

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: P643038

Luminaire Tested: ML5615LSNFL259FS1E - 696WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643038
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 - 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

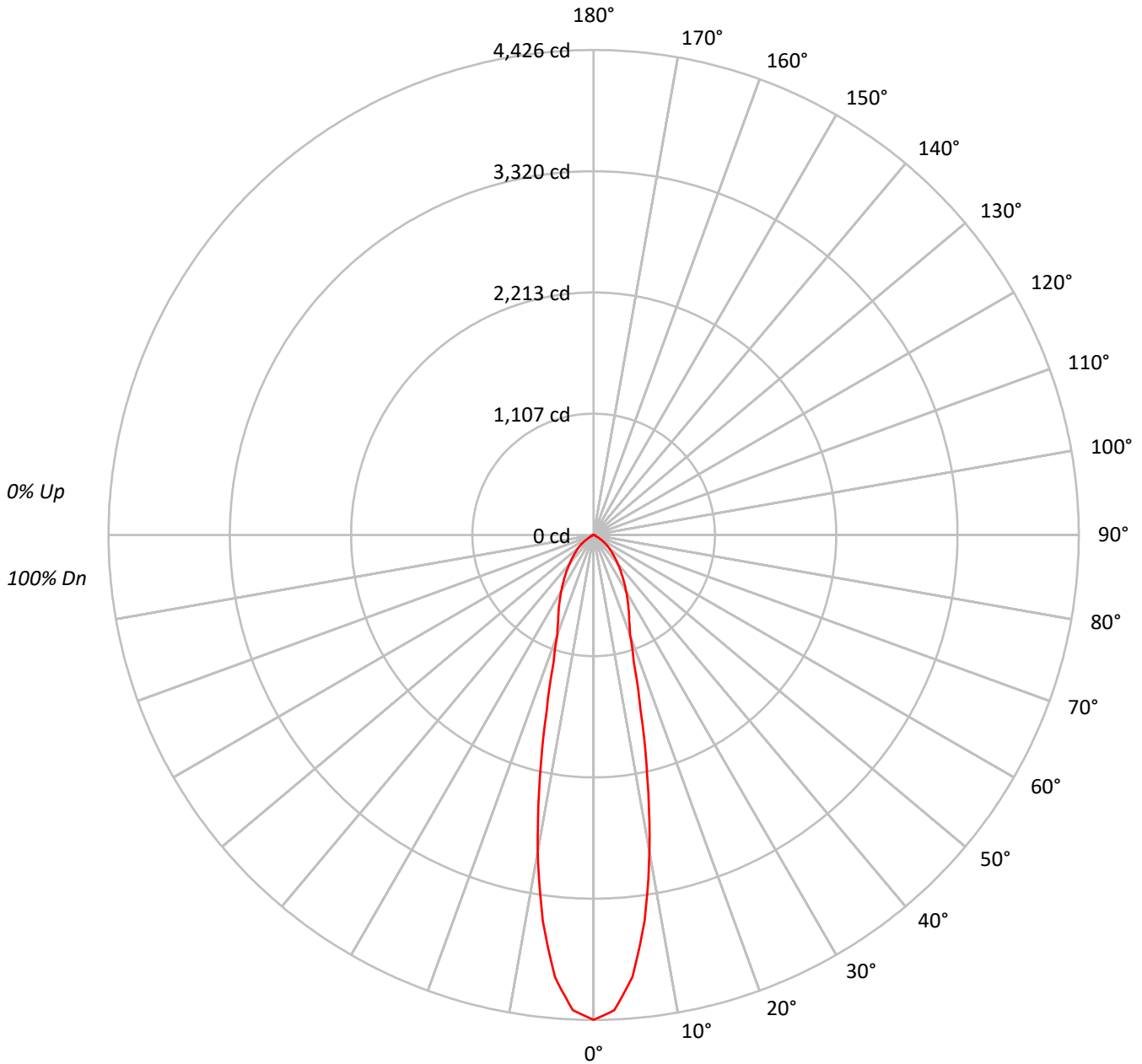
Lumens per Lamp: N/A
Luminaire Lumens: 1785.8 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			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°	242640
5°	222870
10°	163368
15°	93860
20°	56623
25°	45698
30°	37423
35°	30336
40°	24331
45°	19351
50°	15266
55°	10676
60°	4682
65°	2776
70°	2100
75°	1737
80°	1547
85°	2076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19351 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	19.6
10°-20°	473.2	26.5
20°-30°	348.4	19.5
30°-40°	284.7	15.9
40°-50°	194.5	10.9
50°-60°	99.2	5.6
60°-70°	23.5	1.3
70°-80°	8.9	0.5
80°-90°	3.3	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°	1171.8	65.6
0°-40°	1456.5	81.6
0°-60°	1750.1	98.0
0°-90°	1785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4426	
5°	4050	350
15°	1654	473
25°	756	348
35°	453	285
45°	250	194
55°	112	99
65°	21	23
75°	8	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4426.1
2.5°	4342.3
5°	4050.0
7.5°	3554.0
10°	2934.8
12.5°	2264.8
15°	1653.8
17.5°	1217.0
20°	970.6
22.5°	847.4
25°	755.5
27.5°	670.1
30°	591.2
32.5°	519.0
35°	453.3
37.5°	394.2
40°	340.0
42.5°	292.3
45°	249.6
47.5°	211.9
50°	179.0
52.5°	149.5
55°	111.7
57.5°	75.5
60°	42.7
62.5°	27.9
65°	21.4
67.5°	18.1
70°	13.1
72.5°	9.9
75°	8.2
77.5°	6.6
80°	4.9
82.5°	4.9
85°	3.3
87.5°	1.6
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)