

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P640870

Luminaire Tested: ML5612LSFL4097FS1E - 694WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 694WB - 900LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1428.1 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

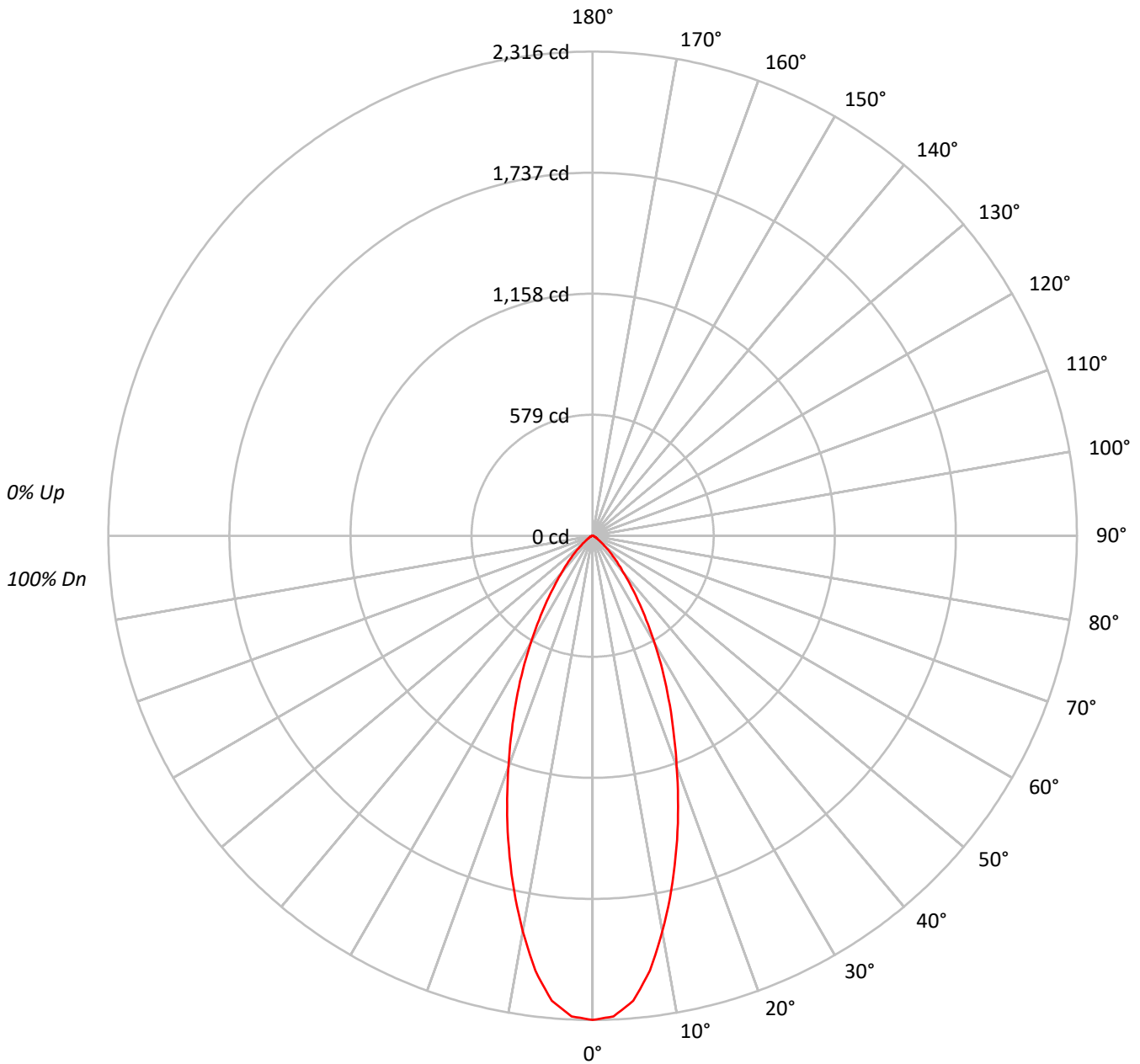
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20								
RC	80									50									30									10									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93	93															
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87	87	87	87	87	87	87	87	87	87	87	87	87															
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81	81	81	81	81	81	81	81	81	81	81	81	81															
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76	76	76	76	76	76	76	76	76	76															
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71	71	71	71	71	71	71	71	71	71															
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66	66	66	66	66	66	66	66	66	66	66	66	66															
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62	62	62	62	62	62	62															
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59	59	59	59	59	59	59	59	59	59	59	59	59															
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56	56	56	56	56	56	56	56	56	56	56	56	56															
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53	53	53	53	53	53	53	53	53	53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126953
5°	122859
10°	106940
15°	87833
20°	68565
25°	52019
30°	37392
35°	25417
40°	16345
45°	10582
50°	6141
55°	3441
60°	2313
65°	1608
70°	1186
75°	1059
80°	379
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	14.2
10°-20°	428.0	30.0
20°-30°	394.0	27.6
30°-40°	241.2	16.9
40°-50°	107.9	7.6
50°-60°	35.6	2.5
60°-70°	13.3	0.9
70°-80°	4.7	0.3
80°-90°	0.5	0.0
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°-30°	1024.9	71.8
0°-40°	1266.1	88.7
0°-60°	1409.6	98.7
0°-90°	1428.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2316	
5°	2233	203
15°	1548	428
25°	860	394
35°	380	241
45°	136	108
55°	36	36
65°	12	13
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2315.8
2.5°	2300.9
5°	2232.6
7.5°	2098.6
10°	1921.1
12.5°	1737.4
15°	1547.6
17.5°	1358.9
20°	1175.3
22.5°	1009.0
25°	860.0
27.5°	721.0
30°	590.7
32.5°	476.6
35°	379.8
37.5°	297.8
40°	228.4
42.5°	178.7
45°	136.5
47.5°	100.5
50°	72.0
52.5°	50.9
55°	36.0
57.5°	27.3
60°	21.1
62.5°	17.4
65°	12.4
67.5°	9.9
70°	7.4
72.5°	6.2
75°	5.0
77.5°	2.5
80°	1.2
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)