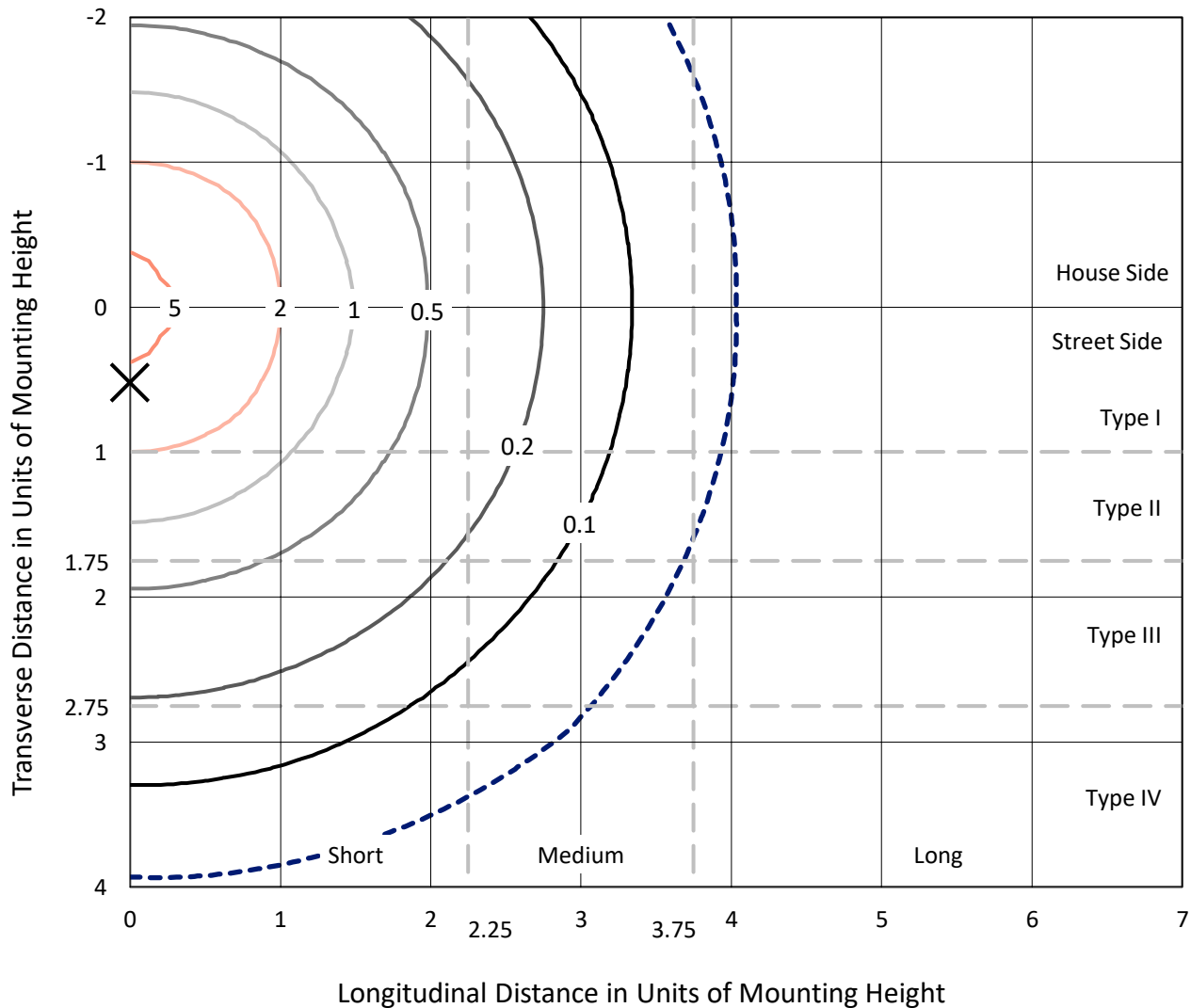
Input Watts (W): 118.7
Input Voltage (V): 120.0
Input Current (A_{in}): 0.992
Voltage Rise (V): NR
Power Factor: 0.9965
Total Harmonic Distortion (THDi): 3.91%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 25.3
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

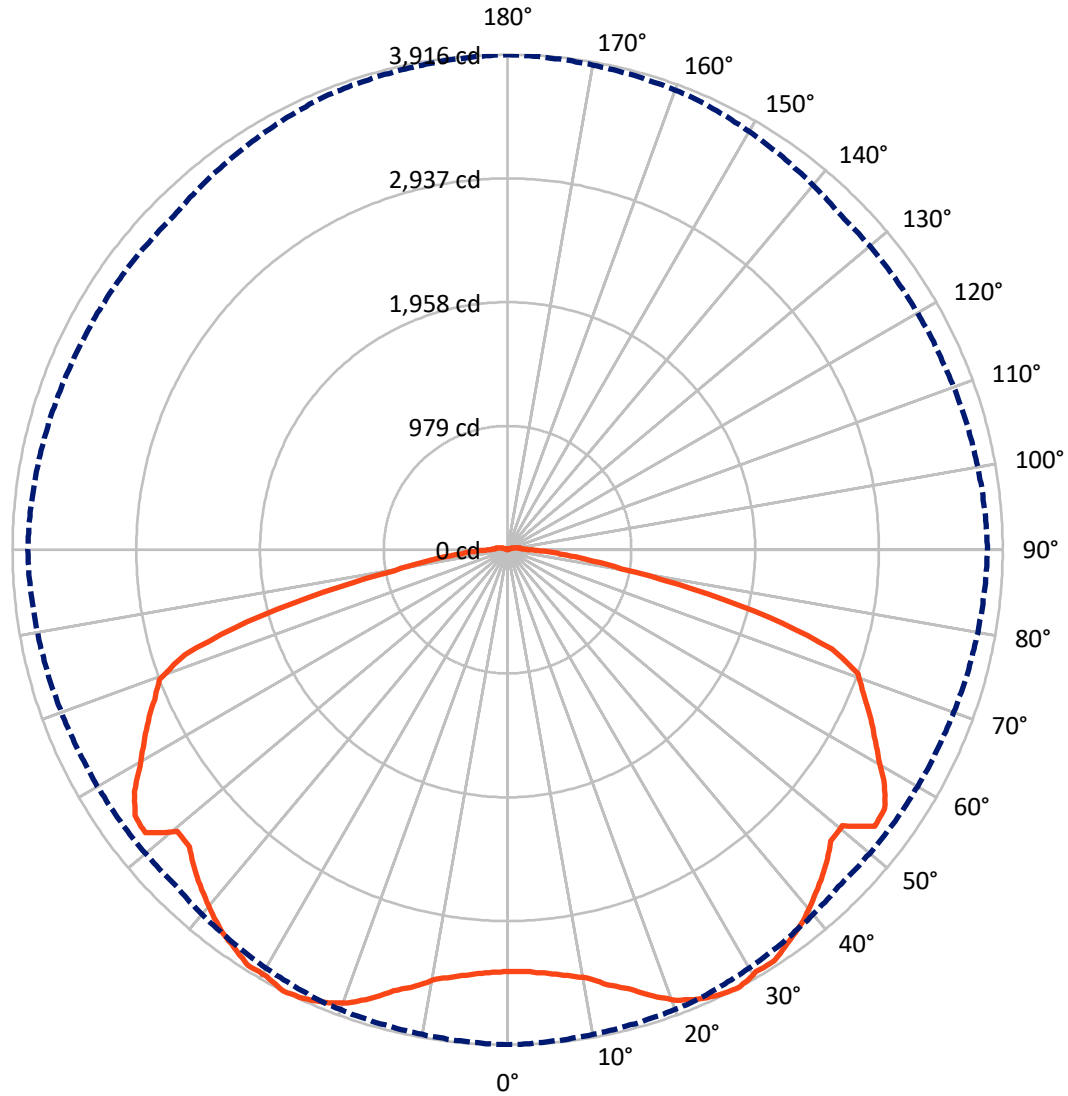
× Max cd
 - - - 1/2 Max cd



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

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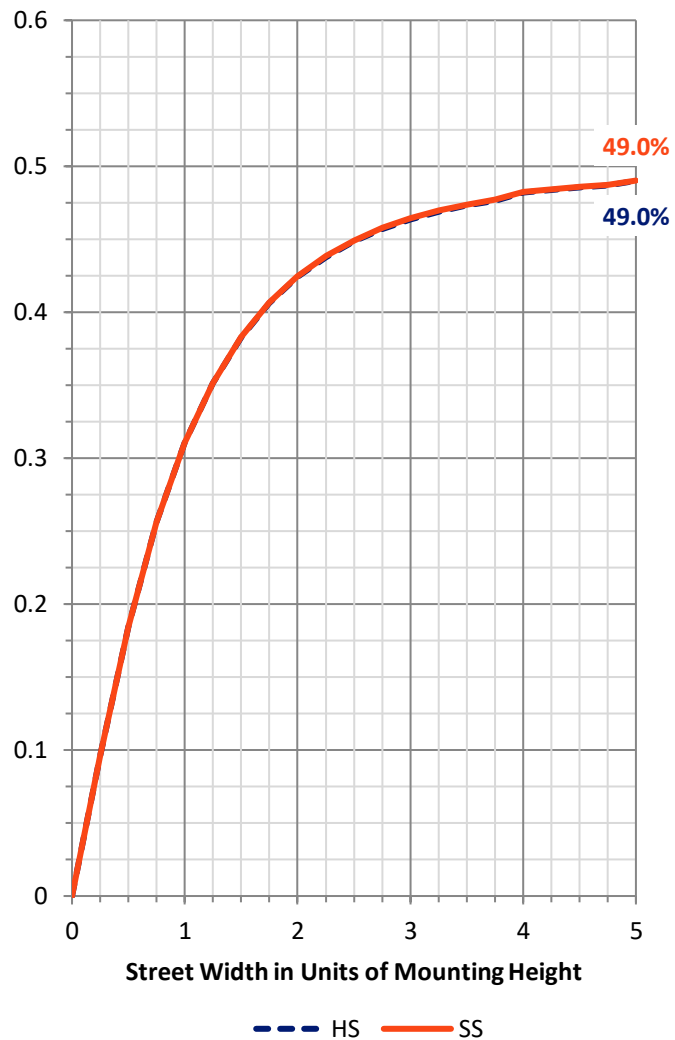
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8731.5	82.1	8813.6
	% Fixture	49.5	0.5	50.0
Street Side	Lumens	8731.5	82.1	8813.6
	% Fixture	49.5	0.5	50.0
Total	Lumens	17463.0	164.2	17627.2
