

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: P640475

Luminaire Tested: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

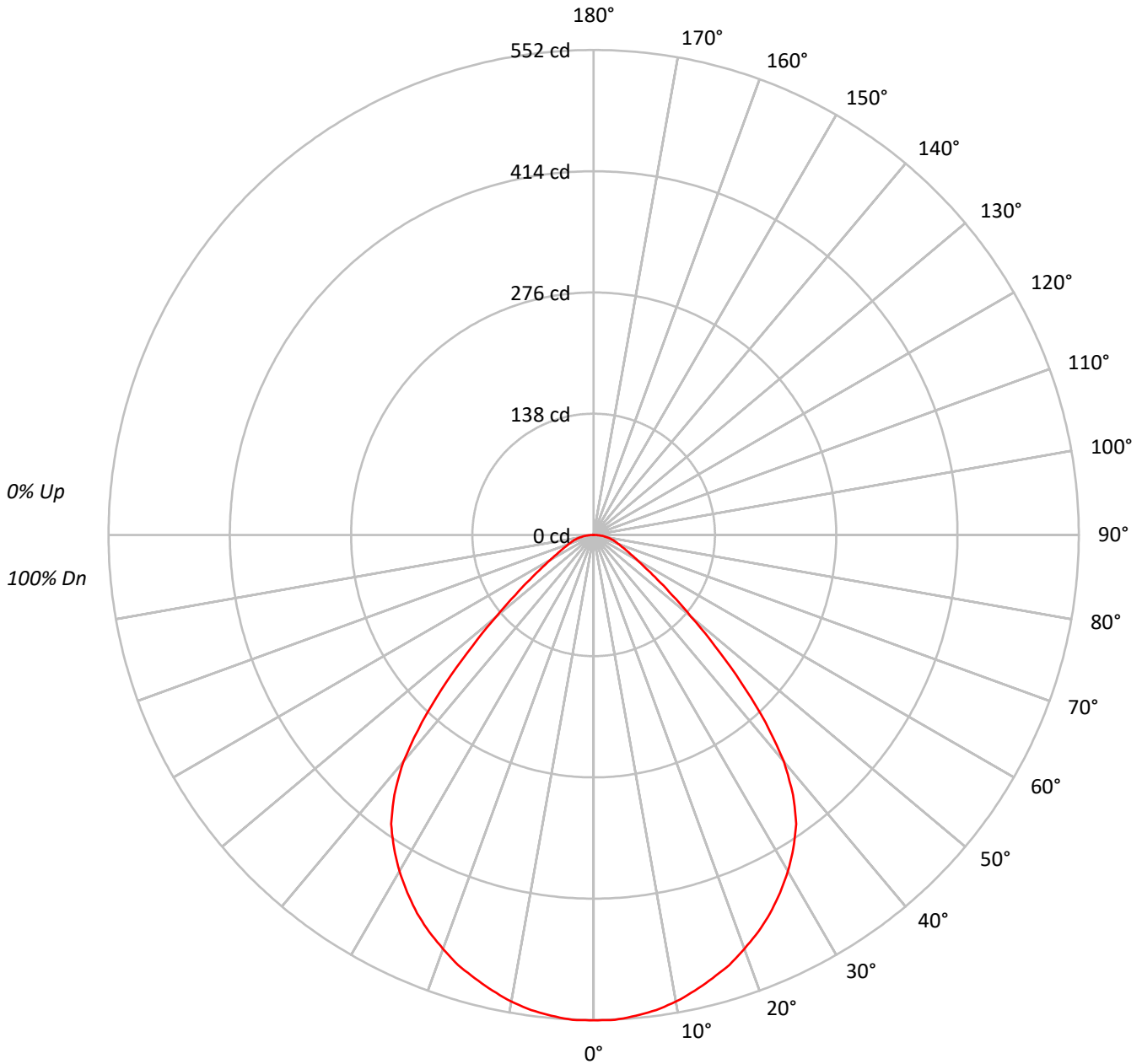
Lumens per Lamp: N/A
Luminaire Lumens: 1004.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): 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



TEST NUMBER: P640475
CATALOG NUMBER: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P640475

CATALOG NUMBER: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62																			
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56																			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38																			
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30288
5°	30239
10°	30026
15°	29648
20°	29245
25°	28744
30°	27979
35°	26890
40°	24081
45°	18382
50°	12341
55°	8449
60°	6282
65°	5215
70°	4825
75°	4893
80°	4767
85°	4403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18382 cd/sqm



TEST NUMBER: P640475

CATALOG NUMBER: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	5.2
10°-20°	147.4	14.7
20°-30°	218.5	21.8
30°-40°	247.9	24.7
40°-50°	182.6	18.2
50°-60°	82.7	8.2
60°-70°	40.9	4.1
70°-80°	24.0	2.4
80°-90°	8.1	0.8
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°	418.0	41.6
0°-40°	665.9	66.3
0°-60°	931.3	92.7
0°-90°	1004.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	552	
5°	550	52
15°	522	147
25°	475	218
35°	402	248
45°	237	183
55°	88	83
65°	40	41
75°	23	24
85°	7	8
90°	0	



TEST NUMBER: P640475

CATALOG NUMBER: ML5609LSVWFLD2W1E - 693WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	552.5
2.5°	552.5
5°	549.5
7.5°	545.5
10°	539.4
12.5°	531.4
15°	522.4
17.5°	513.3
20°	501.3
22.5°	489.2
25°	475.2
27.5°	459.1
30°	442.0
32.5°	422.9
35°	401.8
37.5°	372.7
40°	336.5
42.5°	289.3
45°	237.1
47.5°	186.8
50°	144.7
52.5°	112.5
55°	88.4
57.5°	70.3
60°	57.3
62.5°	47.2
65°	40.2
67.5°	34.2
70°	30.1
72.5°	26.1
75°	23.1
77.5°	19.1
80°	15.1
82.5°	12.1
85°	7.0
87.5°	3.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)