

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: P642968

Luminaire Tested: ML5615LSNFL259FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 693SNB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

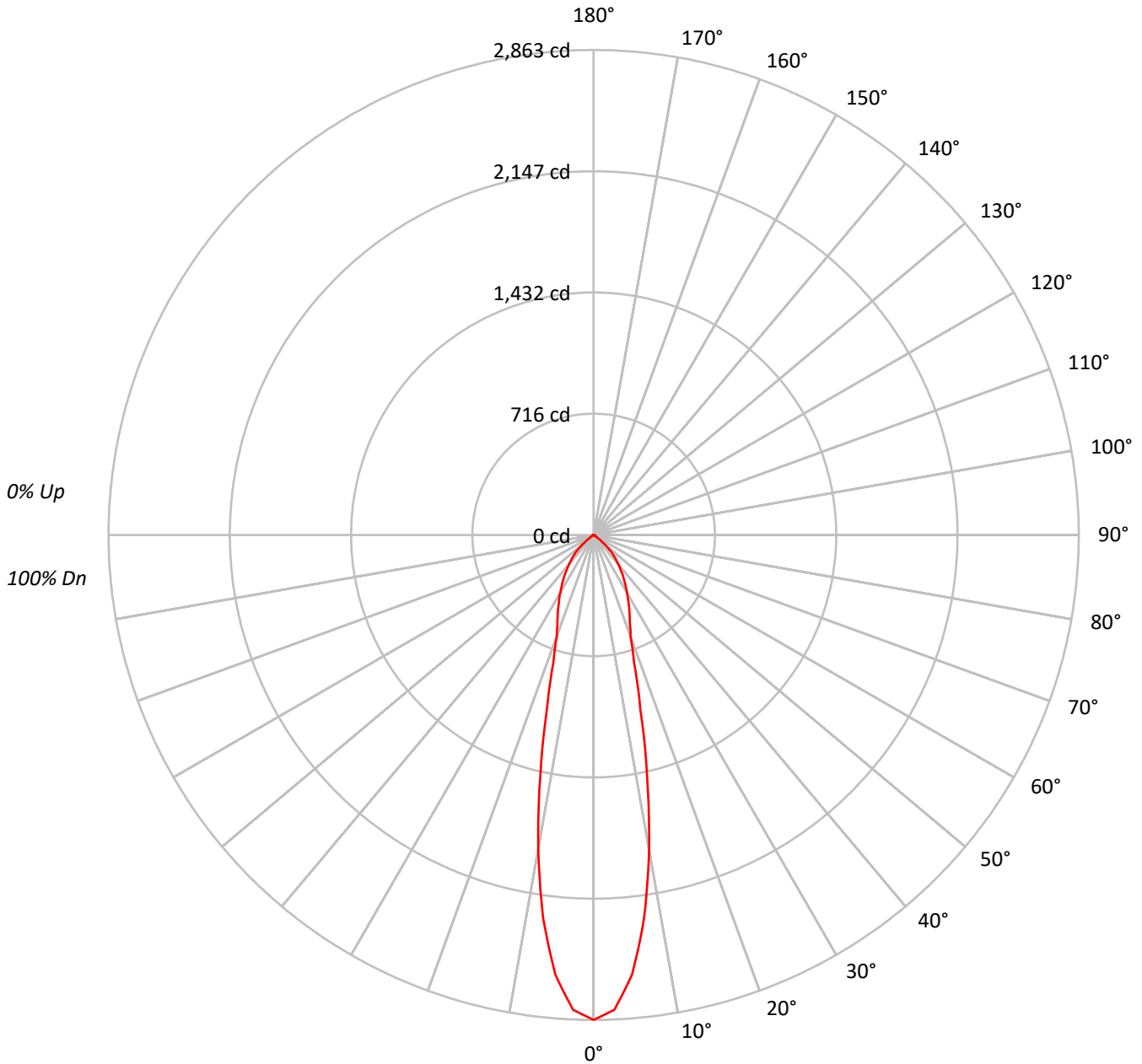
Lumens per Lamp: N/A
Luminaire Lumens: 1099.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64																			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61																			
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58																			
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156939
5°	143247
10°	104869
15°	60415
20°	37150
25°	30213
30°	24934
35°	20425
40°	16245
45°	12528
50°	6661
55°	1720
60°	1042
65°	545
70°	176
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	20.5
10°-20°	305.3	27.8
20°-30°	230.2	20.9
30°-40°	190.5	17.3
40°-50°	119.2	10.8
50°-60°	24.5	2.2
60°-70°	4.4	0.4
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	760.7	69.2
0°-40°	951.2	86.5
0°-60°	1094.8	99.5
0°-90°	1099.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2863	
5°	2603	225
15°	1064	305
25°	500	230
35°	305	190
45°	162	119
55°	18	24
65°	4	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2862.8
2.5°	2805.8
5°	2603.1
7.5°	2281.0
10°	1883.9
12.5°	1453.1
15°	1064.5
17.5°	791.0
20°	636.8
22.5°	557.6
25°	499.5
27.5°	444.6
30°	393.9
32.5°	347.4
35°	305.2
37.5°	262.9
40°	227.0
42.5°	192.2
45°	161.6
47.5°	117.2
50°	78.1
52.5°	37.0
55°	18.0
57.5°	12.7
60°	9.5
62.5°	6.3
65°	4.2
67.5°	2.1
70°	1.1
72.5°	1.1
75°	0.0
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
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)