

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: P640446

Luminaire Tested: ML5609LSVWFLD2W1E - 593BB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 593BB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 750.8 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

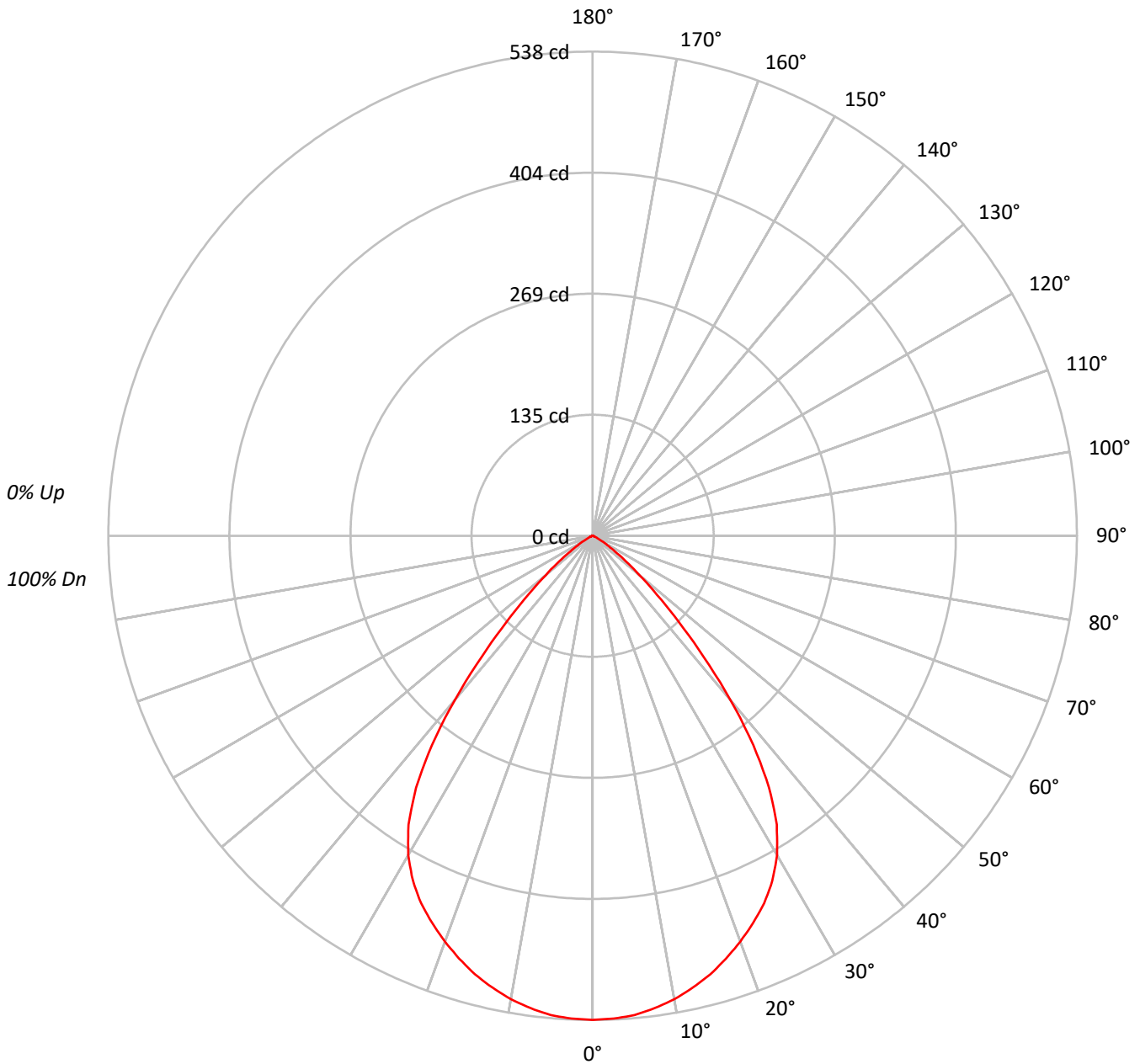
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49																			
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29493
5°	29424
10°	29108
15°	28638
20°	27991
25°	27262
30°	25934
35°	22874
40°	17053
45°	10451
50°	5791
55°	2886
60°	1305
65°	415
70°	176
75°	233
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10451 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	6.7
10°-20°	142.0	18.9
20°-30°	206.6	27.5
30°-40°	208.3	27.7
40°-50°	108.0	14.4
50°-60°	30.0	4.0
60°-70°	4.5	0.6
70°-80°	0.7	0.1
80°-90°	0.0	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°	399.3	53.2
0°-40°	607.5	80.9
0°-60°	745.5	99.3
0°-90°	750.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	535	51
15°	505	142
25°	451	207
35°	342	208
45°	135	108
55°	30	30
65°	3	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	538.0
2.5°	536.9
5°	534.7
7.5°	529.4
10°	522.9
12.5°	514.3
15°	504.6
17.5°	492.7
20°	479.8
22.5°	465.7
25°	450.7
27.5°	432.3
30°	409.7
32.5°	380.6
35°	341.8
37.5°	293.2
40°	238.3
42.5°	182.2
45°	134.8
47.5°	97.0
50°	67.9
52.5°	46.4
55°	30.2
57.5°	19.4
60°	11.9
62.5°	6.5
65°	3.2
67.5°	2.2
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
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)