

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: P640481

Luminaire Tested: ML5609LSVWFLD2W1E - 696WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 696WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

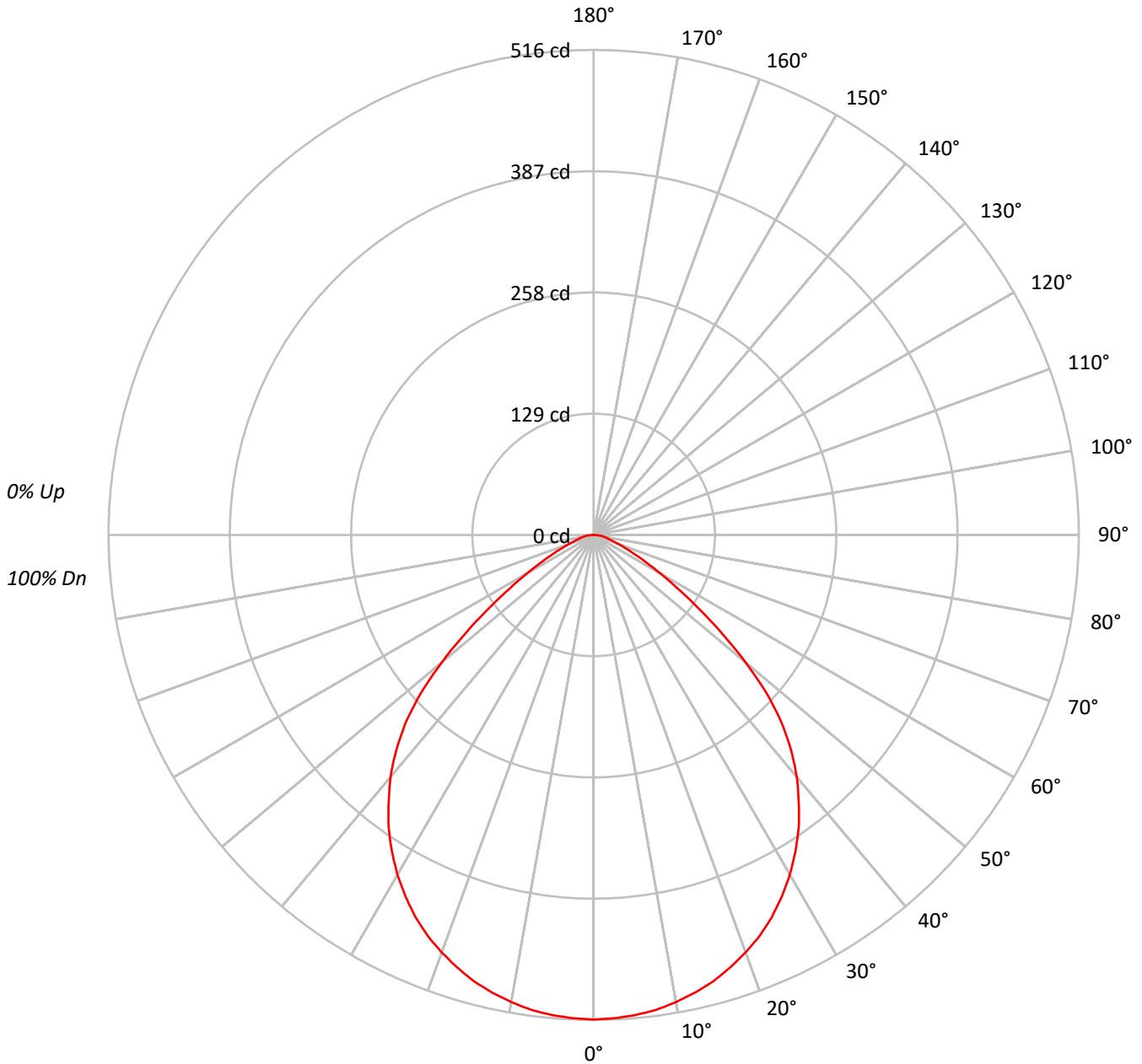
Lumens per Lamp: N/A
Luminaire Lumens: 1043.3 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	64	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28271
5°	28214
10°	28095
15°	27906
20°	27571
25°	27129
30°	26422
35°	25451
40°	24052
45°	21940
50°	17970
55°	12951
60°	8914
65°	6123
70°	4344
75°	3410
80°	3473
85°	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	4.7
10°-20°	138.6	13.3
20°-30°	206.2	19.8
30°-40°	236.9	22.7
40°-50°	215.0	20.6
50°-60°	124.1	11.9
60°-70°	49.2	4.7
70°-80°	18.5	1.8
80°-90°	6.1	0.6
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°	393.5	37.7
0°-40°	630.3	60.4
0°-60°	969.5	92.9
0°-90°	1043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	516	
5°	513	49
15°	492	139
25°	448	206
35°	380	237
45°	283	215
55°	136	124
65°	47	49
75°	16	19
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	515.7
2.5°	514.7
5°	512.7
7.5°	509.7
10°	504.7
12.5°	498.7
15°	491.7
17.5°	482.6
20°	472.6
22.5°	461.6
25°	448.5
27.5°	433.5
30°	417.4
32.5°	399.3
35°	380.3
37.5°	358.2
40°	336.1
42.5°	311.0
45°	283.0
47.5°	249.8
50°	210.7
52.5°	171.6
55°	135.5
57.5°	105.4
60°	81.3
62.5°	62.2
65°	47.2
67.5°	36.1
70°	27.1
72.5°	21.1
75°	16.1
77.5°	14.0
80°	11.0
82.5°	9.0
85°	6.0
87.5°	2.0
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

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— 0°-180°

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