

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: P642742

Luminaire Tested: ML5615LSNFL259FS1E - 592SC - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592SC - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1094.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.48
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

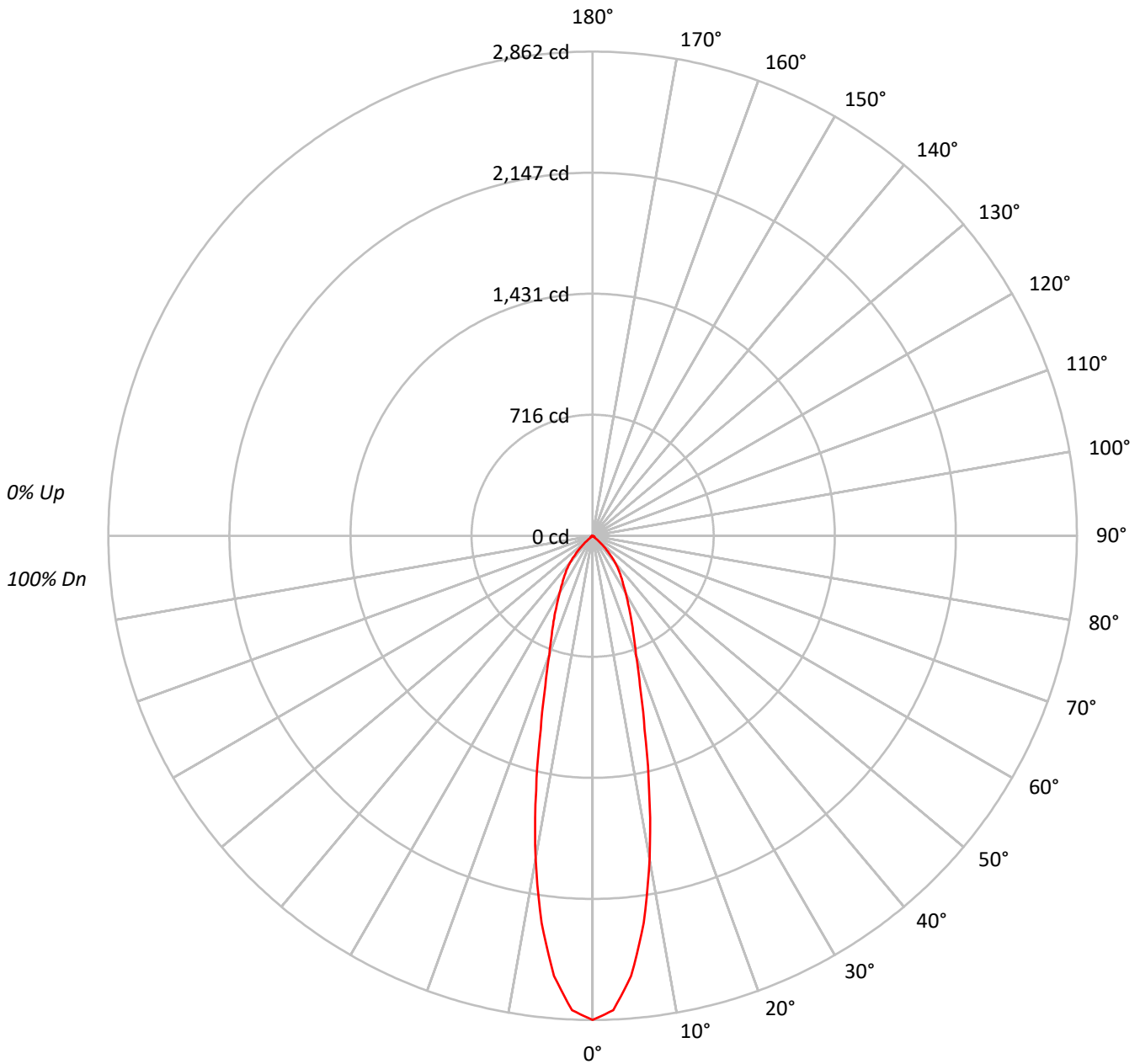
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20		
RC	80				70				50				30				10		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74	74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67	67
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	225921
5°	206973
10°	155500
15°	96804
20°	62762
25°	46878
30°	35459
35°	28063
40°	21424
45°	12403
50°	3291
55°	1418
60°	979
65°	392
70°	231
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	20.8
10°-20°	336.9	30.8
20°-30°	248.7	22.7
30°-40°	182.4	16.7
40°-50°	84.9	7.8
50°-60°	11.1	1.0
60°-70°	2.6	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	813.1	74.3
0°-40°	995.6	91.0
0°-60°	1091.6	99.7
0°-90°	1094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2862	
5°	2612	228
15°	1184	337
25°	538	249
35°	291	182
45°	111	85
55°	10	11
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2861.9
2.5°	2806.4
5°	2611.9
7.5°	2308.3
10°	1939.9
12.5°	1543.7
15°	1184.5
17.5°	928.3
20°	747.1
22.5°	629.8
25°	538.2
27.5°	454.9
30°	389.0
32.5°	334.5
35°	291.2
37.5°	251.1
40°	207.9
42.5°	157.5
45°	111.1
47.5°	62.8
50°	26.8
52.5°	15.4
55°	10.3
57.5°	8.2
60°	6.2
62.5°	4.1
65°	2.1
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)