

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: P642874

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.8 lumens
Efficiency: N/A
Efficacy: 111.3 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

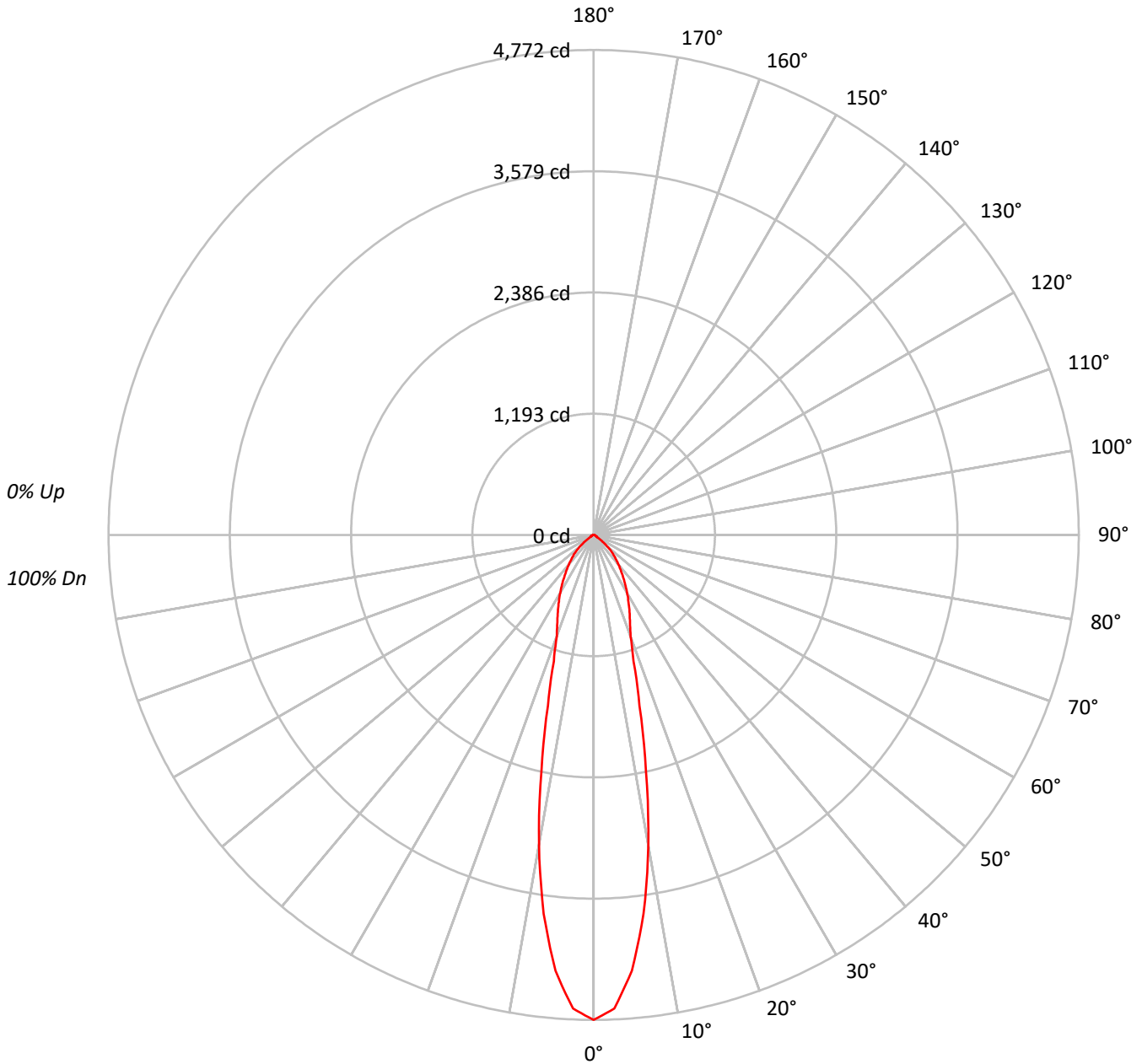
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100																
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80																
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			75																
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70			70																
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65			65																
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62			62																
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58			58																
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376722
5°	341170
10°	248460
15°	142333
20°	88972
25°	72695
30°	59951
35°	48560
40°	38994
45°	30991
50°	20841
55°	9496
60°	5305
65°	4950
70°	4085
75°	3782
80°	4001
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30991 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	19.5
10°-20°	501.4	26.3
20°-30°	384.1	20.2
30°-40°	316.4	16.6
40°-50°	211.8	11.1
50°-60°	73.5	3.9
60°-70°	25.6	1.3
70°-80°	13.8	0.7
80°-90°	5.1	0.3
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°	1257.6	66.1
0°-40°	1574.1	82.7
0°-60°	1859.4	97.7
0°-90°	1903.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4772	
5°	4305	372
15°	1742	501
25°	835	384
35°	504	316
45°	278	212
55°	69	74
65°	26	26
75°	12	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4772.2
2.5°	4664.4
5°	4305.4
7.5°	3760.8
10°	3099.6
12.5°	2376.4
15°	1741.6
17.5°	1303.1
20°	1059.1
22.5°	931.8
25°	834.6
27.5°	740.9
30°	657.7
32.5°	578.2
35°	503.9
37.5°	436.7
40°	378.4
42.5°	325.3
45°	277.6
47.5°	228.1
50°	169.7
52.5°	120.2
55°	69.0
57.5°	42.4
60°	33.6
62.5°	30.1
65°	26.5
67.5°	21.2
70°	17.7
72.5°	14.1
75°	12.4
77.5°	12.4
80°	8.8
82.5°	7.1
85°	5.3
87.5°	1.8
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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