

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: P642888

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1782.5 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

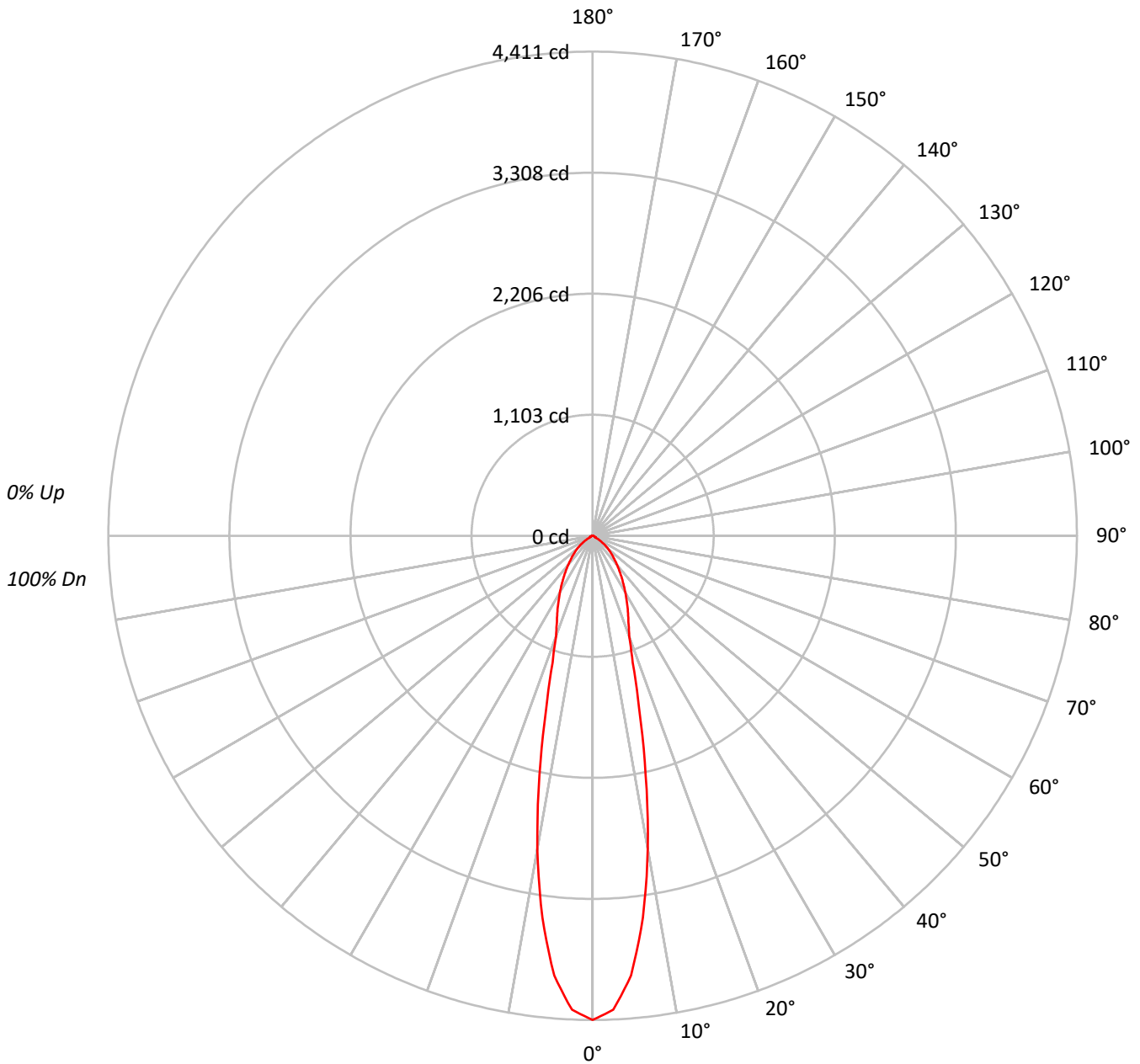
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642888

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P642888

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K

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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55																			
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	241806
5°	221301
10°	161219
15°	92674
20°	56734
25°	45910
30°	37645
35°	30671
40°	24689
45°	19738
50°	15547
55°	10045
60°	3958
65°	2983
70°	2372
75°	2097
80°	2084
85°	2076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19738 cd/sqm



TEST NUMBER: P642888

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	19.5
10°-20°	468.2	26.3
20°-30°	349.7	19.6
30°-40°	287.5	16.1
40°-50°	198.2	11.1
50°-60°	95.0	5.3
60°-70°	22.9	1.3
70°-80°	10.6	0.6
80°-90°	3.6	0.2
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°	1164.7	65.3
0°-40°	1452.2	81.5
0°-60°	1745.4	97.9
0°-90°	1782.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4411	
5°	4022	347
15°	1633	468
25°	759	350
35°	458	287
45°	255	198
55°	105	95
65°	23	23
75°	10	11
85°	3	4
90°	0	



TEST NUMBER: P642888

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	4410.9
2.5°	4322.1
5°	4021.5
7.5°	3507.3
10°	2896.2
12.5°	2232.5
15°	1632.9
17.5°	1209.1
20°	972.5
22.5°	849.3
25°	759.0
27.5°	673.5
30°	594.7
32.5°	522.4
35°	458.3
37.5°	399.2
40°	345.0
42.5°	297.3
45°	254.6
47.5°	216.8
50°	182.3
52.5°	147.8
55°	105.1
57.5°	67.4
60°	36.1
62.5°	26.3
65°	23.0
67.5°	18.1
70°	14.8
72.5°	11.5
75°	9.9
77.5°	8.2
80°	6.6
82.5°	4.9
85°	3.3
87.5°	1.6
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)