

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: P641139

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641139
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: ML5612LSNFL2597FS1E - 693BB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

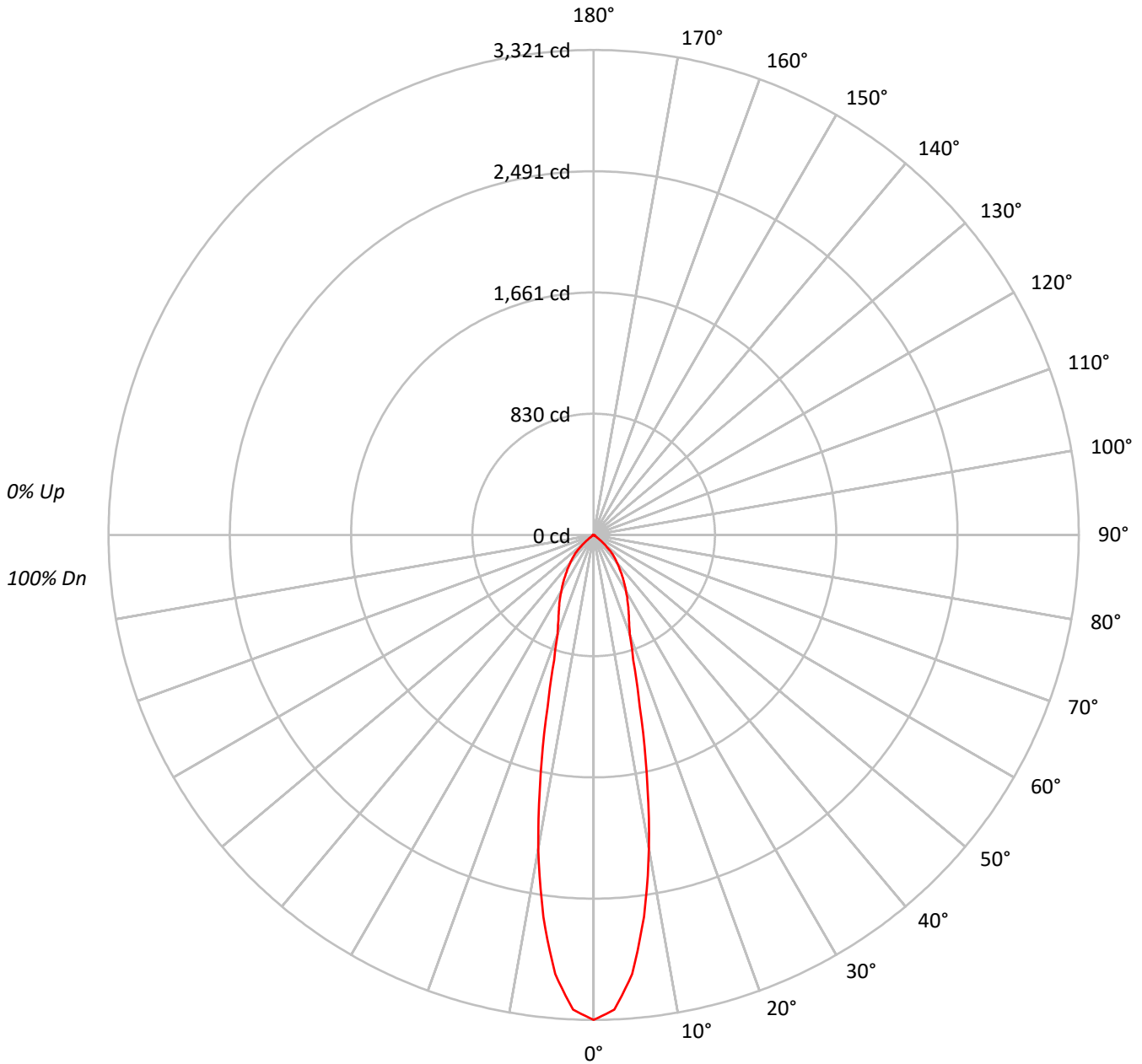
Lumens per Lamp: N/A
Luminaire Lumens: 1238.5 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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									
RC	80									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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65																			
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62																			
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59																			
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	182063
5°	166096
10°	121452
15°	69098
20°	42068
25°	34085
30°	27966
35°	22593
40°	17855
45°	13567
50°	6883
55°	1539
60°	954
65°	480
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13567 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	21.1
10°-20°	349.8	28.2
20°-30°	259.5	21.0
30°-40°	211.8	17.1
40°-50°	129.4	10.4
50°-60°	23.4	1.9
60°-70°	3.8	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°	870.1	70.3
0°-40°	1081.9	87.4
0°-60°	1234.7	99.7
0°-90°	1238.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3321	
5°	3018	261
15°	1218	350
25°	564	260
35°	338	212
45°	175	129
55°	16	23
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3321.1
2.5°	3254.1
5°	3018.3
7.5°	2637.3
10°	2181.8
12.5°	1674.2
15°	1217.5
17.5°	898.5
20°	721.1
22.5°	629.2
25°	563.5
27.5°	500.2
30°	441.8
32.5°	388.5
35°	337.6
37.5°	291.7
40°	249.5
42.5°	212.2
45°	175.0
47.5°	125.3
50°	80.7
52.5°	34.8
55°	16.1
57.5°	11.2
60°	8.7
62.5°	6.2
65°	3.7
67.5°	1.2
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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(END OF REPORT)