

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: P642894

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642894
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 - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.5 lumens
Efficiency: N/A
Efficacy: 117.5 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

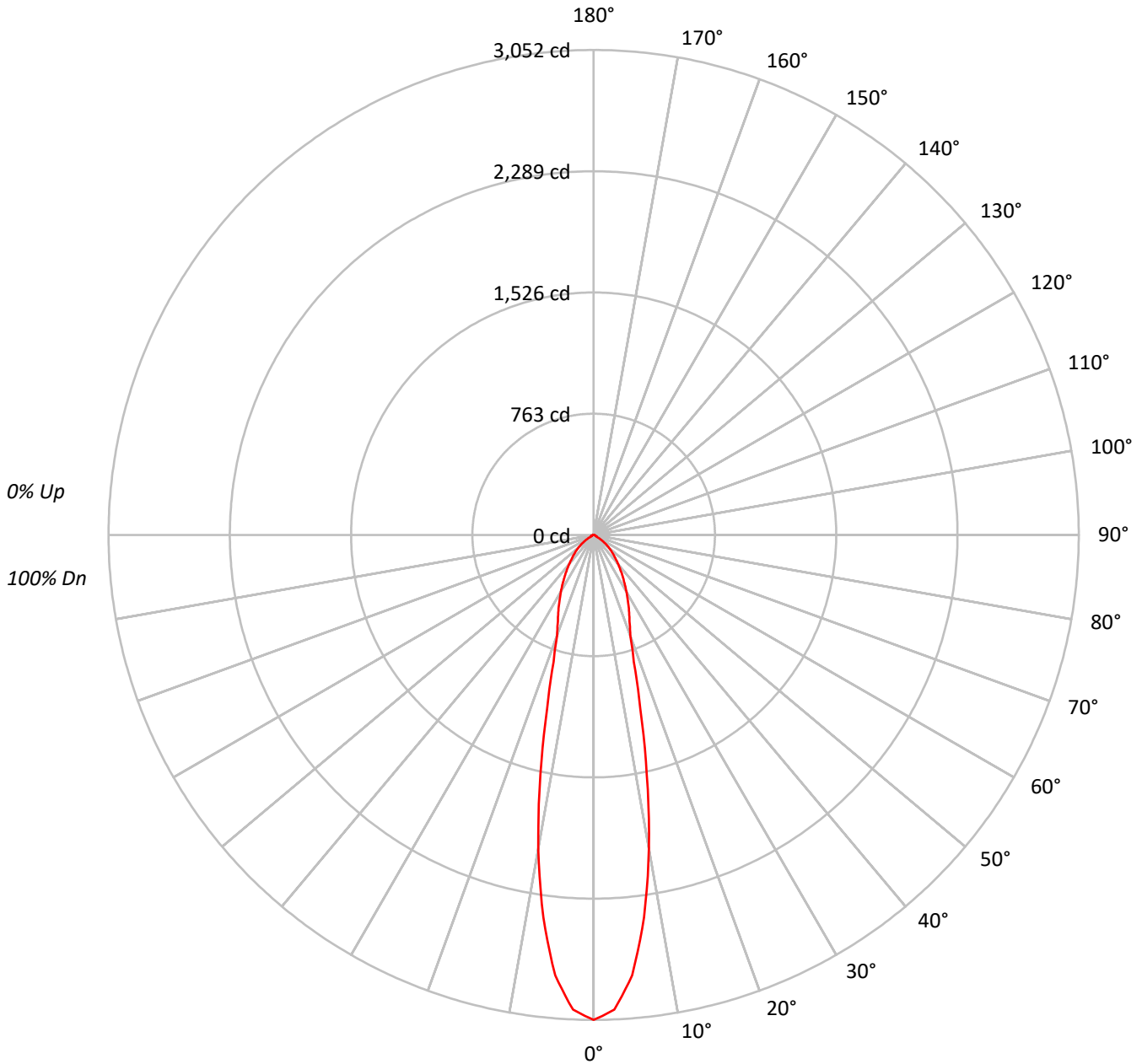
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642894

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P642894

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 900LM - 4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	90	88	86			86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80			80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65			65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58			58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167322
5°	153136
10°	111560
15°	64126
20°	39262
25°	31768
30°	26048
35°	21228
40°	17082
45°	13660
50°	10763
55°	6958
60°	2741
65°	2062
70°	1635
75°	1440
80°	1421
85°	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13660 cd/sqm



TEST NUMBER: P642894

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	19.5
10°-20°	324.0	26.3
20°-30°	242.0	19.6
30°-40°	198.9	16.1
40°-50°	137.2	11.1
50°-60°	65.8	5.3
60°-70°	15.8	1.3
70°-80°	7.3	0.6
80°-90°	2.5	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°	806.0	65.3
0°-40°	1004.9	81.5
0°-60°	1207.8	97.9
0°-90°	1233.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3052	
5°	2783	240
15°	1130	324
25°	525	242
35°	317	199
45°	176	137
55°	73	66
65°	16	16
75°	7	7
85°	2	2
90°	0	



TEST NUMBER: P642894

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3052.2
2.5°	2990.8
5°	2782.8
7.5°	2427.0
10°	2004.1
12.5°	1544.9
15°	1129.9
17.5°	836.7
20°	673.0
22.5°	587.7
25°	525.2
27.5°	466.1
30°	411.5
32.5°	361.5
35°	317.2
37.5°	276.2
40°	238.7
42.5°	205.8
45°	176.2
47.5°	150.1
50°	126.2
52.5°	102.3
55°	72.8
57.5°	46.6
60°	25.0
62.5°	18.2
65°	15.9
67.5°	12.5
70°	10.2
72.5°	8.0
75°	6.8
77.5°	5.7
80°	4.5
82.5°	3.4
85°	2.3
87.5°	1.1
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)