

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: P640480

Luminaire Tested: ML5609LSVWFLD2W1E - 694WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 694WB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

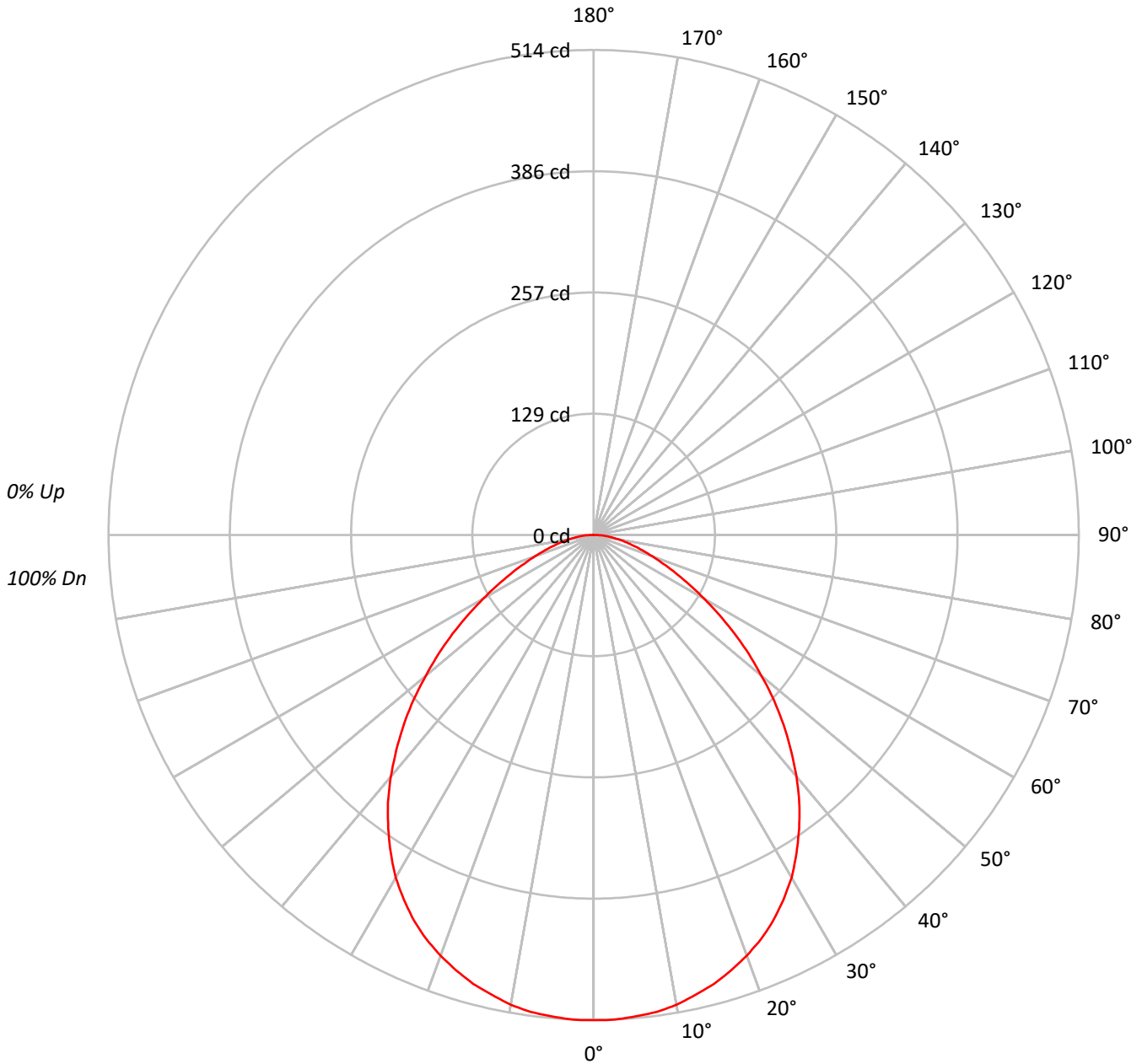
Lumens per Lamp: N/A
Luminaire Lumens: 1170.5 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64				64
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56				56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28194
5°	28181
10°	28150
15°	27963
20°	27676
25°	27262
30°	26548
35°	25397
40°	23916
45°	22064
50°	19769
55°	17414
60°	14780
65°	12453
70°	10547
75°	9129
80°	8177
85°	8114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	4.2
10°-20°	138.9	11.9
20°-30°	207.2	17.7
30°-40°	236.8	20.2
40°-50°	218.8	18.7
50°-60°	162.9	13.9
60°-70°	96.4	8.2
70°-80°	46.8	4.0
80°-90°	14.1	1.2
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°	394.8	33.7
0°-40°	631.5	54.0
0°-60°	1013.2	86.6
0°-90°	1170.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	514	
5°	512	49
15°	493	139
25°	451	207
35°	380	237
45°	285	219
55°	182	163
65°	96	96
75°	43	47
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	514.3
2.5°	514.3
5°	512.1
7.5°	510.0
10°	505.7
12.5°	499.2
15°	492.7
17.5°	484.1
20°	474.4
22.5°	463.6
25°	450.7
27.5°	435.6
30°	419.4
32.5°	400.0
35°	379.5
37.5°	358.0
40°	334.2
42.5°	309.4
45°	284.6
47.5°	258.8
50°	231.8
52.5°	207.0
55°	182.2
57.5°	157.4
60°	134.8
62.5°	114.3
65°	96.0
67.5°	79.8
70°	65.8
72.5°	53.9
75°	43.1
77.5°	34.5
80°	25.9
82.5°	18.3
85°	12.9
87.5°	7.5
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)