

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: P642853

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

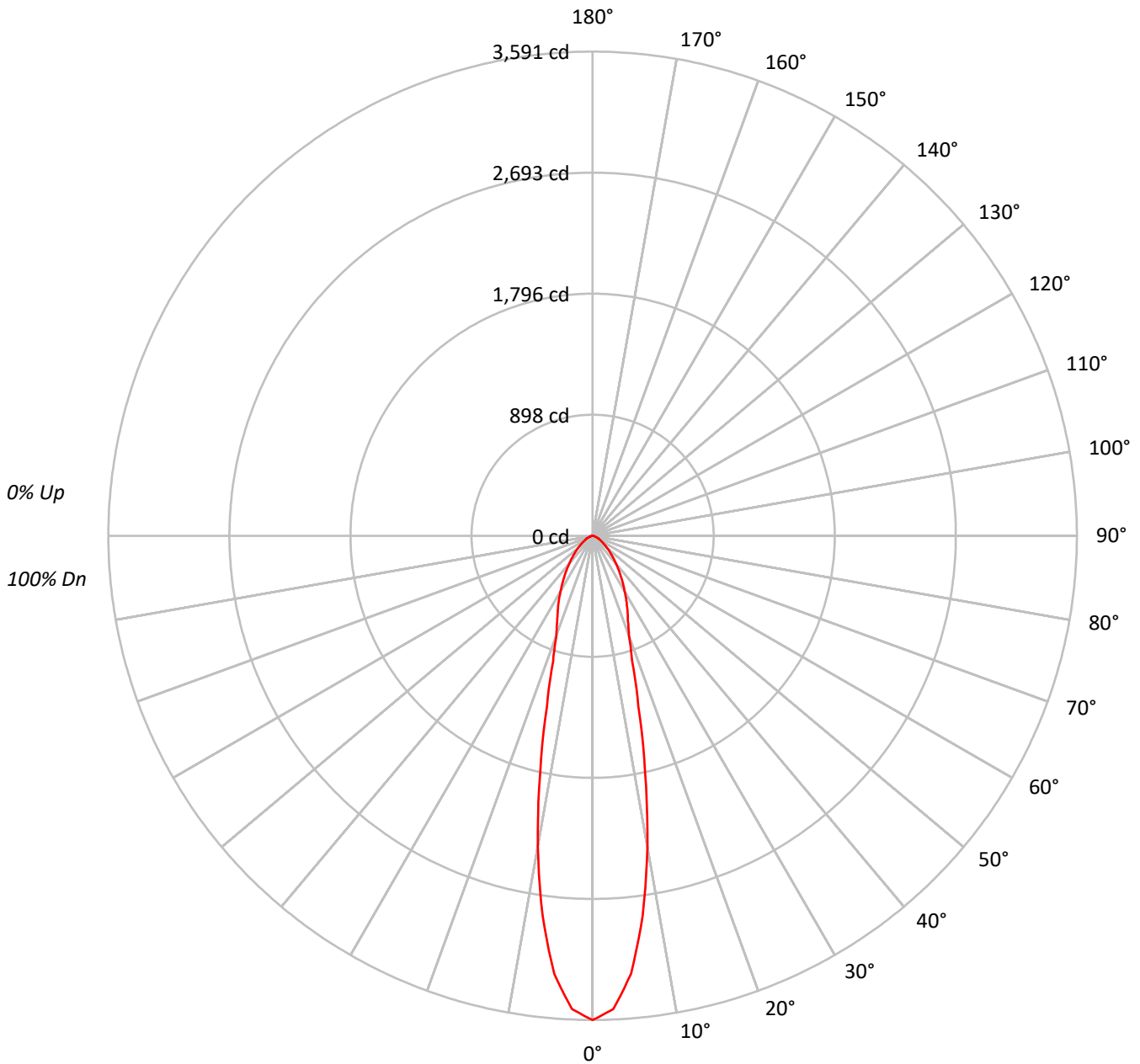
Lumens per Lamp: N/A
Luminaire Lumens: 1471.2 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63	63	63	63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56	56	56	56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54	54	54	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	283508
5°	258433
10°	187491
15°	107044
20°	66130
25°	53202
30°	43371
35°	34905
40°	27824
45°	21937
50°	17071
55°	13433
60°	10768
65°	8742
70°	6163
75°	3264
80°	2409
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21937 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	19.1
10°-20°	377.0	25.6
20°-30°	281.5	19.1
30°-40°	227.7	15.5
40°-50°	153.1	10.4
50°-60°	88.9	6.0
60°-70°	46.7	3.2
70°-80°	13.4	0.9
80°-90°	1.8	0.1
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°	939.7	63.9
0°-40°	1167.4	79.3
0°-60°	1409.4	95.8
0°-90°	1471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3591	
5°	3261	281
15°	1310	377
25°	611	281
35°	362	228
45°	196	153
55°	98	89
65°	47	47
75°	11	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3591.4
2.5°	3513.9
5°	3261.3
7.5°	2844.2
10°	2339.0
12.5°	1796.4
15°	1309.8
17.5°	974.4
20°	787.2
22.5°	684.3
25°	610.8
27.5°	541.3
30°	475.8
32.5°	417.0
35°	362.2
37.5°	314.1
40°	270.0
42.5°	231.2
45°	196.5
47.5°	165.7
50°	139.0
52.5°	116.3
55°	97.6
57.5°	81.5
60°	68.2
62.5°	56.1
65°	46.8
67.5°	38.8
70°	26.7
72.5°	17.4
75°	10.7
77.5°	6.7
80°	5.3
82.5°	2.7
85°	1.3
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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