

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: P640459

Luminaire Tested: ML5609LSVWFLD2W1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 596WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

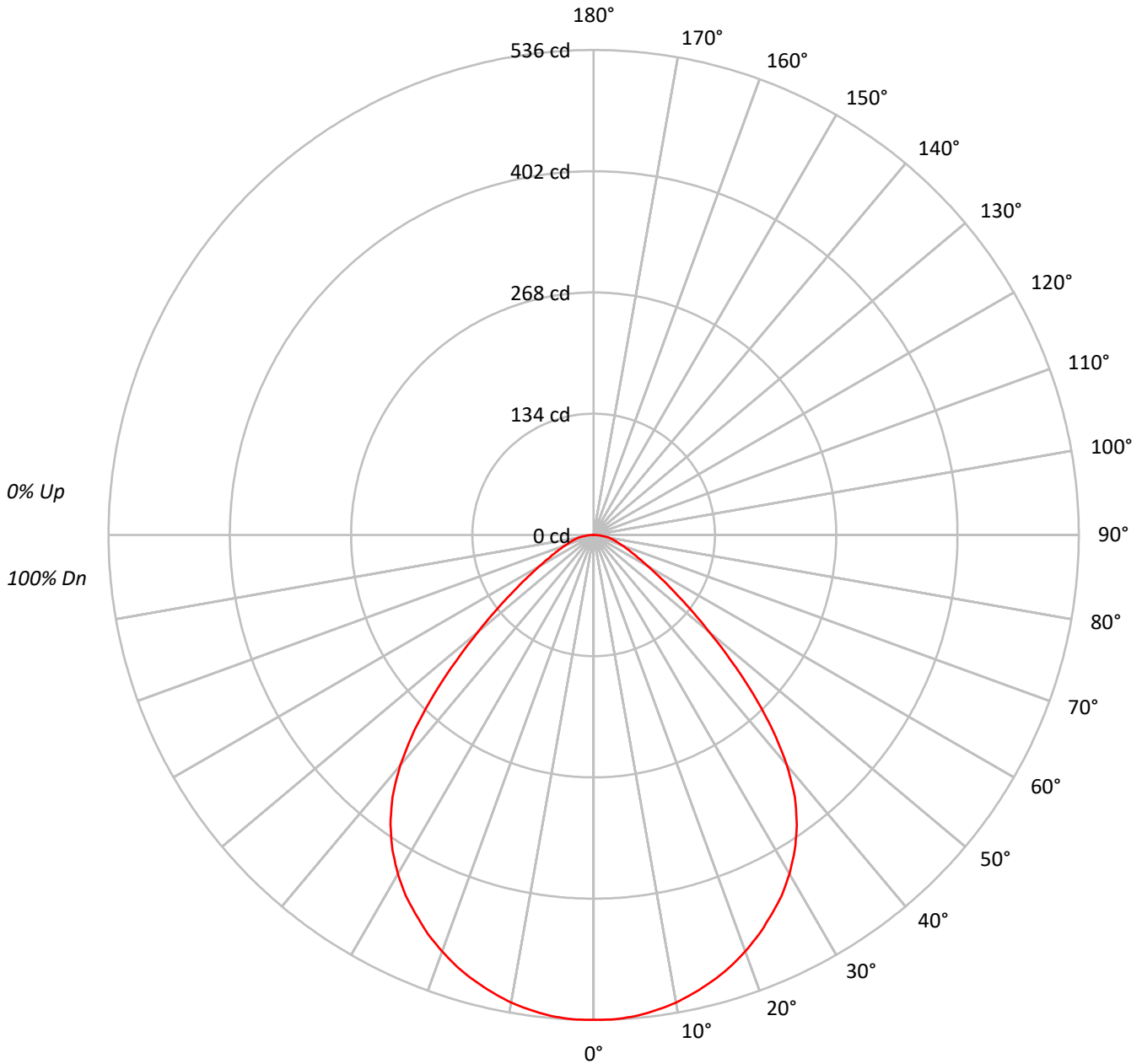
Lumens per Lamp: N/A
Luminaire Lumens: 1022.2 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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									
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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42304
5°	42308
10°	42075
15°	41672
20°	41147
25°	40389
30°	39433
35°	37719
40°	34233
45°	27899
50°	20460
55°	14644
60°	10941
65°	8816
70°	7640
75°	7351
80°	7319
85°	6340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	5.0
10°-20°	143.8	14.1
20°-30°	213.6	20.9
30°-40°	242.6	23.7
40°-50°	191.5	18.7
50°-60°	98.6	9.6
60°-70°	47.8	4.7
70°-80°	25.6	2.5
80°-90°	8.2	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°	408.0	39.9
0°-40°	650.6	63.6
0°-60°	940.6	92.0
0°-90°	1022.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	534	51
15°	510	144
25°	464	214
35°	391	243
45°	250	191
55°	106	99
65°	47	48
75°	24	26
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535.9
2.5°	535.9
5°	533.9
7.5°	529.9
10°	524.9
12.5°	517.9
15°	509.9
17.5°	500.8
20°	489.8
22.5°	477.7
25°	463.7
27.5°	449.6
30°	432.6
32.5°	413.5
35°	391.4
37.5°	365.3
40°	332.2
42.5°	293.1
45°	249.9
47.5°	205.7
50°	166.6
52.5°	133.5
55°	106.4
57.5°	85.3
60°	69.3
62.5°	56.2
65°	47.2
67.5°	39.1
70°	33.1
72.5°	28.1
75°	24.1
77.5°	20.1
80°	16.1
82.5°	12.0
85°	7.0
87.5°	3.0
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)