

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: P642862

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642862
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 - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1132.5 lumens
Efficiency: N/A
Efficacy: 107.9 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

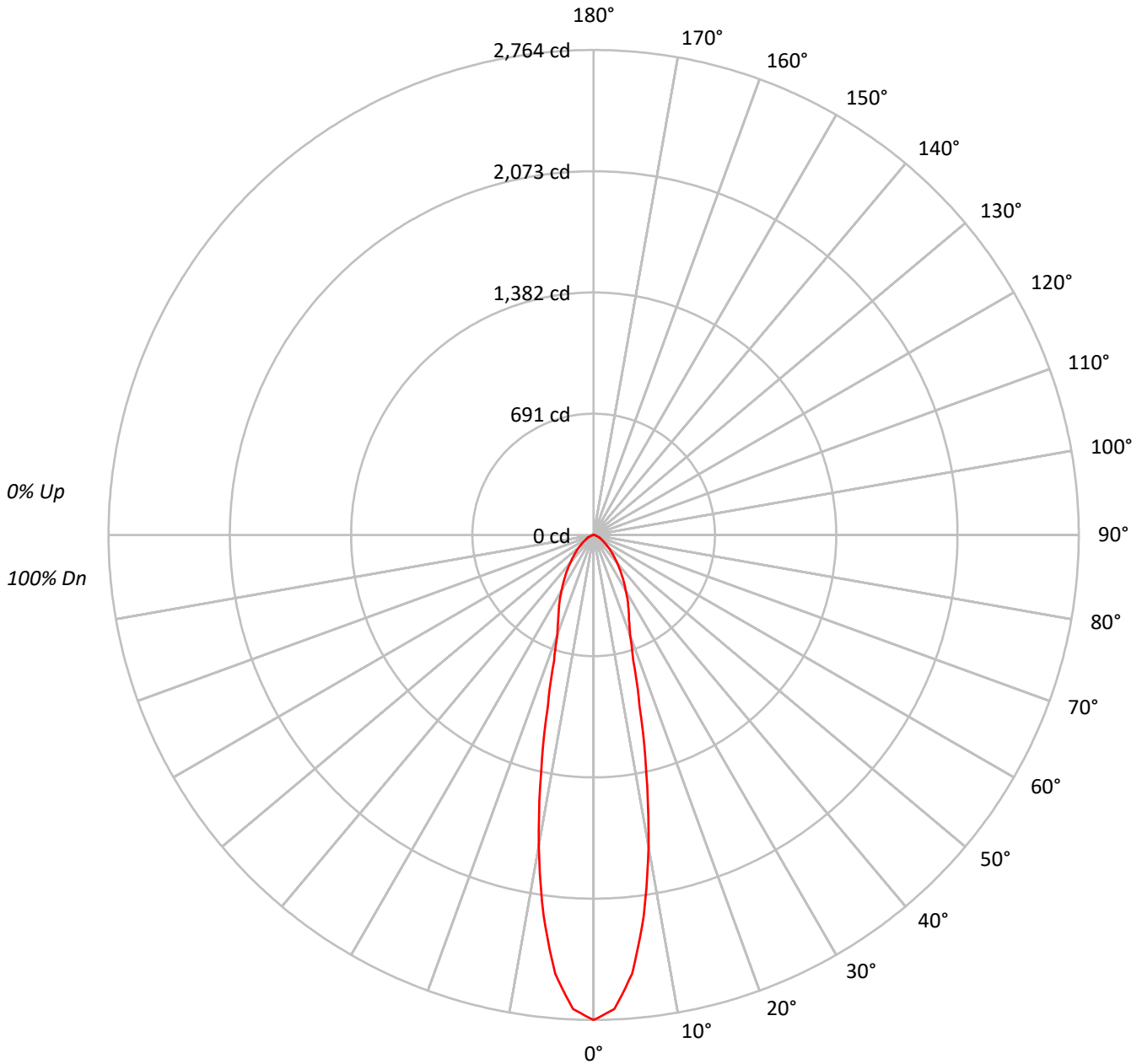
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	218224
5°	198914
10°	144318
15°	82396
20°	50908
25°	40955
30°	33380
35°	26868
40°	21414
45°	16880
50°	13141
55°	10336
60°	8289
65°	6724
70°	4755
75°	2501
80°	1864
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	19.1
10°-20°	290.2	25.6
20°-30°	216.7	19.1
30°-40°	175.3	15.5
40°-50°	117.8	10.4
50°-60°	68.4	6.0
60°-70°	35.9	3.2
70°-80°	10.3	0.9
80°-90°	1.4	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°	723.3	63.9
0°-40°	898.6	79.3
0°-60°	1084.9	95.8
0°-90°	1132.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2764	
5°	2510	216
15°	1008	290
25°	470	217
35°	279	175
45°	151	118
55°	75	68
65°	36	36
75°	8	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2764.4
2.5°	2704.7
5°	2510.2
7.5°	2189.3
10°	1800.4
12.5°	1382.7
15°	1008.2
17.5°	750.0
20°	606.0
22.5°	526.7
25°	470.2
27.5°	416.7
30°	366.2
32.5°	321.0
35°	278.8
37.5°	241.8
40°	207.8
42.5°	178.0
45°	151.2
47.5°	127.6
50°	107.0
52.5°	89.5
55°	75.1
57.5°	62.8
60°	52.5
62.5°	43.2
65°	36.0
67.5°	29.8
70°	20.6
72.5°	13.4
75°	8.2
77.5°	5.1
80°	4.1
82.5°	2.1
85°	1.0
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)