

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P642753

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592W - 1500LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1716.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

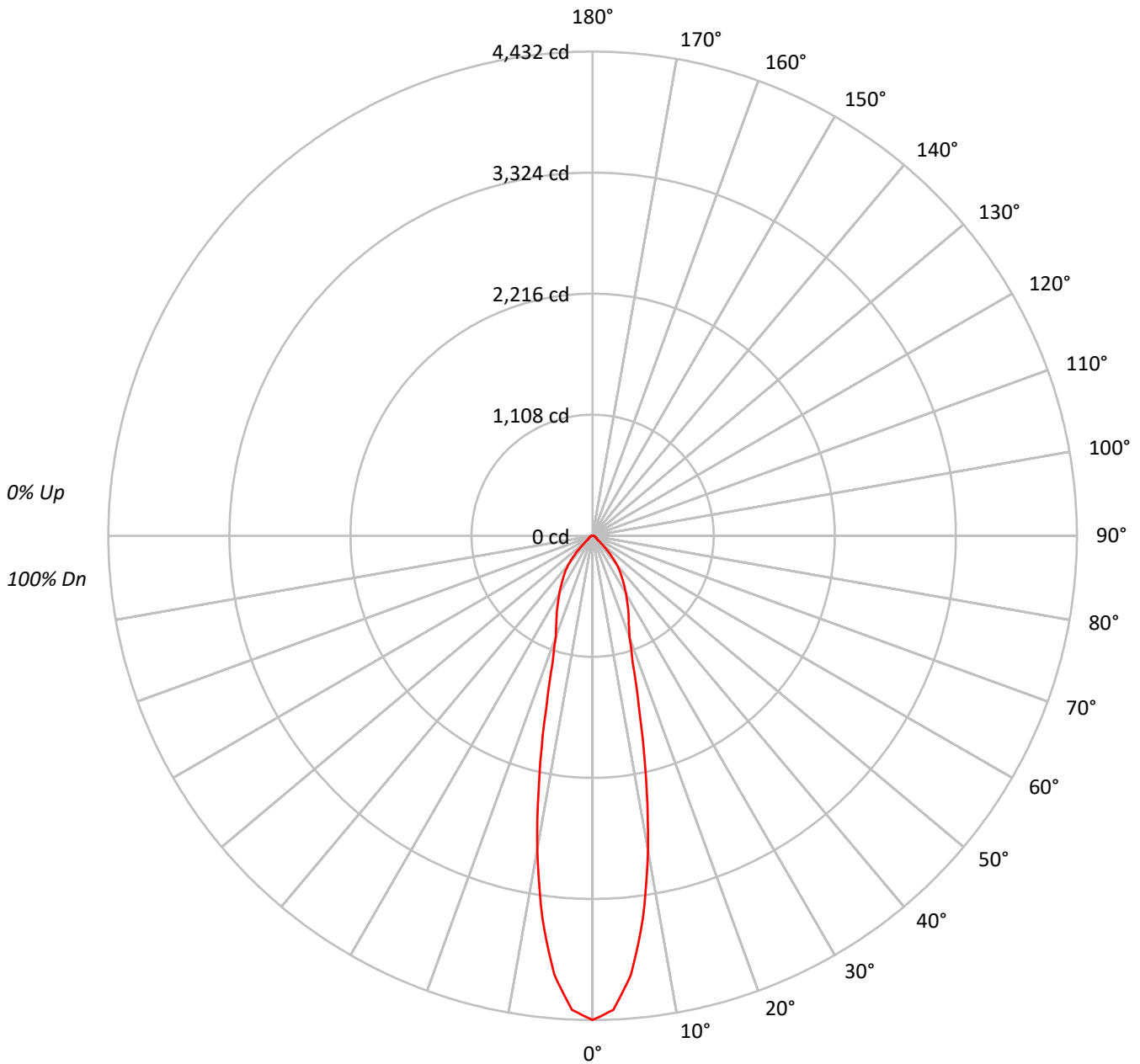
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	349874
5°	319450
10°	233863
15°	134251
20°	82663
25°	67539
30°	55403
35°	45120
40°	35552
45°	22004
50°	8277
55°	6331
60°	5968
65°	5529
70°	5309
75°	5521
80°	5228
85°	4438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22004 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	20.3
10°-20°	471.5	27.5
20°-30°	356.3	20.8
30°-40°	293.5	17.1
40°-50°	150.2	8.7
50°-60°	42.9	2.5
60°-70°	29.5	1.7
70°-80°	18.9	1.1
80°-90°	5.6	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°	1176.4	68.5
0°-40°	1469.9	85.6
0°-60°	1662.9	96.9
0°-90°	1716.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4432	
5°	4031	349
15°	1643	472
25°	775	356
35°	468	294
45°	197	150
55°	46	43
65°	30	29
75°	18	19
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4432.1
2.5°	4343.4
5°	4031.3
7.5°	3528.6
10°	2917.5
12.5°	2247.3
15°	1642.7
17.5°	1217.3
20°	984.0
22.5°	864.1
25°	775.4
27.5°	686.7
30°	607.8
32.5°	535.5
35°	468.2
37.5°	409.0
40°	345.0
42.5°	266.1
45°	197.1
47.5°	121.6
50°	67.4
52.5°	52.6
55°	46.0
57.5°	41.1
60°	37.8
62.5°	32.9
65°	29.6
67.5°	26.3
70°	23.0
72.5°	21.4
75°	18.1
77.5°	14.8
80°	11.5
82.5°	8.2
85°	4.9
87.5°	1.6
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)