	% Fixture	99.1	0.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	1.8
10°-20°	1010.7	5.7
20°-30°	1745.9	9.9
30°-40°	2373.4	13.5
40°-50°	2779.3	15.8
50°-60°	3144.7	17.8
60°-70°	3274.6	18.6
70°-80°	2281.6	12.9
80°-90°	529.5	3.0
90°-100°	102.1	0.6
100°-110°	46.9	0.3
110°-120°	13.1	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°	17463.0	99.1
0°-180°	17627.2	100.0

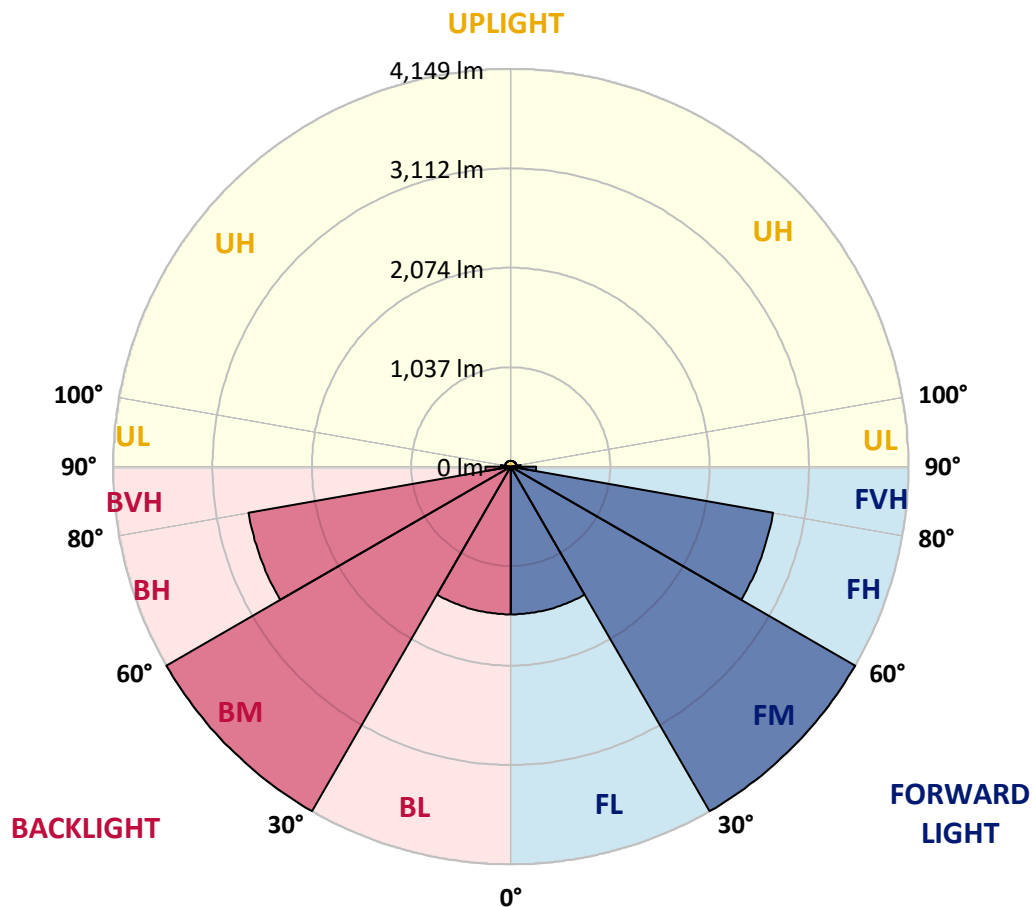


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.0	8.7			
FM (30°-60°)	4148.7	23.5			
FH (60°-80°)	2778.1	15.8			G2/5000
FVH (80°-90°)	264.8	1.5			G3/500
BL (0°-30°)	1540.0	8.7	B3/2500		
BM (30°-60°)	4148.7	23.5	B3/5000		
BH (60°-80°)	2778.1	15.8	B4/5000		G2/5000
BVH (80°-90°)	264.8	1.5			G3/500
UL (90°-100°)	102.1	0.6		U3/500	
