

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: P642873

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642873
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 - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1769.3 lumens
Efficiency: N/A
Efficacy: 103.5 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

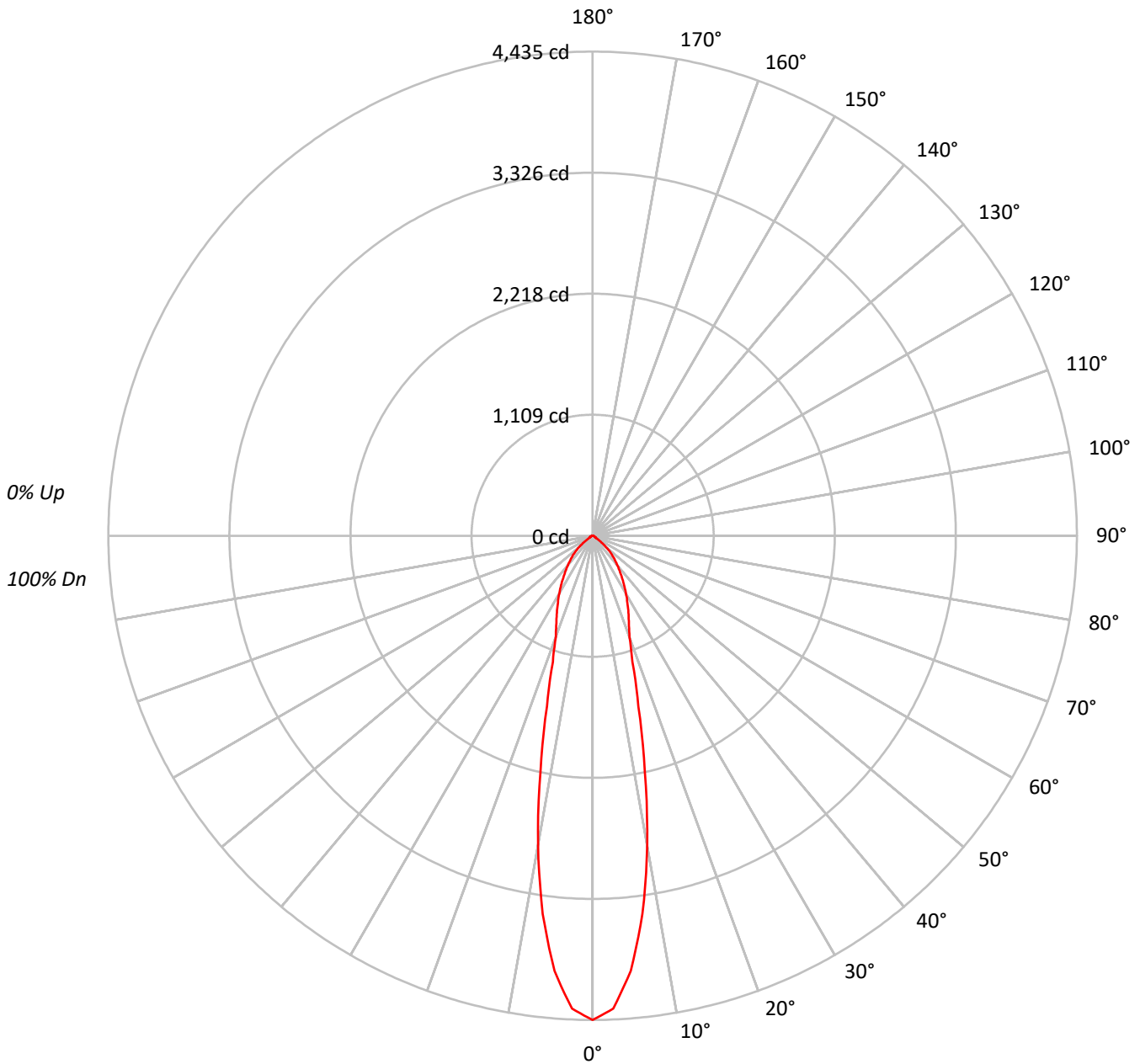
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70	70	70	70
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65	65	65	65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58	58	58	58
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	350127
5°	317089
10°	230913
15°	132289
20°	82688
25°	67556
30°	55722
35°	45130
40°	36243
45°	28803
50°	19379
55°	8822
60°	4926
65°	4595
70°	3785
75°	3508
80°	3728
85°	4438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	19.5
10°-20°	466.0	26.3
20°-30°	357.0	20.2
30°-40°	294.1	16.6
40°-50°	196.9	11.1
50°-60°	68.3	3.9
60°-70°	23.7	1.3
70°-80°	12.8	0.7
80°-90°	4.7	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°	1168.8	66.1
0°-40°	1462.9	82.7
0°-60°	1728.1	97.7
0°-90°	1769.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4435	
5°	4002	346
15°	1619	466
25°	776	357
35°	468	294
45°	258	197
55°	64	68
65°	25	24
75°	12	13
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4435.3
2.5°	4335.1
5°	4001.5
7.5°	3495.3
10°	2880.7
12.5°	2208.6
15°	1618.7
17.5°	1211.1
20°	984.3
22.5°	866.0
25°	775.6
27.5°	688.5
30°	611.3
32.5°	537.4
35°	468.3
37.5°	405.9
40°	351.7
42.5°	302.4
45°	258.0
47.5°	212.0
50°	157.8
52.5°	111.7
55°	64.1
57.5°	39.4
60°	31.2
62.5°	27.9
65°	24.6
67.5°	19.7
70°	16.4
72.5°	13.1
75°	11.5
77.5°	11.5
80°	8.2
82.5°	6.6
85°	4.9
87.5°	1.6
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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