

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: P642886

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 691WB - 1500LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.1 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

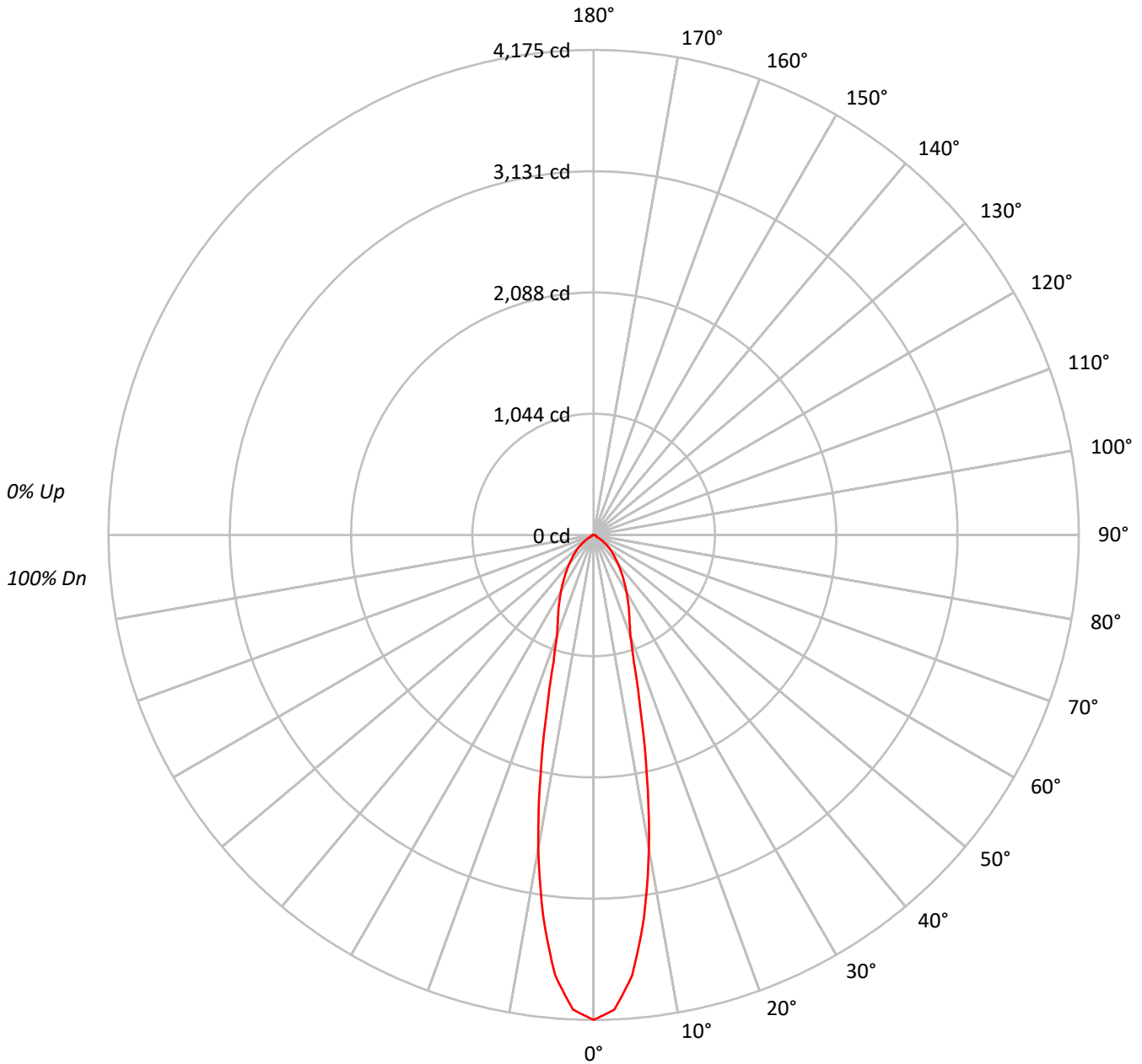
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55																			
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	228858
5°	209454
10°	152591
15°	87713
20°	53701
25°	43448
30°	35626
35°	29031
40°	23365
45°	18684
50°	14720
55°	9510
60°	3750
65°	2828
70°	2244
75°	1970
80°	1957
85°	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18684 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	19.5
10°-20°	443.1	26.3
20°-30°	331.0	19.6
30°-40°	272.1	16.1
40°-50°	187.6	11.1
50°-60°	89.9	5.3
60°-70°	21.7	1.3
70°-80°	10.0	0.6
80°-90°	3.4	0.2
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°	1102.4	65.3
0°-40°	1374.4	81.5
0°-60°	1651.9	97.9
0°-90°	1687.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4175	
5°	3806	328
15°	1546	443
25°	718	331
35°	434	272
45°	241	188
55°	100	90
65°	22	22
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4174.7
2.5°	4090.7
5°	3806.2
7.5°	3319.5
10°	2741.2
12.5°	2113.0
15°	1545.5
17.5°	1144.3
20°	920.5
22.5°	803.8
25°	718.3
27.5°	637.5
30°	562.8
32.5°	494.4
35°	433.8
37.5°	377.8
40°	326.5
42.5°	281.4
45°	241.0
47.5°	205.2
50°	172.6
52.5°	139.9
55°	99.5
57.5°	63.7
60°	34.2
62.5°	24.9
65°	21.8
67.5°	17.1
70°	14.0
72.5°	10.9
75°	9.3
77.5°	7.8
80°	6.2
82.5°	4.7
85°	3.1
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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(END OF REPORT)