

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: P640469

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-110)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 693BB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 778.4 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

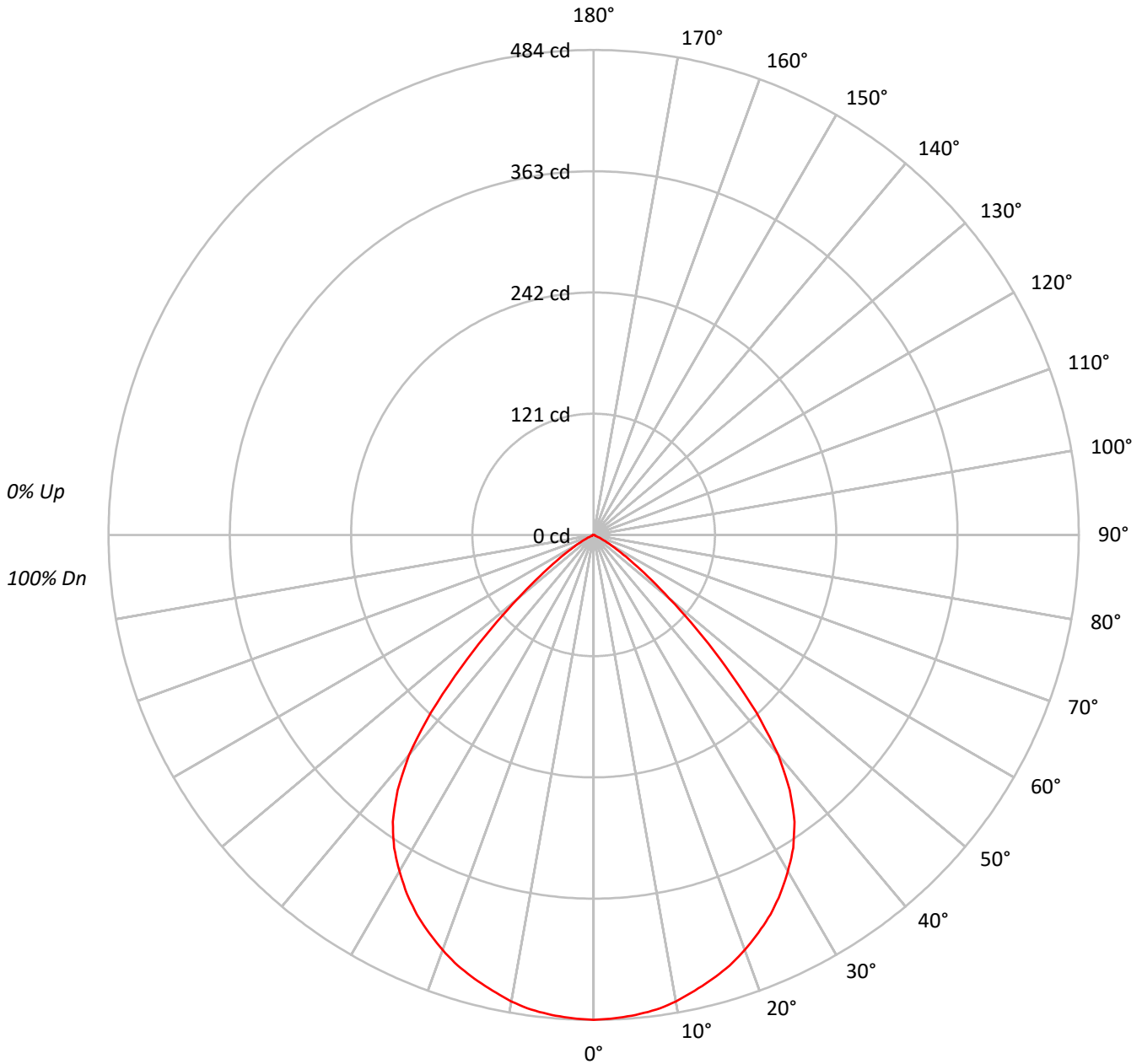
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83			83
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67
5	86	77	70	64	85	76	69	64	74	68	63	72	67	63	70	66	62	61			61
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26533
5°	26464
10°	26324
15°	26039
20°	25716
25°	25266
30°	24535
35°	23383
40°	20481
45°	14482
50°	8392
55°	4320
60°	1984
65°	649
70°	160
75°	212
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	5.9
10°-20°	129.4	16.6
20°-30°	192.0	24.7
30°-40°	215.2	27.6
40°-50°	144.7	18.6
50°-60°	44.1	5.7
60°-70°	6.5	0.8
70°-80°	0.9	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°	367.0	47.2
0°-40°	582.2	74.8
0°-60°	771.0	99.0
0°-90°	778.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	484	
5°	481	46
15°	459	129
25°	418	192
35°	349	215
45°	187	145
55°	45	44
65°	5	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	484.0
2.5°	482.9
5°	480.9
7.5°	477.9
10°	472.9
12.5°	465.9
15°	458.8
17.5°	450.8
20°	440.8
22.5°	429.7
25°	417.7
27.5°	403.6
30°	387.6
32.5°	370.5
35°	349.4
37.5°	321.3
40°	286.2
42.5°	240.0
45°	186.8
47.5°	138.6
50°	98.4
52.5°	67.3
55°	45.2
57.5°	29.1
60°	18.1
62.5°	10.0
65°	5.0
67.5°	2.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
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)