

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: P642864

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642864
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 - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

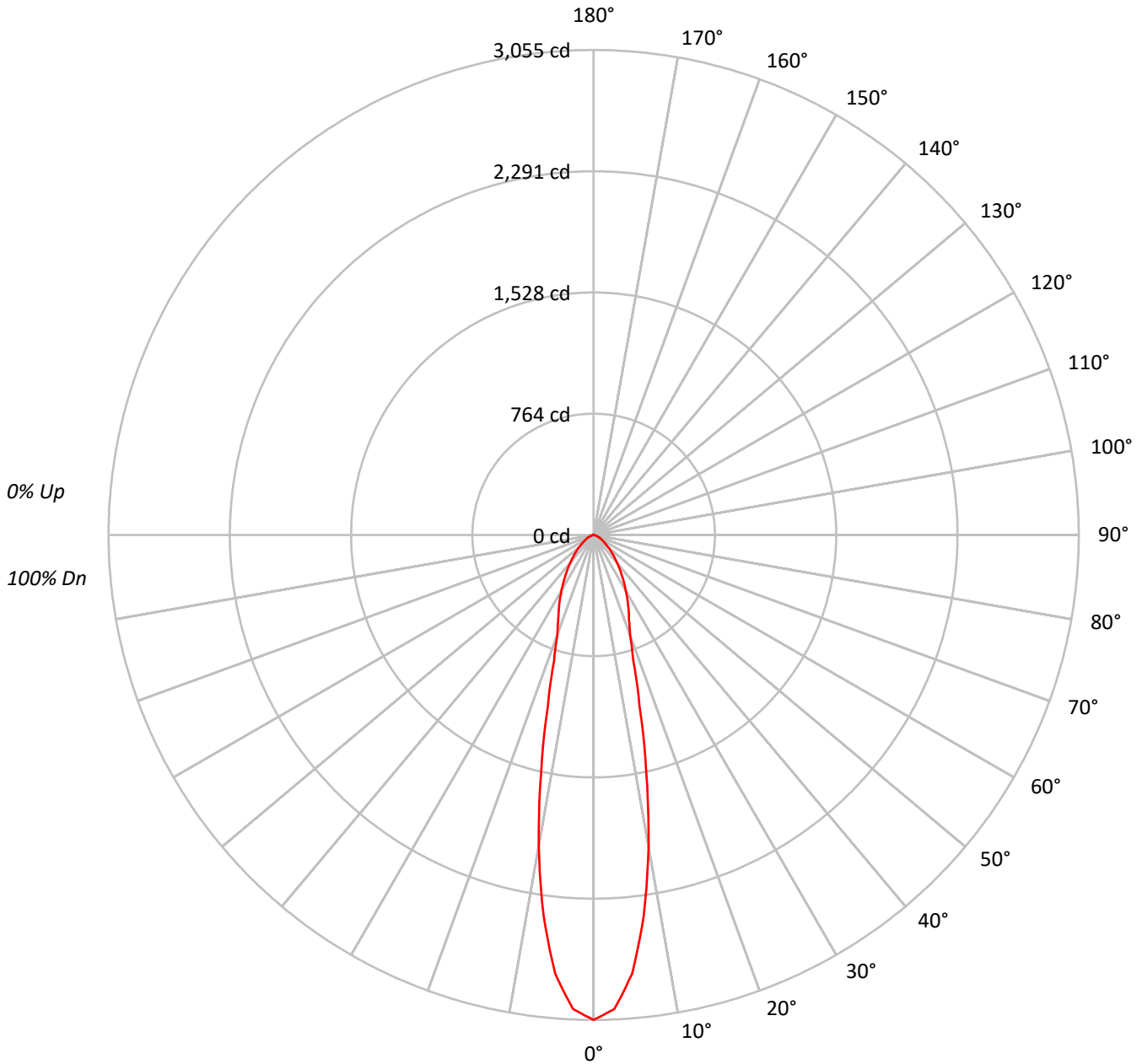
Lumens per Lamp: N/A
Luminaire Lumens: 1251.6 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	241188
5°	219850
10°	159508
15°	91067
20°	56260
25°	45258
30°	36899
35°	29691
40°	23671
45°	18655
50°	14528
55°	11423
60°	9157
65°	7434
70°	5239
75°	2776
80°	2046
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	19.1
10°-20°	320.7	25.6
20°-30°	239.5	19.1
30°-40°	193.8	15.5
40°-50°	130.2	10.4
50°-60°	75.6	6.0
60°-70°	39.7	3.2
70°-80°	11.4	0.9
80°-90°	1.5	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°	799.4	63.9
0°-40°	993.1	79.3
0°-60°	1199.0	95.8
0°-90°	1251.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3055	
5°	2774	239
15°	1114	321
25°	520	239
35°	308	194
45°	167	130
55°	83	76
65°	40	40
75°	9	11
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3055.3
2.5°	2989.4
5°	2774.4
7.5°	2419.7
10°	1989.9
12.5°	1528.2
15°	1114.3
17.5°	828.9
20°	669.7
22.5°	582.2
25°	519.6
27.5°	460.5
30°	404.8
32.5°	354.8
35°	308.1
37.5°	267.2
40°	229.7
42.5°	196.7
45°	167.1
47.5°	141.0
50°	118.3
52.5°	98.9
55°	83.0
57.5°	69.4
60°	58.0
62.5°	47.8
65°	39.8
67.5°	33.0
70°	22.7
72.5°	14.8
75°	9.1
77.5°	5.7
80°	4.5
82.5°	2.3
85°	1.1
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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