

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: P640352

Luminaire Tested: ML5609LSNFL25D2W1E - 592W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 592W - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1126.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

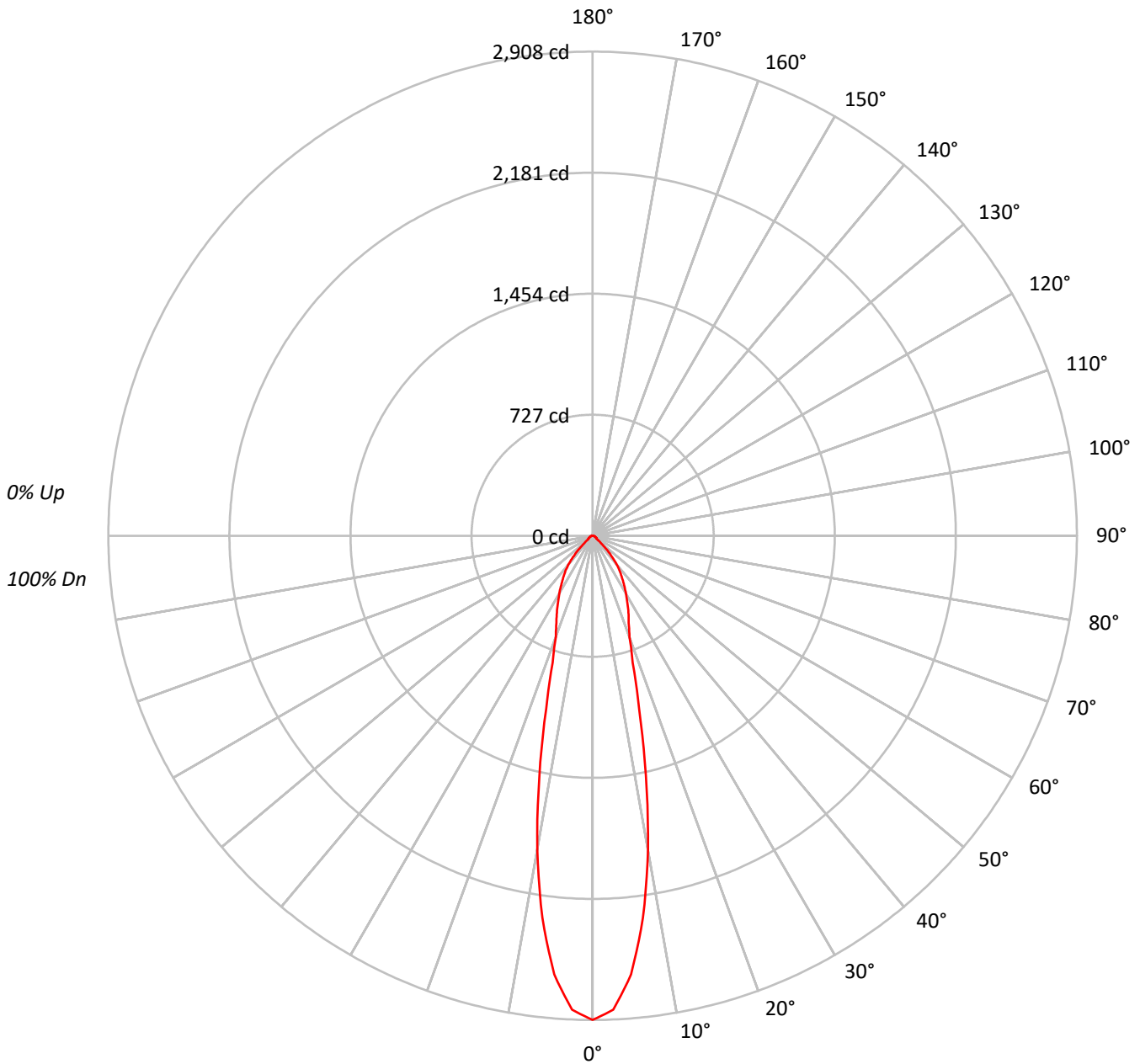
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229537
5°	209573
10°	153424
15°	88076
20°	54235
25°	44309
30°	36352
35°	29605
40°	23320
45°	14435
50°	5428
55°	4156
60°	3915
65°	3624
70°	3485
75°	3630
80°	3410
85°	2898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	20.3
10°-20°	309.3	27.5
20°-30°	233.8	20.8
30°-40°	192.6	17.1
40°-50°	98.5	8.7
50°-60°	28.1	2.5
60°-70°	19.3	1.7
70°-80°	12.4	1.1
80°-90°	3.7	0.3
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°	771.8	68.5
0°-40°	964.3	85.6
0°-60°	1091.0	96.9
0°-90°	1126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2908	
5°	2645	229
15°	1078	309
25°	509	234
35°	307	193
45°	129	99
55°	30	28
65°	19	19
75°	12	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2907.7
2.5°	2849.5
5°	2644.7
7.5°	2315.0
10°	1914.0
12.5°	1474.3
15°	1077.7
17.5°	798.6
20°	645.6
22.5°	566.9
25°	508.7
27.5°	450.5
30°	398.8
32.5°	351.3
35°	307.2
37.5°	268.4
40°	226.3
42.5°	174.6
45°	129.3
47.5°	79.8
50°	44.2
52.5°	34.5
55°	30.2
57.5°	26.9
60°	24.8
62.5°	21.6
65°	19.4
67.5°	17.2
70°	15.1
72.5°	14.0
75°	11.9
77.5°	9.7
80°	7.5
82.5°	5.4
85°	3.2
87.5°	1.1
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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(END OF REPORT)