

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: P642859

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642859
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 - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

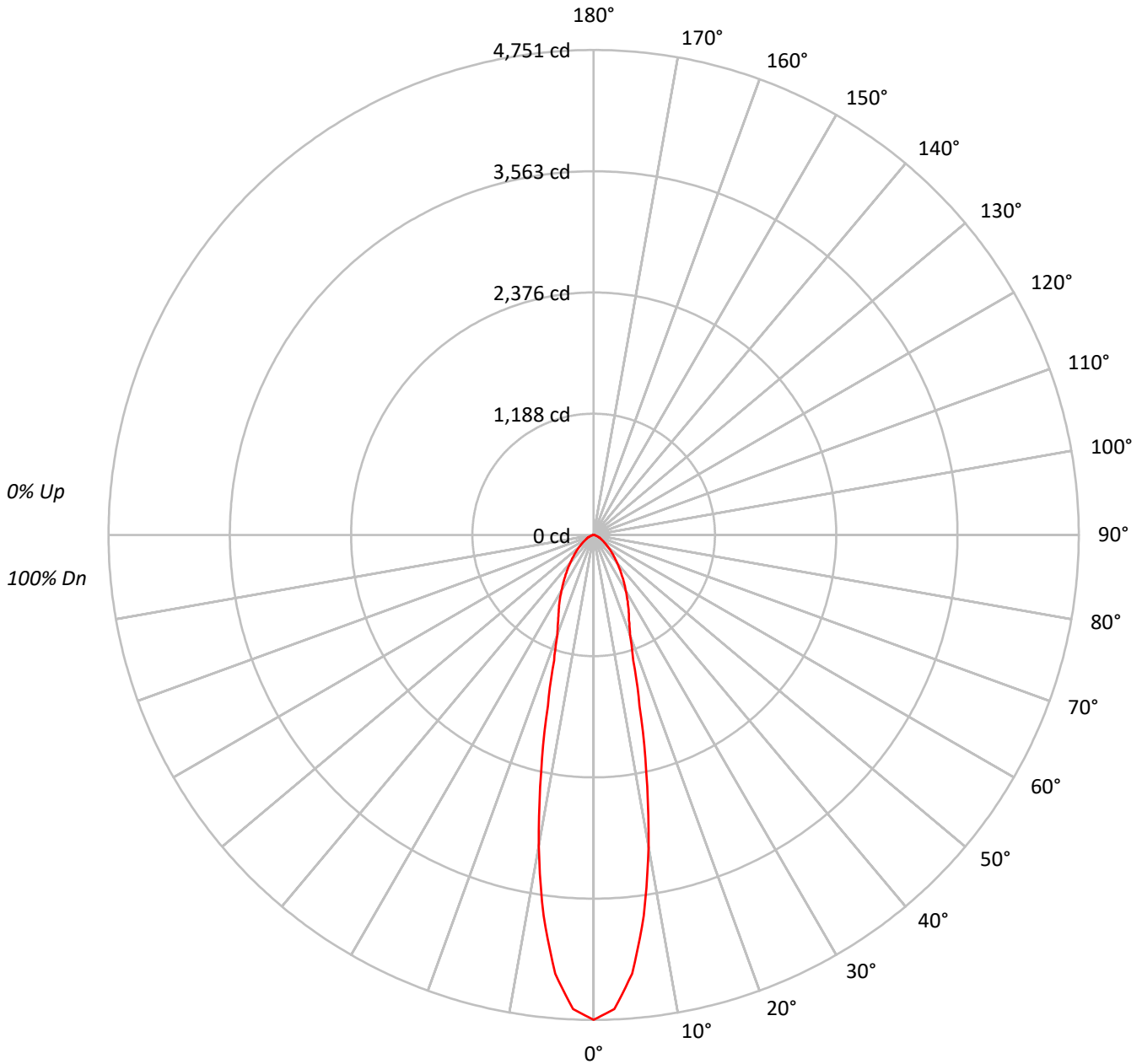
Lumens per Lamp: N/A
Luminaire Lumens: 1946.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): 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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	90	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	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	375025
5°	341852
10°	248019
15°	141606
20°	87485
25°	70378
30°	57372
35°	46170
40°	36799
45°	29015
50°	22585
55°	17768
60°	14241
65°	11562
70°	8171
75°	4301
80°	3228
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	19.1
10°-20°	498.7	25.6
20°-30°	372.4	19.1
30°-40°	301.3	15.5
40°-50°	202.5	10.4
50°-60°	117.6	6.0
60°-70°	61.8	3.2
70°-80°	17.6	0.9
80°-90°	2.4	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°	1243.0	63.9
0°-40°	1544.3	79.3
0°-60°	1864.4	95.8
0°-90°	1946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4751	
5°	4314	372
15°	1733	499
25°	808	372
35°	479	301
45°	260	203
55°	129	118
65°	62	62
75°	14	18
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4750.7
2.5°	4648.2
5°	4314.0
7.5°	3762.4
10°	3094.1
12.5°	2376.3
15°	1732.7
17.5°	1288.9
20°	1041.4
22.5°	905.2
25°	808.0
27.5°	716.1
30°	629.4
32.5°	551.6
35°	479.1
37.5°	415.5
40°	357.1
42.5°	305.9
45°	259.9
47.5°	219.2
50°	183.9
52.5°	153.8
55°	129.1
57.5°	107.9
60°	90.2
62.5°	74.3
65°	61.9
67.5°	51.3
70°	35.4
72.5°	23.0
75°	14.1
77.5°	8.8
80°	7.1
82.5°	3.5
85°	1.8
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)