

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: P640386

Luminaire Tested: ML5609LSNFL25D2W1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 694TBZB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1178.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

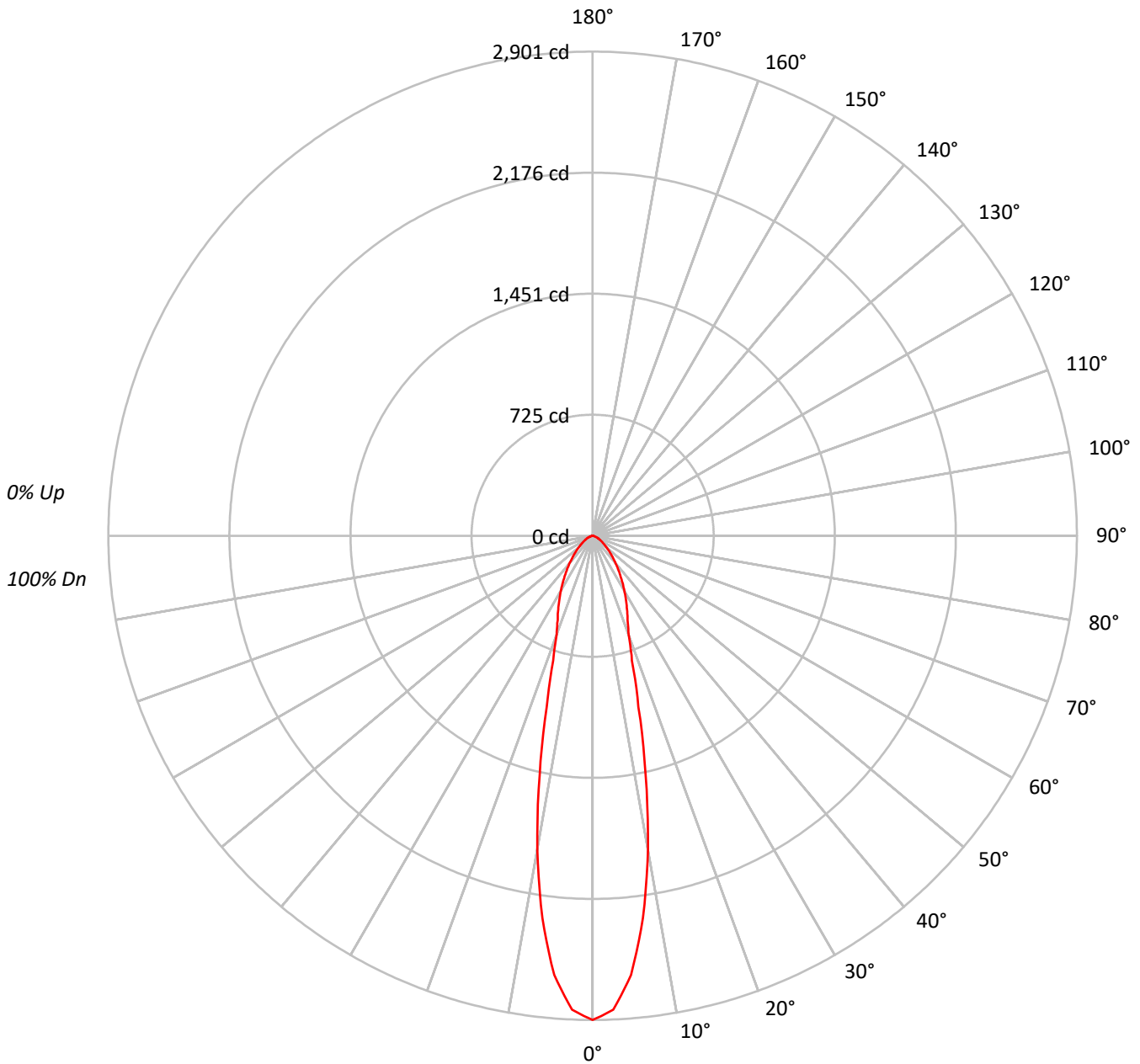
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			54
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	159039
5°	145350
10°	106160
15°	60205
20°	36730
25°	29475
30°	24023
35°	19260
40°	15279
45°	11955
50°	9288
55°	7312
60°	5789
65°	4761
70°	3462
75°	2055
80°	1010
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	19.4
10°-20°	305.6	25.9
20°-30°	224.9	19.1
30°-40°	181.0	15.4
40°-50°	120.3	10.2
50°-60°	69.6	5.9
60°-70°	36.6	3.1
70°-80°	10.9	0.9
80°-90°	1.0	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°	758.6	64.4
0°-40°	939.6	79.8
0°-60°	1129.5	95.9
0°-90°	1178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2901	
5°	2641	228
15°	1061	306
25°	487	225
35°	288	181
45°	154	120
55°	76	70
65°	37	37
75°	10	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2901.1
2.5°	2842.9
5°	2641.3
7.5°	2310.3
10°	1907.1
12.5°	1466.2
15°	1060.8
17.5°	783.8
20°	629.6
22.5°	547.7
25°	487.3
27.5°	432.3
30°	379.5
32.5°	332.1
35°	287.8
37.5°	249.0
40°	213.5
42.5°	181.1
45°	154.2
47.5°	130.4
50°	108.9
52.5°	91.6
55°	76.5
57.5°	63.6
60°	52.8
62.5°	44.2
65°	36.7
67.5°	30.2
70°	21.6
72.5°	14.0
75°	9.7
77.5°	5.4
80°	3.2
82.5°	2.2
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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