

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: P640377

Luminaire Tested: ML5609LSNFL25D2W1E - 693BB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 693BB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

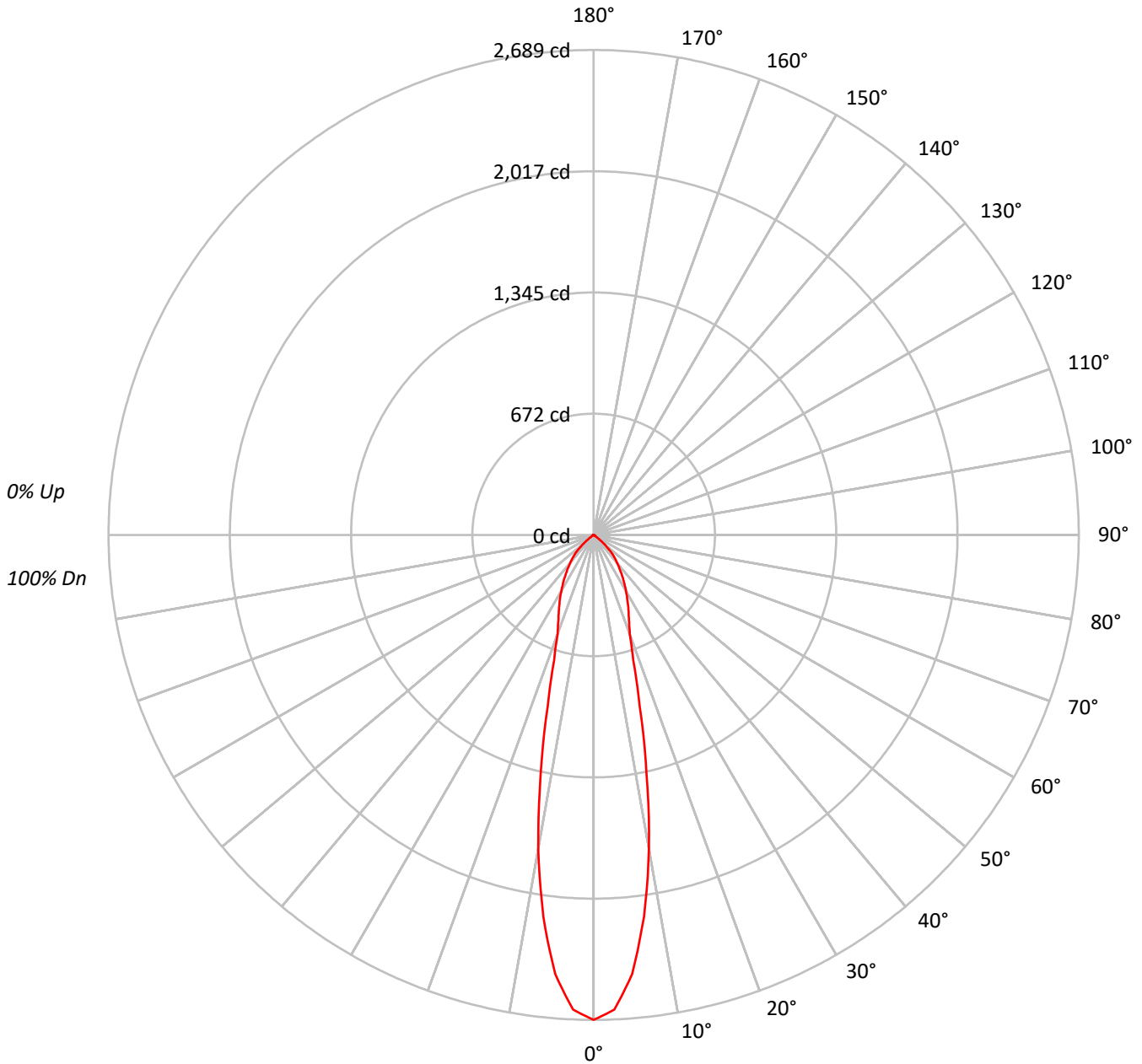
Lumens per Lamp: N/A
Luminaire Lumens: 1002.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			94	
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			88	
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82			82	
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77			77	
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73			73	
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69			69	
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			65	
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62			62	
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59			59	
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56			56	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147400
5°	134476
10°	98328
15°	55942
20°	34058
25°	27594
30°	22643
35°	18290
40°	14456
45°	10986
50°	5569
55°	1252
60°	767
65°	389
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	21.1
10°-20°	283.2	28.2
20°-30°	210.1	21.0
30°-40°	171.4	17.1
40°-50°	104.8	10.4
50°-60°	18.9	1.9
60°-70°	3.1	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	704.5	70.3
0°-40°	875.9	87.4
0°-60°	999.6	99.7
0°-90°	1002.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1002.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2689	
5°	2444	211
15°	986	283
25°	456	210
35°	273	171
45°	142	105
55°	13	19
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2688.8
2.5°	2634.6
5°	2443.7
7.5°	2135.2
10°	1766.4
12.5°	1355.5
15°	985.7
17.5°	727.5
20°	583.8
22.5°	509.4
25°	456.2
27.5°	404.9
30°	357.7
32.5°	314.5
35°	273.3
37.5°	236.1
40°	202.0
42.5°	171.8
45°	141.7
47.5°	101.5
50°	65.3
52.5°	28.1
55°	13.1
57.5°	9.0
60°	7.0
62.5°	5.0
65°	3.0
67.5°	1.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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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