

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: P642854

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642854
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 - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

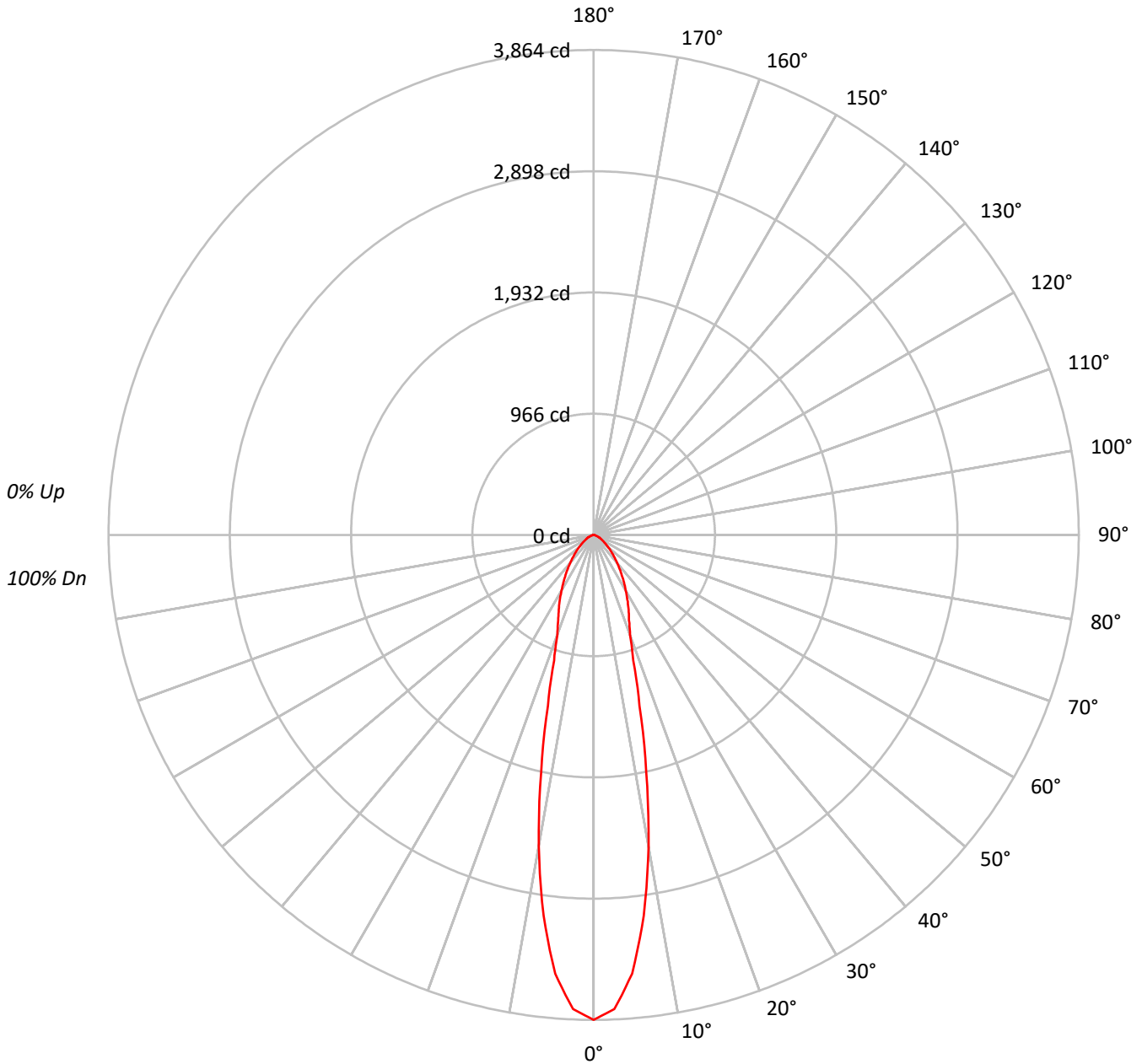
Lumens per Lamp: N/A
Luminaire Lumens: 1583.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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°	305043
5°	278062
10°	201735
15°	115176
20°	71154
25°	57243
30°	46670
35°	37555
40°	29936
45°	23601
50°	18372
55°	14451
60°	11573
65°	9396
70°	6647
75°	3508
80°	2637
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	19.1
10°-20°	405.6	25.6
20°-30°	302.9	19.1
30°-40°	245.1	15.5
40°-50°	164.7	10.4
50°-60°	95.6	6.0
60°-70°	50.2	3.2
70°-80°	14.4	0.9
80°-90°	2.0	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°	1011.0	63.9
0°-40°	1256.1	79.3
0°-60°	1516.5	95.8
0°-90°	1583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3864	
5°	3509	303
15°	1409	406
25°	657	303
35°	390	245
45°	211	165
55°	105	96
65°	50	50
75°	12	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3864.2
2.5°	3780.8
5°	3509.0
7.5°	3060.3
10°	2516.7
12.5°	1932.8
15°	1409.3
17.5°	1048.4
20°	847.0
22.5°	736.3
25°	657.2
27.5°	582.4
30°	512.0
32.5°	448.7
35°	389.7
37.5°	338.0
40°	290.5
42.5°	248.8
45°	211.4
47.5°	178.3
50°	149.6
52.5°	125.1
55°	105.0
57.5°	87.7
60°	73.3
62.5°	60.4
65°	50.3
67.5°	41.7
70°	28.8
72.5°	18.7
75°	11.5
77.5°	7.2
80°	5.8
82.5°	2.9
85°	1.4
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)