

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: P643018

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

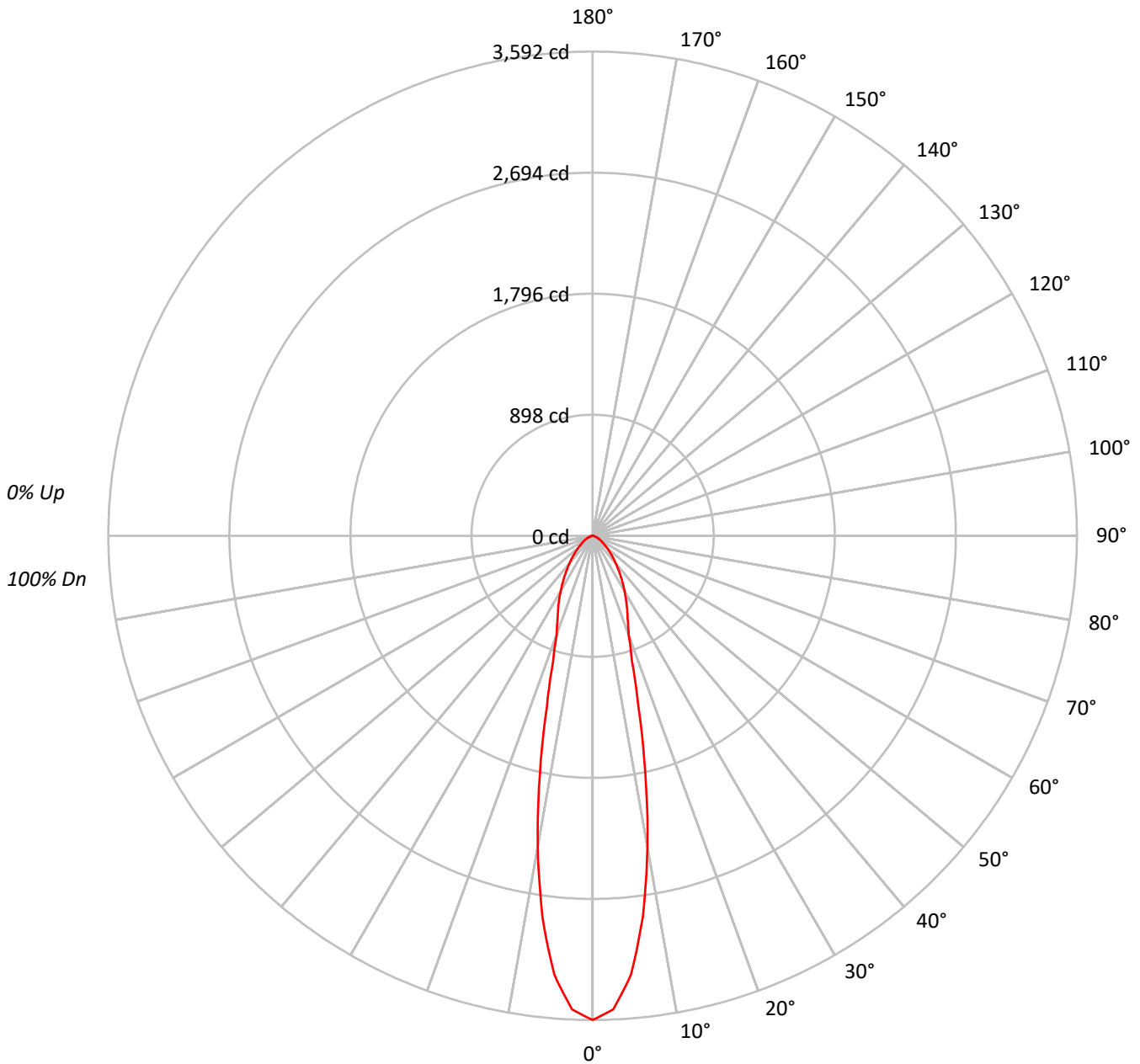
Lumens per Lamp: N/A
Luminaire Lumens: 1463.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196909
5°	179798
10°	130497
15°	74291
20°	45510
25°	36680
30°	29935
35°	24045
40°	19021
45°	15017
50°	11735
55°	9194
60°	7324
65°	5889
70°	4280
75°	2266
80°	1673
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	19.3
10°-20°	377.0	25.8
20°-30°	279.4	19.1
30°-40°	225.6	15.4
40°-50°	151.0	10.3
50°-60°	87.6	6.0
60°-70°	45.8	3.1
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°	938.1	64.1
0°-40°	1163.7	79.5
0°-60°	1402.3	95.8
0°-90°	1463.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3592	
5°	3267	282
15°	1309	377
25°	606	279
35°	359	226
45°	194	151
55°	96	88
65°	45	46
75°	11	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3591.9
2.5°	3517.1
5°	3267.3
7.5°	2850.5
10°	2344.3
12.5°	1806.0
15°	1309.0
17.5°	969.8
20°	780.1
22.5°	679.9
25°	606.4
27.5°	537.0
30°	472.9
32.5°	414.1
35°	359.3
37.5°	309.9
40°	265.8
42.5°	228.4
45°	193.7
47.5°	163.0
50°	137.6
52.5°	114.9
55°	96.2
57.5°	80.1
60°	66.8
62.5°	56.1
65°	45.4
67.5°	37.4
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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