

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: P643043

Luminaire Tested: ML5615LSNFL259FS1E - 696WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 696WB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

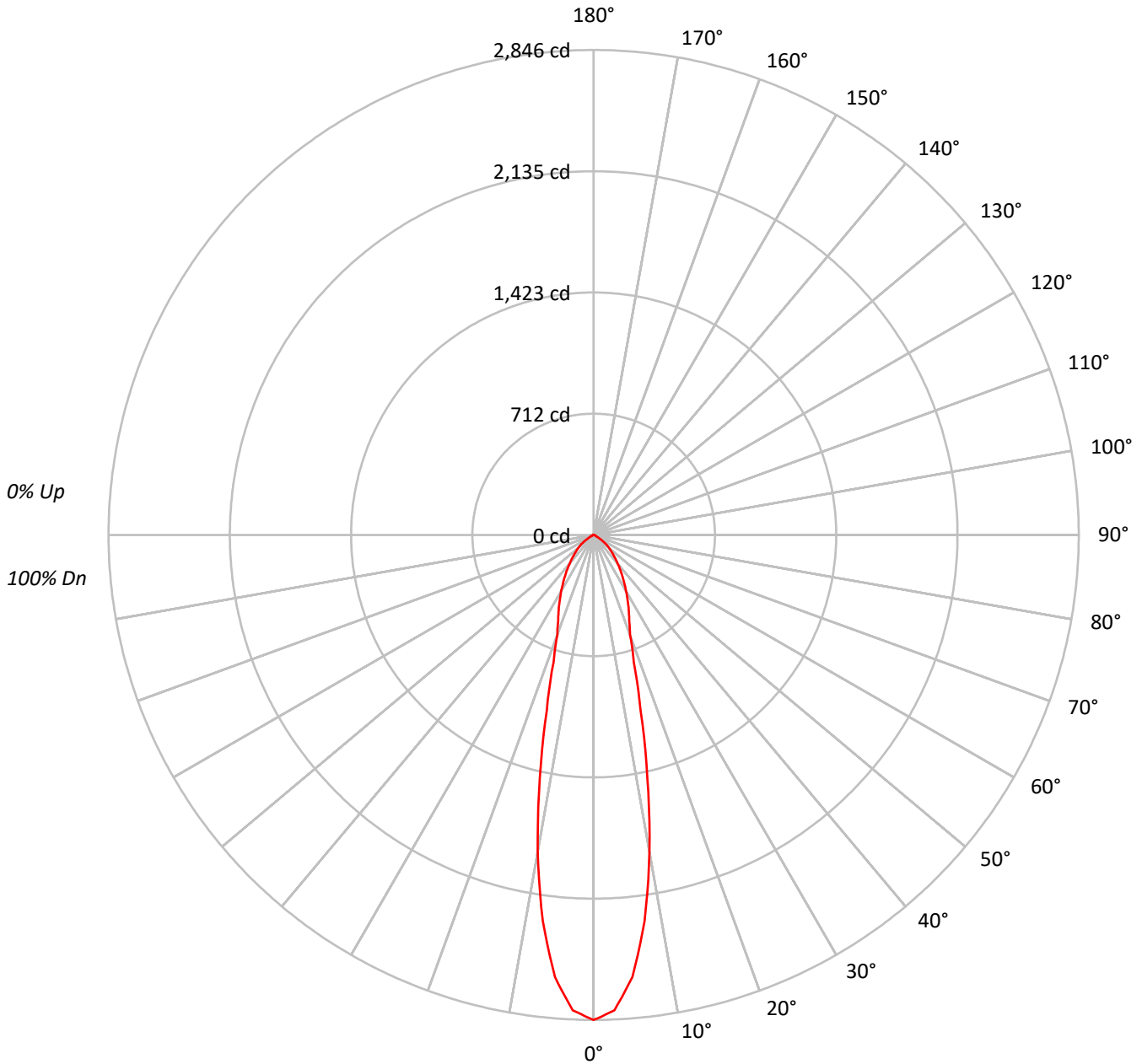
Lumens per Lamp: N/A
Luminaire Lumens: 1148.5 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156046
5°	143330
10°	105069
15°	60364
20°	36415
25°	29391
30°	24067
35°	19508
40°	15644
45°	12443
50°	9816
55°	6862
60°	3015
65°	1777
70°	1346
75°	1123
80°	1010
85°	1321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	19.6
10°-20°	304.3	26.5
20°-30°	224.0	19.5
30°-40°	183.1	15.9
40°-50°	125.1	10.9
50°-60°	63.8	5.6
60°-70°	15.1	1.3
70°-80°	5.7	0.5
80°-90°	2.2	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°	753.6	65.6
0°-40°	936.7	81.6
0°-60°	1125.5	98.0
0°-90°	1148.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2846	
5°	2605	225
15°	1064	304
25°	486	224
35°	292	183
45°	160	125
55°	72	64
65°	14	15
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2846.5
2.5°	2792.6
5°	2604.6
7.5°	2285.7
10°	1887.5
12.5°	1456.5
15°	1063.6
17.5°	782.7
20°	624.2
22.5°	545.0
25°	485.9
27.5°	430.9
30°	380.2
32.5°	333.8
35°	291.5
37.5°	253.5
40°	218.6
42.5°	188.0
45°	160.5
47.5°	136.3
50°	115.1
52.5°	96.1
55°	71.8
57.5°	48.6
60°	27.5
62.5°	18.0
65°	13.7
67.5°	11.6
70°	8.4
72.5°	6.3
75°	5.3
77.5°	4.2
80°	3.2
82.5°	3.2
85°	2.1
87.5°	1.1
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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