

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: P640361

Luminaire Tested: ML5609LSNFL25D2W1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 594SNB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1097.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

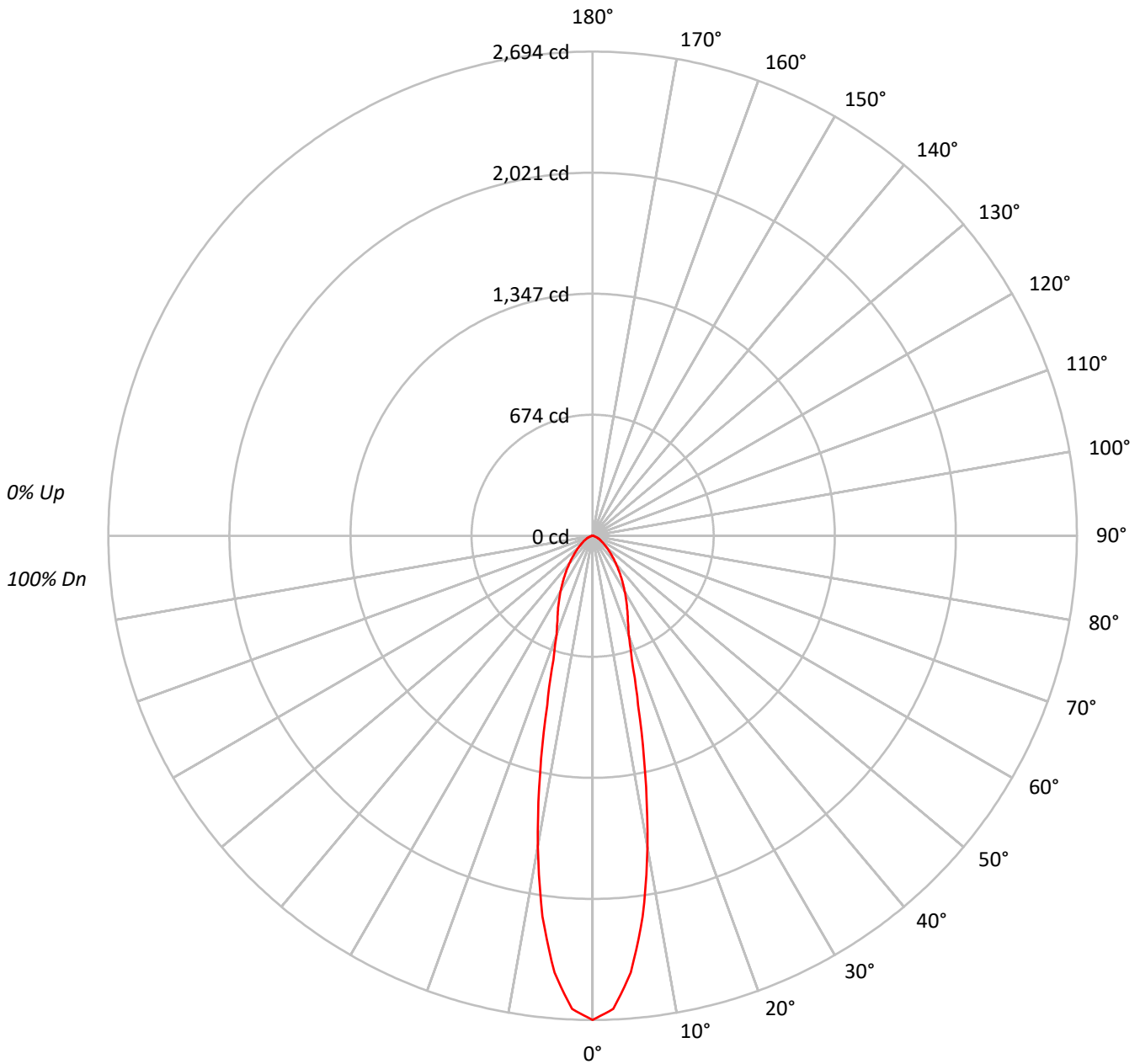
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212683
5°	193280
10°	140863
15°	79854
20°	49094
25°	39710
30°	32496
35°	26126
40°	20692
45°	16255
50°	12699
55°	9951
60°	7926
65°	6370
70°	4639
75°	2440
80°	1364
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	19.2
10°-20°	281.6	25.7
20°-30°	210.3	19.2
30°-40°	170.1	15.5
40°-50°	113.6	10.3
50°-60°	65.9	6.0
60°-70°	34.4	3.1
70°-80°	9.9	0.9
80°-90°	0.9	0.1
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°	702.7	64.0
0°-40°	872.8	79.5
0°-60°	1052.3	95.9
0°-90°	1097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2694	
5°	2439	211
15°	977	282
25°	456	210
35°	271	170
45°	146	114
55°	72	66
65°	34	34
75°	8	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2694.2
2.5°	2634.9
5°	2439.1
7.5°	2135.9
10°	1757.3
12.5°	1346.6
15°	977.1
17.5°	724.0
20°	584.4
22.5°	512.1
25°	455.9
27.5°	404.7
30°	356.5
32.5°	311.3
35°	271.1
37.5°	234.0
40°	200.8
42.5°	171.7
45°	145.6
47.5°	122.5
50°	103.4
52.5°	86.4
55°	72.3
57.5°	60.3
60°	50.2
62.5°	42.2
65°	34.1
67.5°	28.1
70°	20.1
72.5°	13.1
75°	8.0
77.5°	5.0
80°	3.0
82.5°	2.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)