

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: P642752

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642752
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1671.3 lumens
Efficiency: N/A
Efficacy: 97.7 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

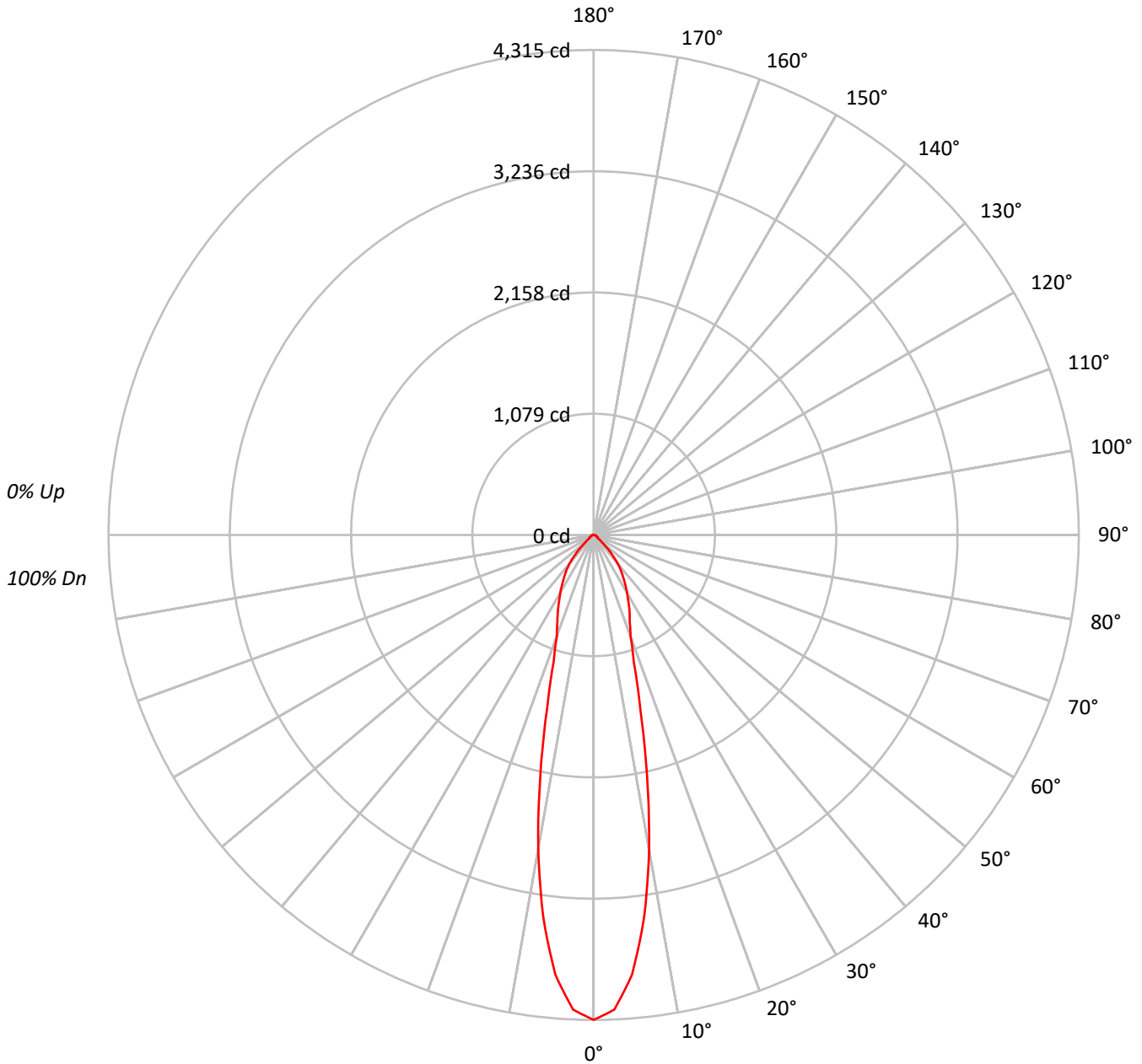
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	340606
5°	310987
10°	227667
15°	130696
20°	80470
25°	65744
30°	53935
35°	43925
40°	34604
45°	21424
50°	8056
55°	6166
60°	5810
65°	5380
70°	5170
75°	5368
80°	5092
85°	4348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	20.3
10°-20°	459.0	27.5
20°-30°	346.8	20.8
30°-40°	285.7	17.1
40°-50°	146.2	8.7
50°-60°	41.8	2.5
60°-70°	28.7	1.7
70°-80°	18.4	1.1
80°-90°	5.4	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°	1145.2	68.5
0°-40°	1430.9	85.6
0°-60°	1618.8	96.9
0°-90°	1671.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4315	
5°	3924	339
15°	1599	459
25°	755	347
35°	456	286
45°	192	146
55°	45	42
65°	29	29
75°	18	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4314.7
2.5°	4228.3
5°	3924.5
7.5°	3435.1
10°	2840.2
12.5°	2187.7
15°	1599.2
17.5°	1185.0
20°	957.9
22.5°	841.2
25°	754.8
27.5°	668.5
30°	591.7
32.5°	521.3
35°	455.8
37.5°	398.2
40°	335.8
42.5°	259.1
45°	191.9
47.5°	118.3
50°	65.6
52.5°	51.2
55°	44.8
57.5°	40.0
60°	36.8
62.5°	32.0
65°	28.8
67.5°	25.6
70°	22.4
72.5°	20.8
75°	17.6
77.5°	14.4
80°	11.2
82.5°	8.0
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)