

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: P642858

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594WB - 1500LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1808.9 lumens
Efficiency: N/A
Efficacy: 105.8 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

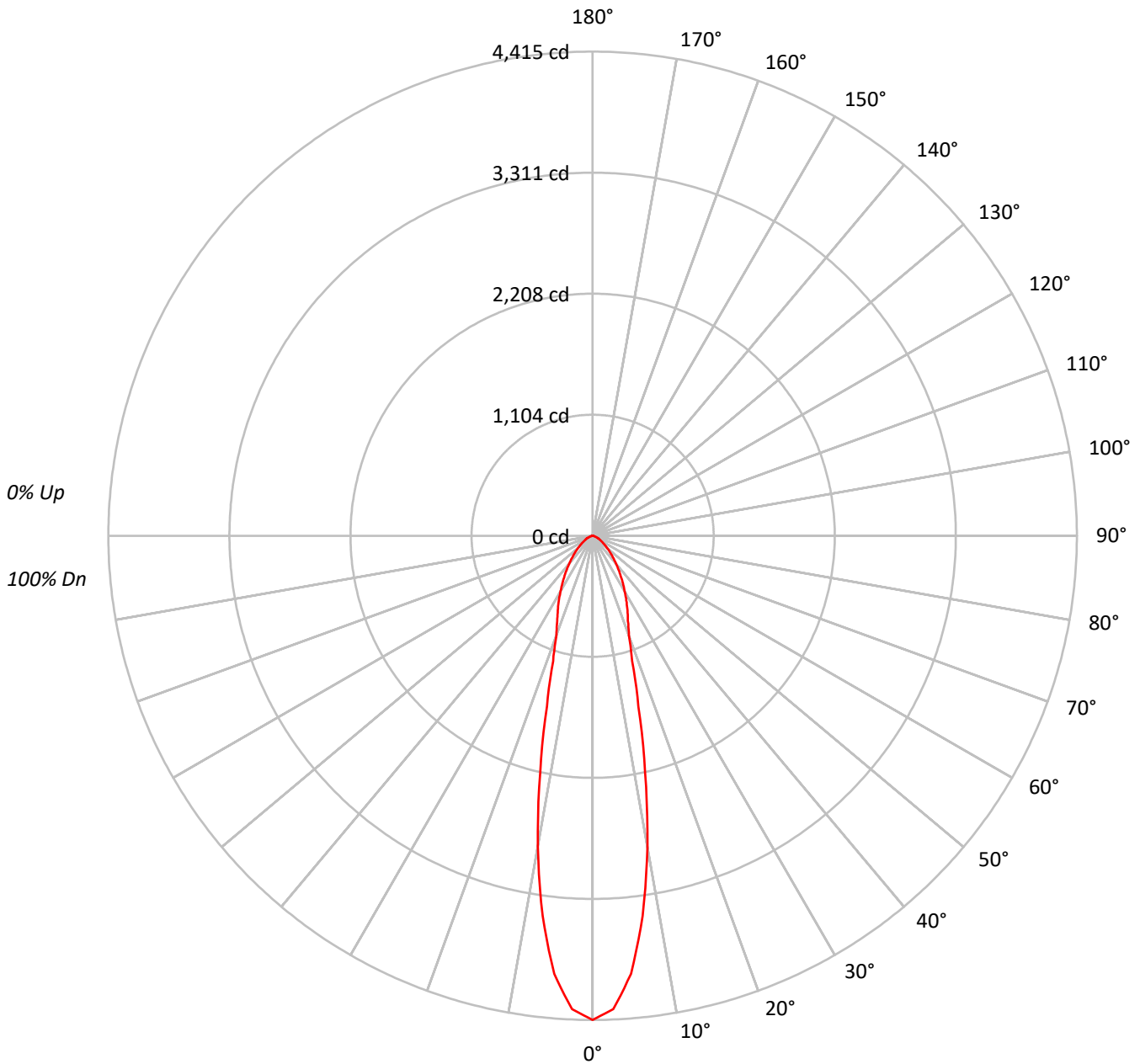
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	348548
5°	317723
10°	230504
15°	131611
20°	81311
25°	65413
30°	53325
35°	42913
40°	34202
45°	26972
50°	20988
55°	16516
60°	13230
65°	10740
70°	7594
75°	3996
80°	3000
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	19.1
10°-20°	463.5	25.6
20°-30°	346.1	19.1
30°-40°	280.0	15.5
40°-50°	188.2	10.4
50°-60°	109.3	6.0
60°-70°	57.4	3.2
70°-80°	16.4	0.9
80°-90°	2.2	0.1
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°	1155.3	63.9
0°-40°	1435.3	79.3
0°-60°	1732.8	95.8
0°-90°	1808.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1808.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4415	
5°	4010	346
15°	1610	464
25°	751	346
35°	445	280
45°	242	188
55°	120	109
65°	58	57
75°	13	16
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4415.3
2.5°	4320.0
5°	4009.5
7.5°	3496.8
10°	2875.6
12.5°	2208.5
15°	1610.4
17.5°	1197.9
20°	967.9
22.5°	841.3
25°	751.0
27.5°	665.5
30°	585.0
32.5°	512.7
35°	445.3
37.5°	386.2
40°	331.9
42.5°	284.3
45°	241.6
47.5°	203.8
50°	170.9
52.5°	143.0
55°	120.0
57.5°	100.2
60°	83.8
62.5°	69.0
65°	57.5
67.5°	47.7
70°	32.9
72.5°	21.4
75°	13.1
77.5°	8.2
80°	6.6
82.5°	3.3
85°	1.6
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)