

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: P643017

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643017
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

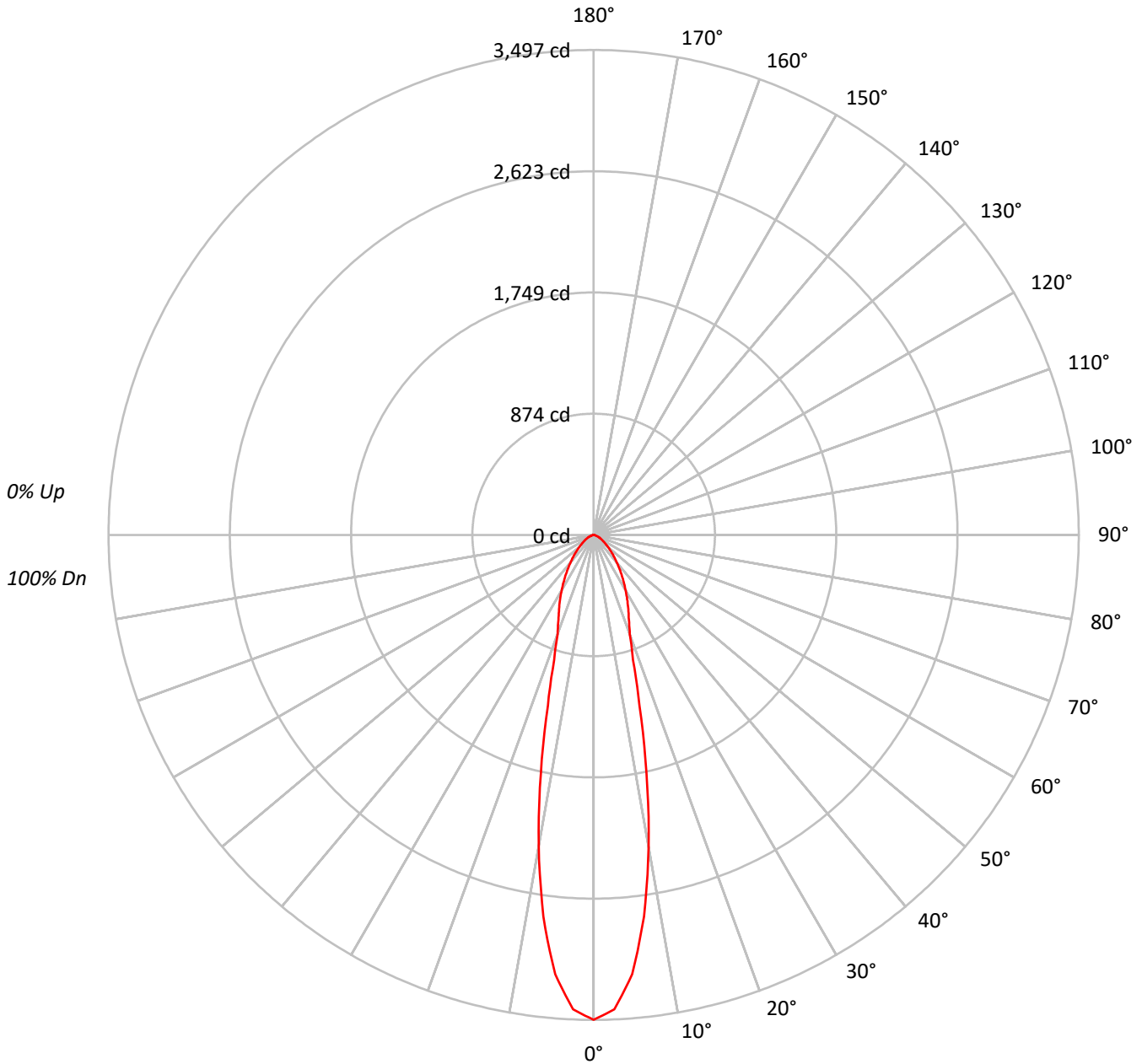
Lumens per Lamp: N/A
Luminaire Lumens: 1424.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191690
5°	175033
10°	127035
15°	72327
20°	44302
25°	35712
30°	29137
35°	23410
40°	18520
45°	14622
50°	11420
55°	8946
60°	7127
65°	5733
70°	4167
75°	2203
80°	1642
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14622 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	19.3
10°-20°	367.0	25.8
20°-30°	272.0	19.1
30°-40°	219.6	15.4
40°-50°	147.0	10.3
50°-60°	85.3	6.0
60°-70°	44.6	3.1
70°-80°	13.0	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°	913.2	64.1
0°-40°	1132.8	79.5
0°-60°	1365.1	95.8
0°-90°	1424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3497	
5°	3181	274
15°	1274	367
25°	590	272
35°	350	220
45°	189	147
55°	94	85
65°	44	45
75°	10	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3496.7
2.5°	3423.9
5°	3180.7
7.5°	2775.0
10°	2282.1
12.5°	1758.1
15°	1274.4
17.5°	944.1
20°	759.4
22.5°	661.9
25°	590.4
27.5°	522.7
30°	460.3
32.5°	403.1
35°	349.8
37.5°	301.7
40°	258.8
42.5°	222.4
45°	188.6
47.5°	158.6
50°	133.9
52.5°	111.8
55°	93.6
57.5°	78.0
60°	65.0
62.5°	54.6
65°	44.2
67.5°	36.4
70°	26.0
72.5°	16.9
75°	10.4
77.5°	6.5
80°	5.2
82.5°	2.6
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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