

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: P640365

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 594WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

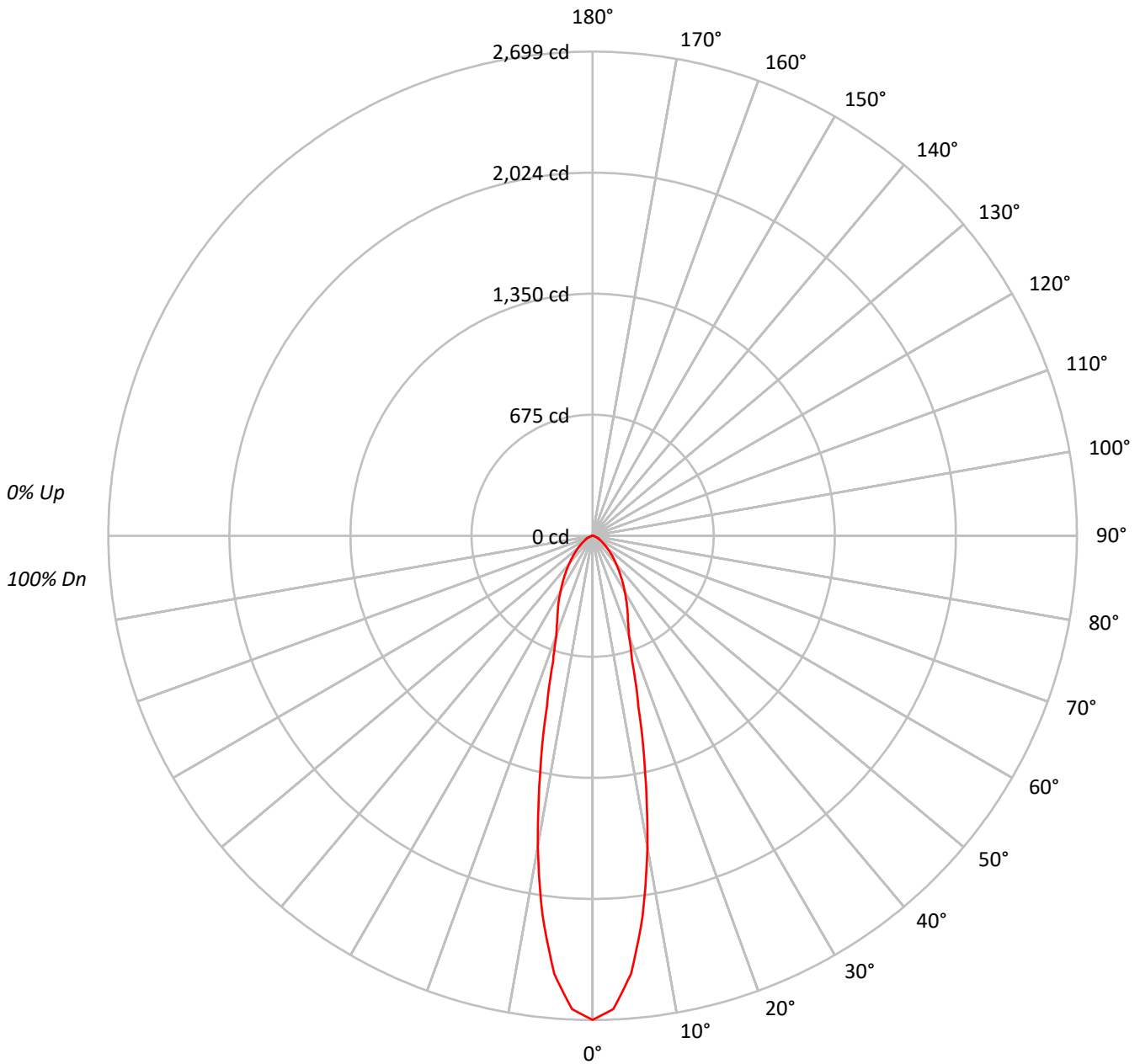
Lumens per Lamp: N/A
Luminaire Lumens: 1105.6 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63	63	63	63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56	56	56	56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54	54	54	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213046
5°	194199
10°	140895
15°	80443
20°	49699
25°	39980
30°	32596
35°	26232
40°	20909
45°	16478
50°	12834
55°	10088
60°	8084
65°	6575
70°	4639
75°	2440
80°	1818
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	19.1
10°-20°	283.3	25.6
20°-30°	211.5	19.1
30°-40°	171.2	15.5
40°-50°	115.0	10.4
50°-60°	66.8	6.0
60°-70°	35.1	3.2
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°	706.1	63.9
0°-40°	877.3	79.3
0°-60°	1059.1	95.8
0°-90°	1105.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2699	
5°	2451	211
15°	984	283
25°	459	212
35°	272	171
45°	148	115
55°	73	67
65°	35	35
75°	8	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2698.8
2.5°	2640.5
5°	2450.7
7.5°	2137.3
10°	1757.7
12.5°	1349.9
15°	984.3
17.5°	732.2
20°	591.6
22.5°	514.2
25°	459.0
27.5°	406.8
30°	357.6
32.5°	313.4
35°	272.2
37.5°	236.0
40°	202.9
42.5°	173.8
45°	147.6
47.5°	124.5
50°	104.5
52.5°	87.4
55°	73.3
57.5°	61.3
60°	51.2
62.5°	42.2
65°	35.2
67.5°	29.1
70°	20.1
72.5°	13.1
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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