

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: P642872

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 1500LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

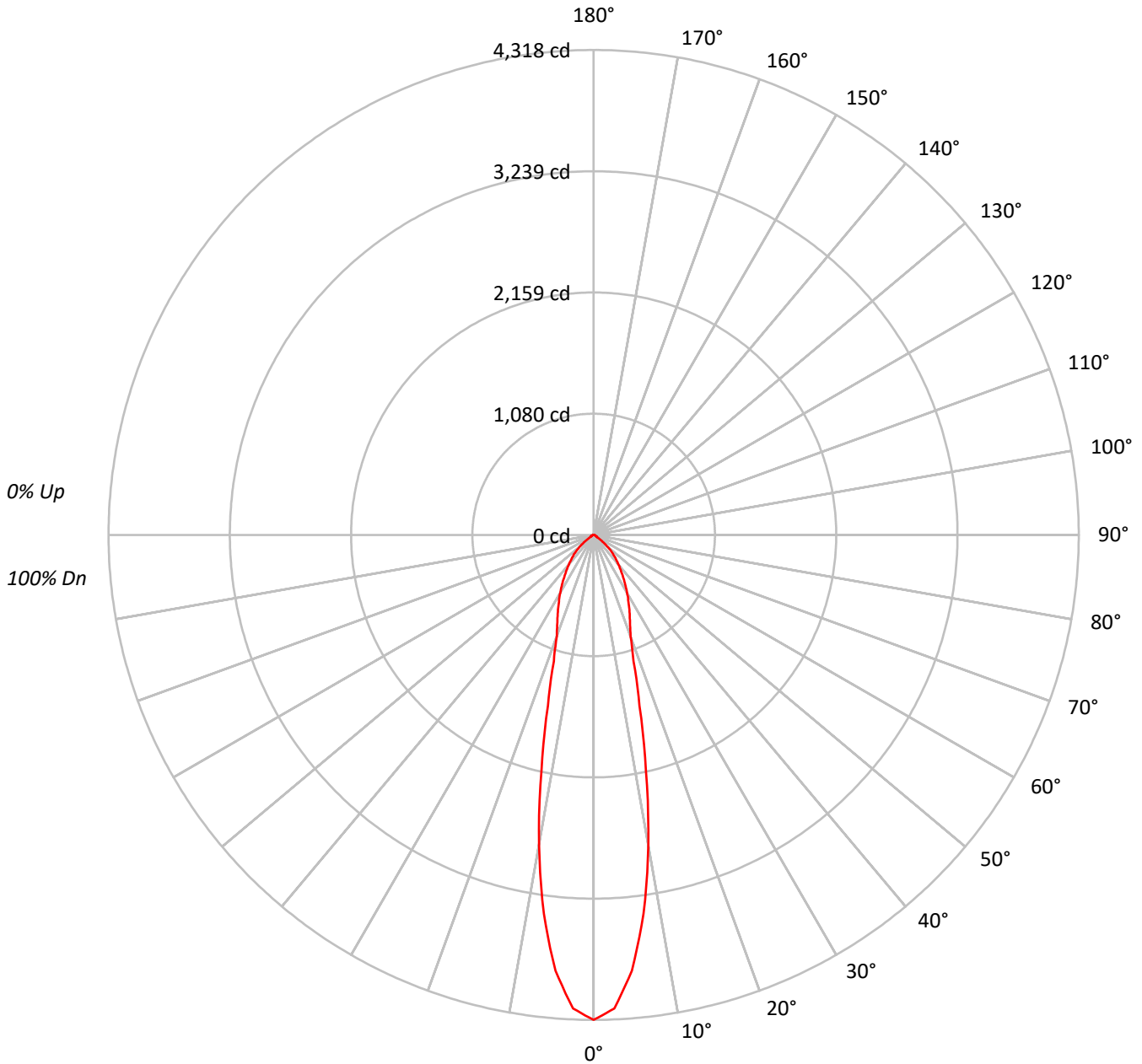
Lumens per Lamp: N/A
Luminaire Lumens: 1722.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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	105	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	86	91	87	84	89	86	83	87	84	82	80				80															
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75				75															
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70				70															
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65				65															
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62				62															
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58				58															
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55															
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	340851
5°	308681
10°	224797
15°	128783
20°	80504
25°	65770
30°	54245
35°	43935
40°	35284
45°	28044
50°	18864
55°	8588
60°	4800
65°	4483
70°	3693
75°	3416
80°	3637
85°	4348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	19.5
10°-20°	453.7	26.3
20°-30°	347.6	20.2
30°-40°	286.3	16.6
40°-50°	191.7	11.1
50°-60°	66.5	3.9
60°-70°	23.1	1.3
70°-80°	12.5	0.7
80°-90°	4.6	0.3
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°	1137.9	66.1
0°-40°	1424.2	82.7
0°-60°	1682.4	97.7
0°-90°	1722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4318	
5°	3895	337
15°	1576	454
25°	755	348
35°	456	286
45°	251	192
55°	62	67
65°	24	23
75°	11	12
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4317.8
2.5°	4220.2
5°	3895.4
7.5°	3402.7
10°	2804.4
12.5°	2150.1
15°	1575.8
17.5°	1179.0
20°	958.3
22.5°	843.1
25°	755.1
27.5°	670.3
30°	595.1
32.5°	523.1
35°	455.9
37.5°	395.1
40°	342.4
42.5°	294.4
45°	251.2
47.5°	206.4
50°	153.6
52.5°	108.8
55°	62.4
57.5°	38.4
60°	30.4
62.5°	27.2
65°	24.0
67.5°	19.2
70°	16.0
72.5°	12.8
75°	11.2
77.5°	11.2
80°	8.0
82.5°	6.4
85°	4.8
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)