

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: P642758

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642758
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 - 900LM - 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: 1104.1 lumens
Efficiency: N/A
Efficacy: 105.2 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

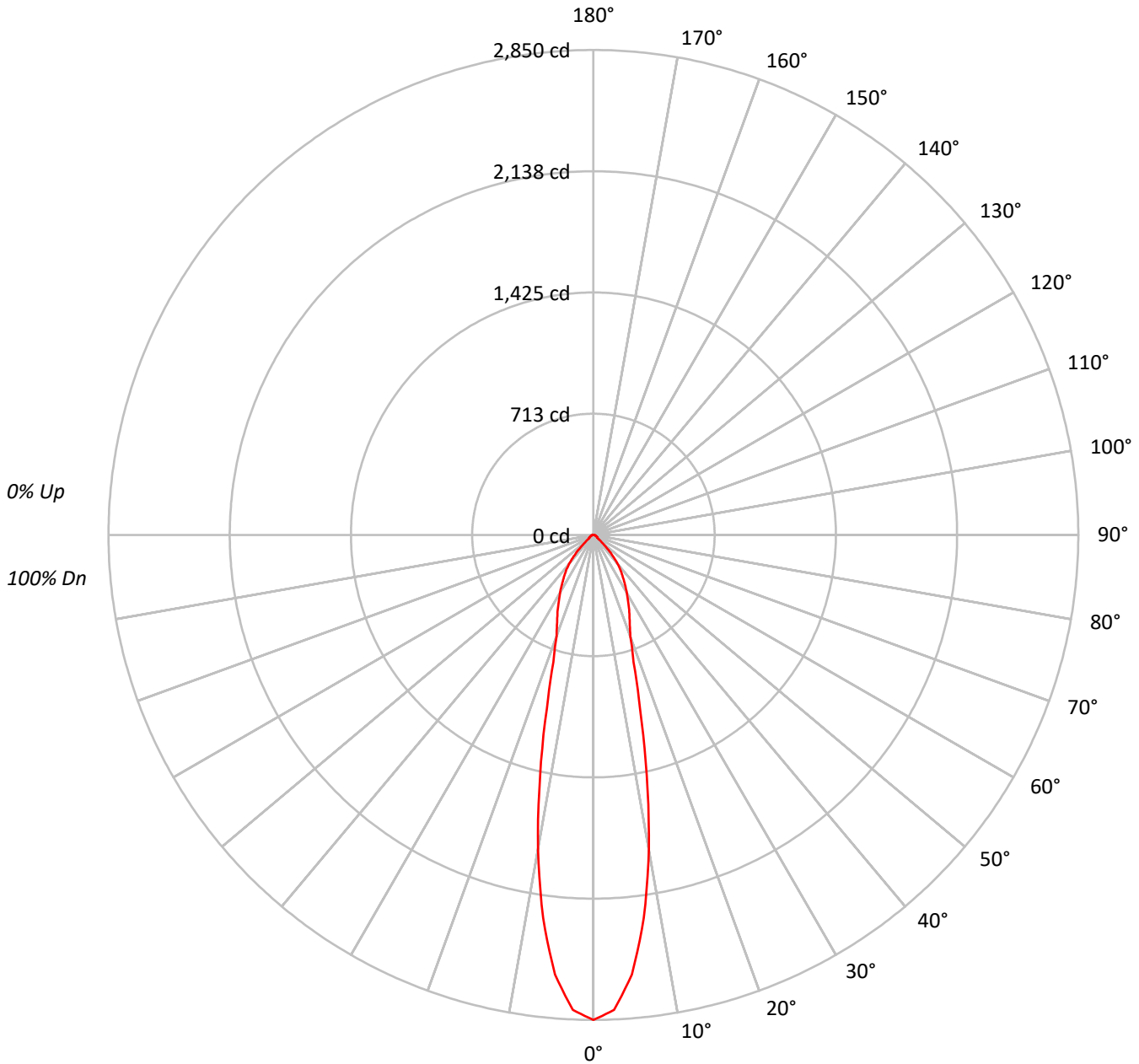
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	225013
5°	205444
10°	150402
15°	86343
20°	53160
25°	43438
30°	35632
35°	29017
40°	22867
45°	14156
50°	5318
55°	4074
60°	3837
65°	3549
70°	3416
75°	3538
80°	3364
85°	2898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	20.3
10°-20°	303.3	27.5
20°-30°	229.1	20.8
30°-40°	188.8	17.1
40°-50°	96.6	8.7
50°-60°	27.6	2.5
60°-70°	18.9	1.7
70°-80°	12.1	1.1
80°-90°	3.6	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°	756.5	68.5
0°-40°	945.3	85.6
0°-60°	1069.5	96.9
0°-90°	1104.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2850	
5°	2593	224
15°	1056	303
25°	499	229
35°	301	189
45°	127	97
55°	30	28
65°	19	19
75°	12	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2850.4
2.5°	2793.3
5°	2592.6
7.5°	2269.3
10°	1876.3
12.5°	1445.3
15°	1056.5
17.5°	782.9
20°	632.8
22.5°	555.7
25°	498.7
27.5°	441.6
30°	390.9
32.5°	344.4
35°	301.1
37.5°	263.1
40°	221.9
42.5°	171.2
45°	126.8
47.5°	78.2
50°	43.3
52.5°	33.8
55°	29.6
57.5°	26.4
60°	24.3
62.5°	21.1
65°	19.0
67.5°	16.9
70°	14.8
72.5°	13.7
75°	11.6
77.5°	9.5
80°	7.4
82.5°	5.3
85°	3.2
87.5°	1.1
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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