

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: P642870

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

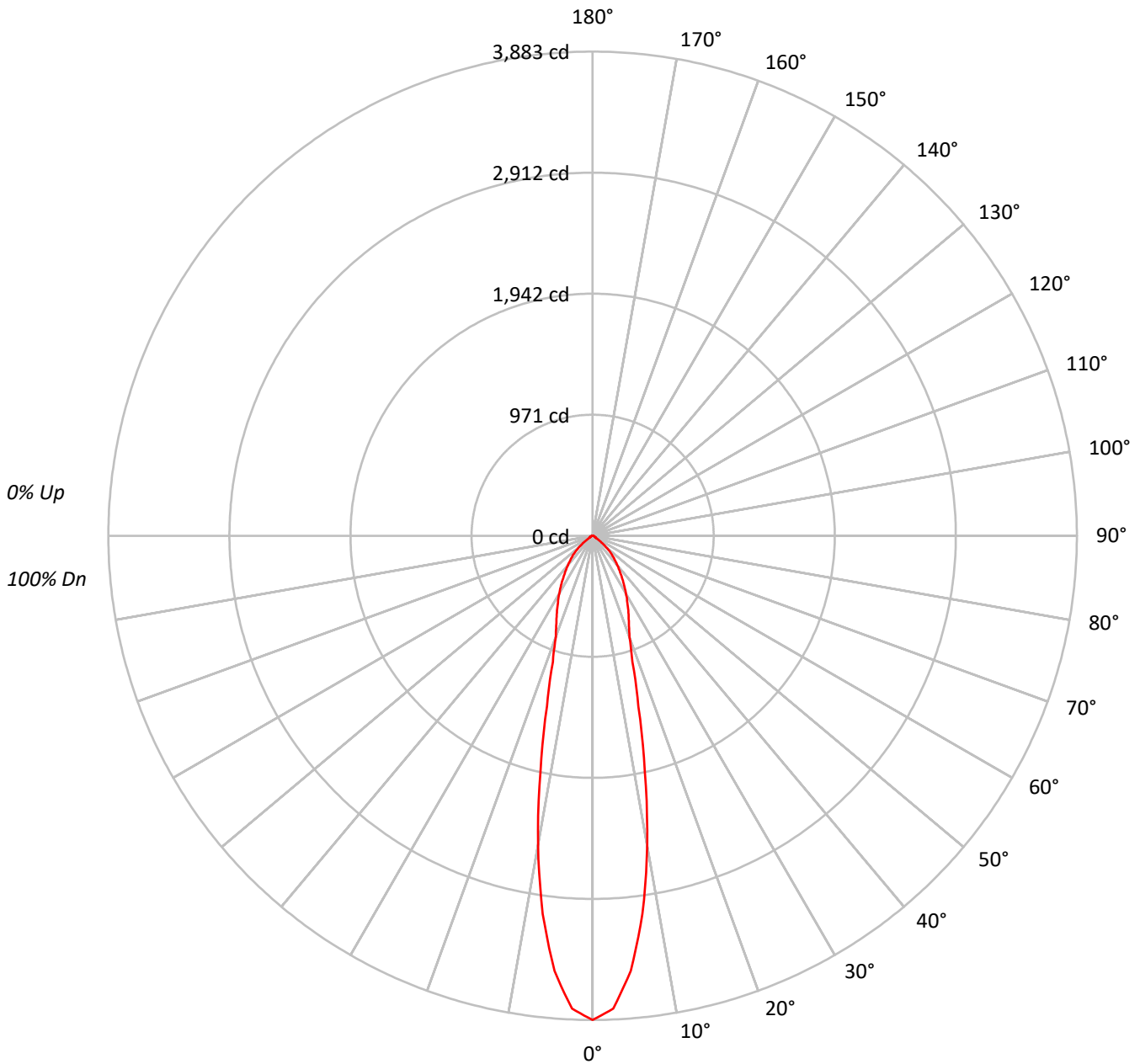
Lumens per Lamp: N/A
Luminaire Lumens: 1549.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P642870
CATALOG NUMBER: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642870

CATALOG NUMBER: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K

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	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																			
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58																			
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306535
5°	277610
10°	202168
15°	115822
20°	72397
25°	59151
30°	48785
35°	39511
40°	31729
45°	25219
50°	16960
55°	7721
60°	4310
65°	4035
70°	3324
75°	3081
80°	3273
85°	3895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25219 cd/sqm



TEST NUMBER: P642870

CATALOG NUMBER: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	19.5
10°-20°	408.0	26.3
20°-30°	312.6	20.2
30°-40°	257.5	16.6
40°-50°	172.4	11.1
50°-60°	59.8	3.9
60°-70°	20.8	1.3
70°-80°	11.2	0.7
80°-90°	4.1	0.3
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°	1023.3	66.1
0°-40°	1280.8	82.7
0°-60°	1513.0	97.7
0°-90°	1549.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3883	
5°	3503	303
15°	1417	408
25°	679	313
35°	410	258
45°	226	172
55°	56	60
65°	22	21
75°	10	11
85°	4	4
90°	0	



TEST NUMBER: P642870

CATALOG NUMBER: ML5615LSNFL259FS1E - 596WB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3883.1
2.5°	3795.4
5°	3503.3
7.5°	3060.2
10°	2522.1
12.5°	1933.7
15°	1417.2
17.5°	1060.3
20°	861.8
22.5°	758.2
25°	679.1
27.5°	602.8
30°	535.2
32.5°	470.5
35°	410.0
37.5°	355.4
40°	307.9
42.5°	264.7
45°	225.9
47.5°	185.6
50°	138.1
52.5°	97.8
55°	56.1
57.5°	34.5
60°	27.3
62.5°	24.5
65°	21.6
67.5°	17.3
70°	14.4
72.5°	11.5
75°	10.1
77.5°	10.1
80°	7.2
82.5°	5.8
85°	4.3
87.5°	1.4
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)