

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: P642875

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642875
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

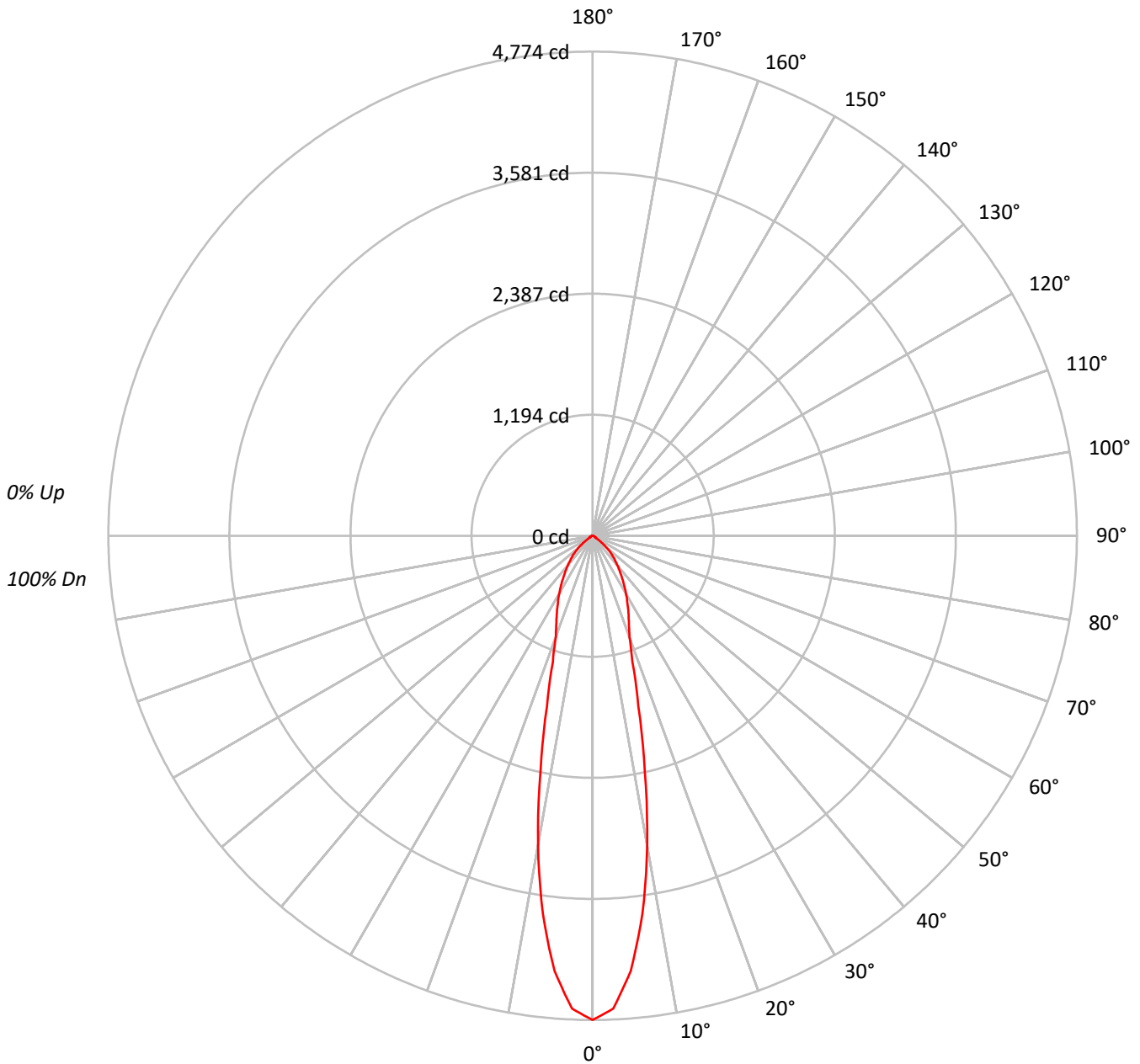
Lumens per Lamp: N/A
Luminaire Lumens: 1904.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376864
5°	341305
10°	248548
15°	142391
20°	89006
25°	72721
30°	59979
35°	48580
40°	39004
45°	31002
50°	20853
55°	9496
60°	5305
65°	4950
70°	4085
75°	3782
80°	4001
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	19.5
10°-20°	501.6	26.3
20°-30°	384.3	20.2
30°-40°	316.6	16.6
40°-50°	211.9	11.1
50°-60°	73.6	3.9
60°-70°	25.6	1.3
70°-80°	13.8	0.7
80°-90°	5.1	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°	1258.1	66.1
0°-40°	1574.7	82.7
0°-60°	1860.1	97.7
0°-90°	1904.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4774	
5°	4307	372
15°	1742	502
25°	835	384
35°	504	317
45°	278	212
55°	69	74
65°	26	26
75°	12	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4774.0
2.5°	4666.1
5°	4307.1
7.5°	3762.3
10°	3100.7
12.5°	2377.3
15°	1742.3
17.5°	1303.6
20°	1059.5
22.5°	932.2
25°	834.9
27.5°	741.1
30°	658.0
32.5°	578.4
35°	504.1
37.5°	436.9
40°	378.5
42.5°	325.5
45°	277.7
47.5°	228.2
50°	169.8
52.5°	120.3
55°	69.0
57.5°	42.5
60°	33.6
62.5°	30.1
65°	26.5
67.5°	21.2
70°	17.7
72.5°	14.2
75°	12.4
77.5°	12.4
80°	8.8
82.5°	7.1
85°	5.3
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)