UH (100°-180°)	62.1	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°	3334	3334	3334	3334	3334
2.5°	3343	3341	3338	3339	3339
5°	3366	3362	3357	3359	3361
7.5°	3401	3401	3389	3394	3389
10°	3444	3444	3441	3434	3425
12.5°	3531	3518	3474	3476	3468
15°	3603	3565	3532	3519	3515
17.5°	3712	3684	3576	3572	3586
20°	3804	3741	3606	3624	3648
22.5°	3863	3838	3677	3673	3724
25°	3900	3856	3712	3725	3750
27.5°	3916	3864	3734	3751	3796
30°	3874	3897	3762	3787	3783
32.5°	3876	3844	3813	3792	3754
35°	3819	3824	3781	3754	3747
37.5°	3768	3765	3770	3749	3689
40°	3693	3716	3786	3679	3659
42.5°	3616	3634	3732	3637	3585
45°	3536	3578	3681	3573	3530
47.5°	3441	3496	3647	3527	3458
50°	3433	3436	3597	3463	3396
52.5°	3637	3438	3528	3454	3383
55°	3620	3561	3487	3426	3555
57.5°	3517	3541	3447	3556	3673
60°	3375	3453	3451	3612	3550
62.5°	3257	3331	3453	3521	3410
65°	3150	3220	3430	3414	3317
67.5°	3033	3097	3295	3283	3206
70°	2940	2984	3068	3125	3138
72.5°	2686	2769	2751	2848	2830
75°	2145	2206	2265	2272	2262
77.5°	1492	1553	1703	1611	1549
80°	914	1016	1114	1044	997
82.5°	627	655	709	679	676
85°	422	431	425	436	443
87.5°	258	262	237	247	253
90°	157	155	139	145	154
92.5°	118	107	88	100	111
95°	101	88	68	84	95
97.5°	96	81	60	80	93
100°	81	69	50	71	82
102.5°	70	56	37	59	71
105°	55	43	27	45	57
107.5°	43	33	19	34	44
110°	33	24	12	25	34



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24	18	9	18	25
115°	18	12	6	13	18
117.5°	12	9	1	9	12
120°	9	7	1	7	9
122.5°	7	3	1	3	6
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)