

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: P643040

Luminaire Tested: ML5615LSNFL259FS1E - 696WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643040
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 - 1500LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

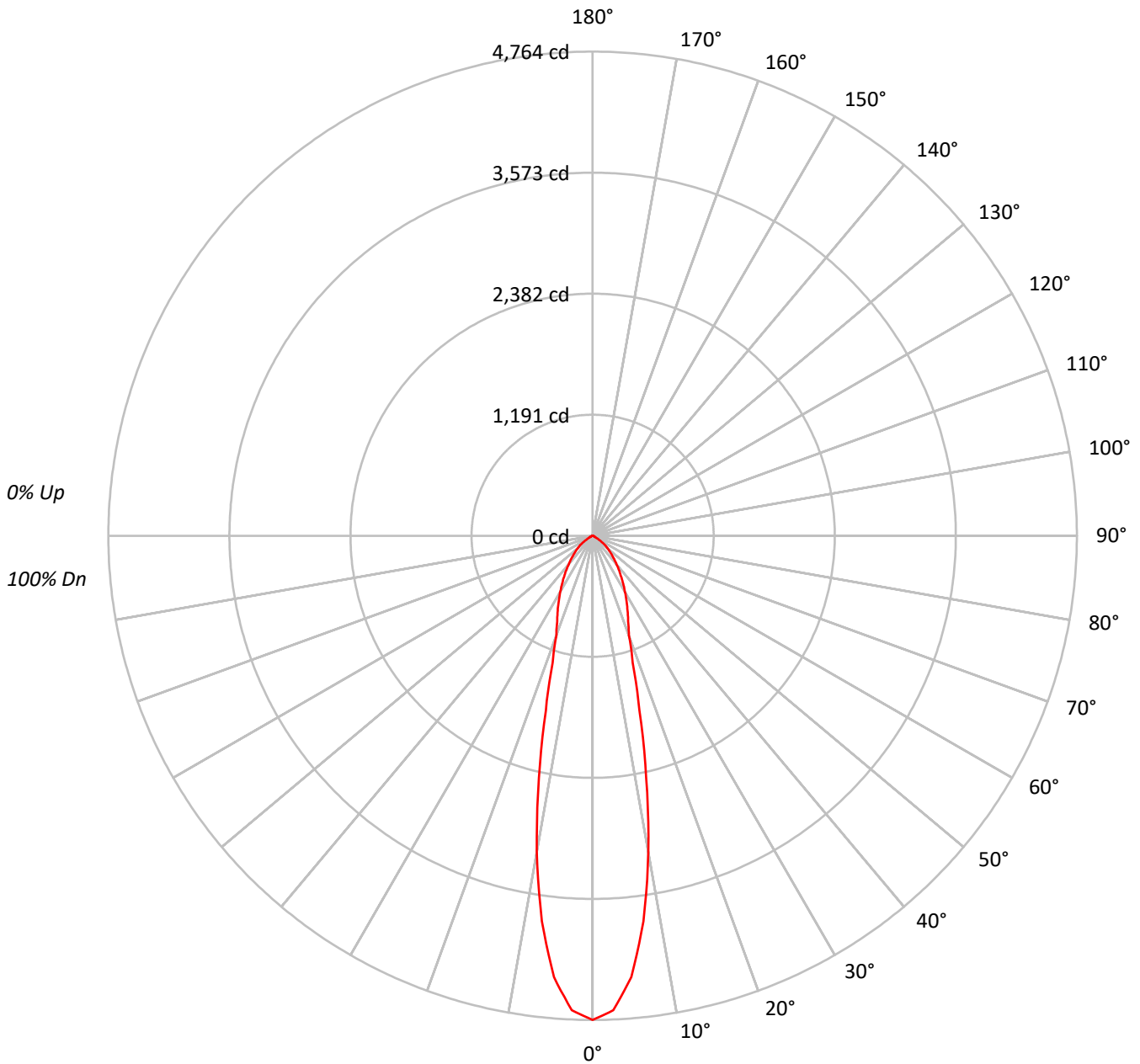
Lumens per Lamp: N/A
Luminaire Lumens: 1922.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	106	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	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80																			
4	97	89	83	79	95	88	83	79	86	81	78	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	70	67	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	69	63	60	68	63	60	67	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55																			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	261169
5°	239890
10°	175848
15°	101028
20°	60946
25°	49188
30°	40285
35°	32652
40°	26185
45°	20832
50°	16434
55°	11488
60°	5043
65°	2983
70°	2260
75°	1864
80°	1673
85°	2201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20832 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	19.6
10°-20°	509.3	26.5
20°-30°	375.0	19.5
30°-40°	306.4	15.9
40°-50°	209.3	10.9
50°-60°	106.8	5.6
60°-70°	25.3	1.3
70°-80°	9.5	0.5
80°-90°	3.6	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°	1261.3	65.6
0°-40°	1567.7	81.6
0°-60°	1883.8	98.0
0°-90°	1922.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4764	
5°	4359	377
15°	1780	509
25°	813	375
35°	488	306
45°	269	209
55°	120	107
65°	23	25
75°	9	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4764.1
2.5°	4673.9
5°	4359.3
7.5°	3825.4
10°	3159.0
12.5°	2437.7
15°	1780.1
17.5°	1309.9
20°	1044.7
22.5°	912.2
25°	813.2
27.5°	721.2
30°	636.4
32.5°	558.6
35°	487.9
37.5°	424.3
40°	365.9
42.5°	314.7
45°	268.7
47.5°	228.0
50°	192.7
52.5°	160.9
55°	120.2
57.5°	81.3
60°	46.0
62.5°	30.1
65°	23.0
67.5°	19.4
70°	14.1
72.5°	10.6
75°	8.8
77.5°	7.1
80°	5.3
82.5°	5.3
85°	3.5
87.5°	1.8
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)