

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: P643805

Luminaire Tested: ML5615LSWFL559FS1E - 593BB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593BB - 1500LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

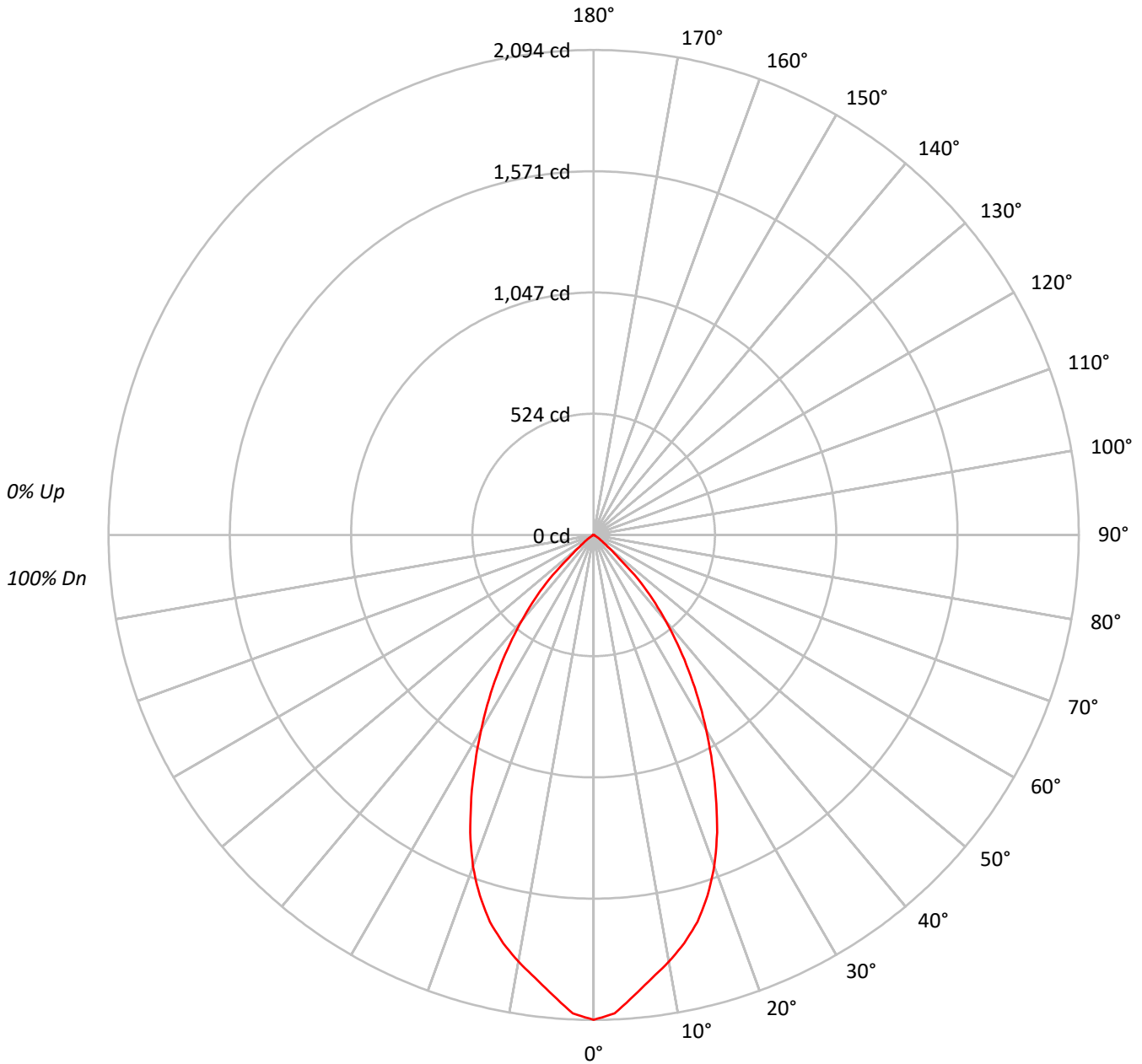
Lumens per Lamp: N/A
Luminaire Lumens: 1922.2 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P643805
CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643805

CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 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	106	111	108	106	104	104	102	101	101	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	85	91	87	84	89	85	82	86	83	81	79																			
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73																			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68																			
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165286
5°	158215
10°	149977
15°	141345
20°	127909
25°	108746
30°	88501
35°	68846
40°	49567
45°	30399
50°	9984
55°	4377
60°	1121
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30399 cd/sqm



TEST NUMBER: P643805

CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	9.7
10°-20°	481.6	25.1
20°-30°	570.3	29.7
30°-40°	445.4	23.2
40°-50°	203.7	10.6
50°-60°	32.3	1.7
60°-70°	2.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1238.6	64.4
0°-40°	1684.0	87.6
0°-60°	1920.0	99.9
0°-90°	1922.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2094	
5°	1997	187
15°	1730	482
25°	1248	570
35°	714	445
45°	272	204
55°	32	32
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643805
CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2093.8
2.5°	2067.3
5°	1996.6
7.5°	1929.4
10°	1871.0
12.5°	1805.6
15°	1729.5
17.5°	1634.0
20°	1522.6
22.5°	1391.8
25°	1248.5
27.5°	1107.0
30°	970.9
32.5°	840.0
35°	714.4
37.5°	594.2
40°	481.0
42.5°	376.7
45°	272.3
47.5°	145.0
50°	81.3
52.5°	51.3
55°	31.8
57.5°	19.5
60°	7.1
62.5°	3.5
65°	1.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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

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)