

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: P640387

Luminaire Tested: ML5609LSNFL25D2W1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 694WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

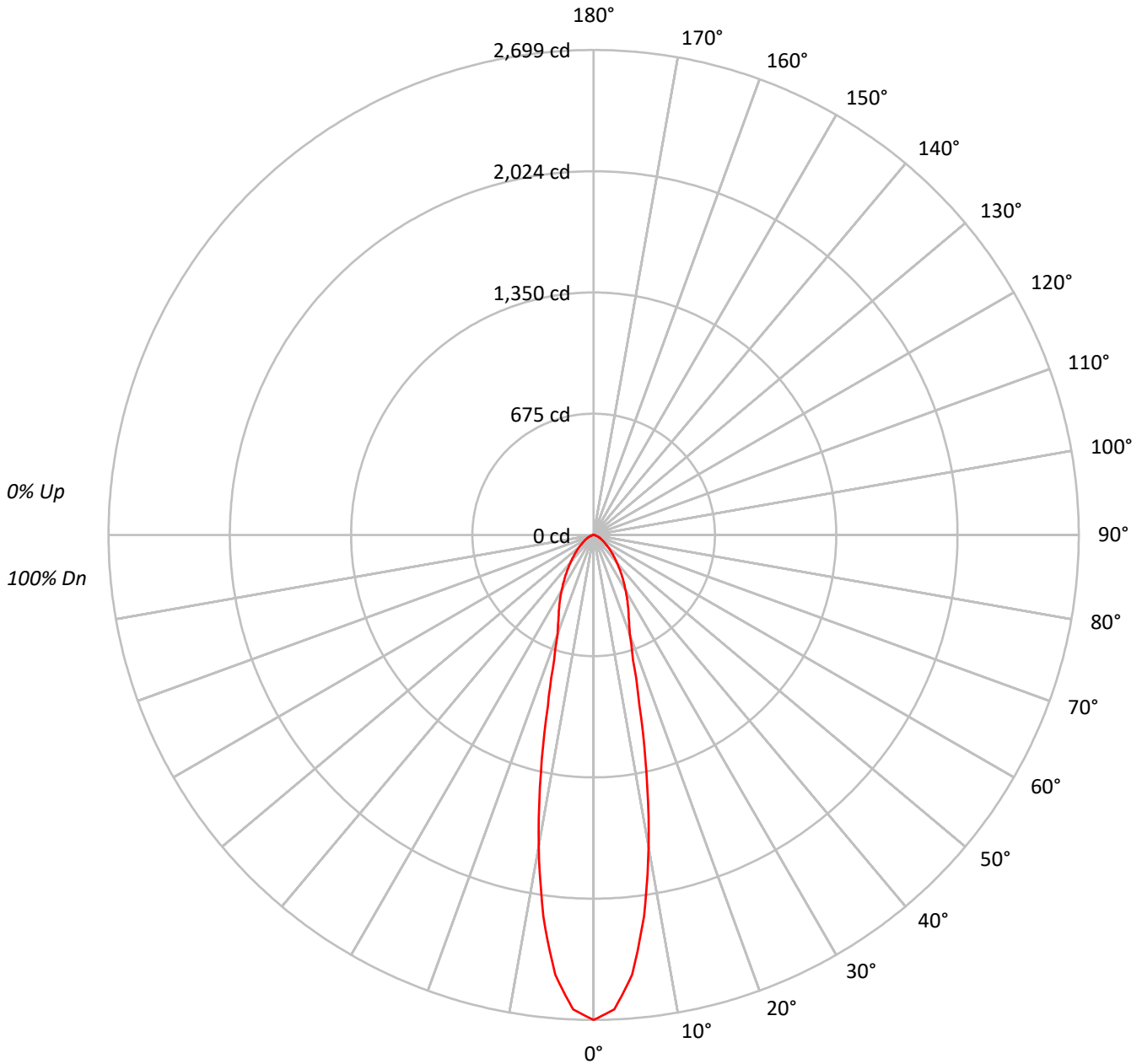
Lumens per Lamp: N/A
Luminaire Lumens: 1099.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147965
5°	135109
10°	98061
15°	55829
20°	34198
25°	27564
30°	22491
35°	18069
40°	14291
45°	11280
50°	8818
55°	6910
60°	5504
65°	4423
70°	3222
75°	1694
80°	1263
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	19.3
10°-20°	283.3	25.8
20°-30°	210.0	19.1
30°-40°	169.5	15.4
40°-50°	113.4	10.3
50°-60°	65.8	6.0
60°-70°	34.4	3.1
70°-80°	10.0	0.9
80°-90°	1.4	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°	704.9	64.1
0°-40°	874.4	79.5
0°-60°	1053.7	95.8
0°-90°	1099.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2699	
5°	2455	212
15°	984	283
25°	456	210
35°	270	170
45°	146	113
55°	72	66
65°	34	34
75°	8	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2699.1
2.5°	2642.9
5°	2455.2
7.5°	2142.0
10°	1761.6
12.5°	1357.1
15°	983.7
17.5°	728.7
20°	586.2
22.5°	510.9
25°	455.7
27.5°	403.5
30°	355.3
32.5°	311.2
35°	270.0
37.5°	232.9
40°	199.7
42.5°	171.6
45°	145.5
47.5°	122.5
50°	103.4
52.5°	86.3
55°	72.3
57.5°	60.2
60°	50.2
62.5°	42.2
65°	34.1
67.5°	28.1
70°	20.1
72.5°	13.0
75°	8.0
77.5°	5.0
80°	4.0
82.5°	2.0
85°	1.0
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)