

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: P642871

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642871
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 - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

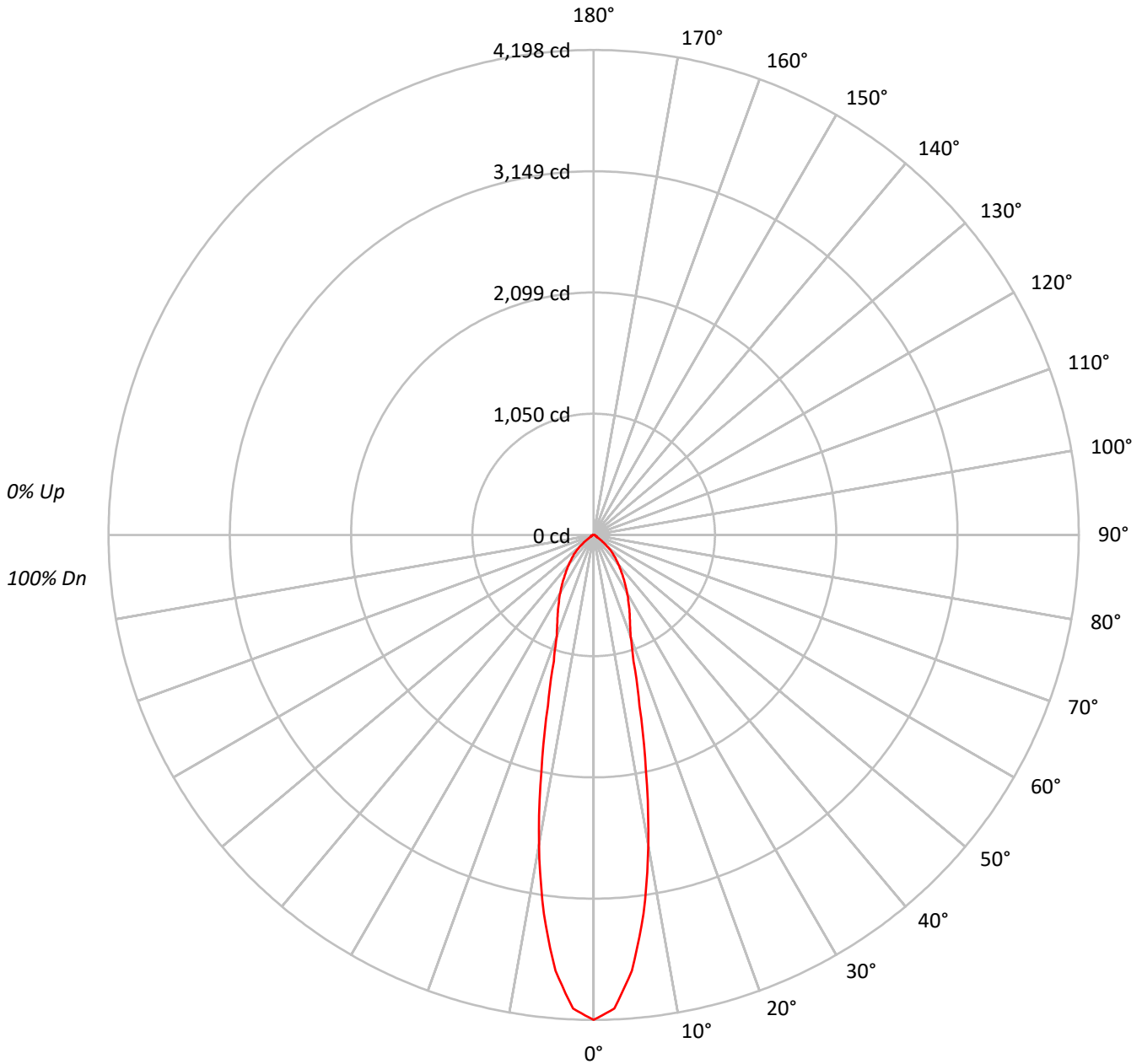
Lumens per Lamp: N/A
Luminaire Lumens: 1674.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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°	331378
5°	300107
10°	218553
15°	125204
20°	78261
25°	63941
30°	52741
35°	42720
40°	34295
45°	27262
50°	18336
55°	8354
60°	4673
65°	4352
70°	3601
75°	3325
80°	3546
85°	4257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27262 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	19.5
10°-20°	441.1	26.3
20°-30°	337.9	20.2
30°-40°	278.4	16.6
40°-50°	186.3	11.1
50°-60°	64.7	3.9
60°-70°	22.5	1.3
70°-80°	12.1	0.7
80°-90°	4.5	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°	1106.3	66.1
0°-40°	1384.6	82.7
0°-60°	1635.6	97.7
0°-90°	1674.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4198	
5°	3787	327
15°	1532	441
25°	734	338
35°	443	278
45°	244	186
55°	61	65
65°	23	22
75°	11	12
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4197.8
2.5°	4103.0
5°	3787.2
7.5°	3308.2
10°	2726.5
12.5°	2090.4
15°	1532.0
17.5°	1146.3
20°	931.6
22.5°	819.7
25°	734.1
27.5°	651.7
30°	578.6
32.5°	508.6
35°	443.3
37.5°	384.2
40°	332.8
42.5°	286.2
45°	244.2
47.5°	200.6
50°	149.3
52.5°	105.8
55°	60.7
57.5°	37.3
60°	29.6
62.5°	26.4
65°	23.3
67.5°	18.7
70°	15.6
72.5°	12.4
75°	10.9
77.5°	10.9
80°	7.8
82.5°	6.2
85°	4.7
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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