

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



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: P643883

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

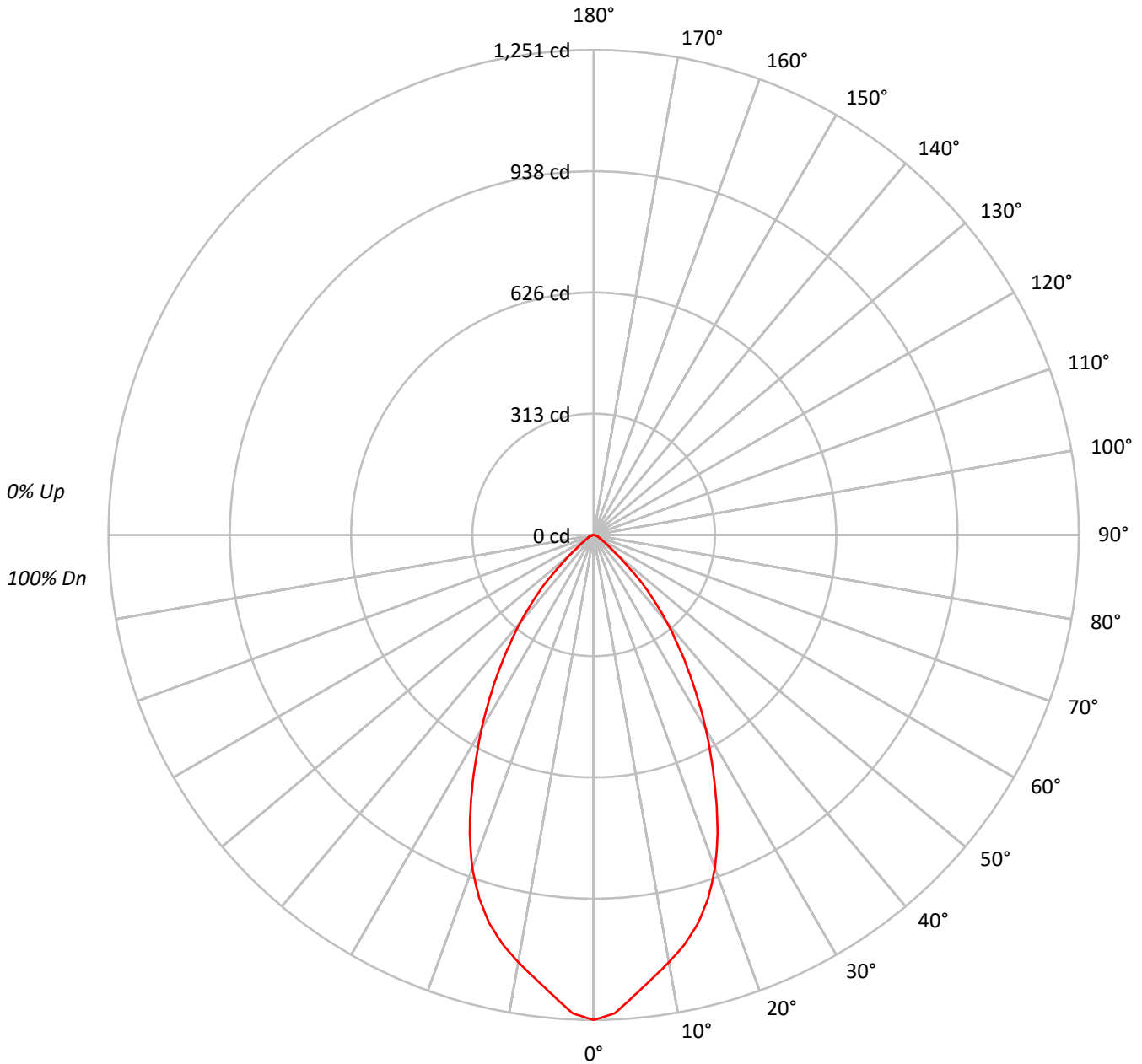
Lumens per Lamp: N/A
Luminaire Lumens: 1201.3 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P643883
CATALOG NUMBER: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643883

CATALOG NUMBER: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K

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	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	110	108	105	103	104	102	100	100	98	97	97	95	94	92																																				
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																																				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																																				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																																				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																																				
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98771
5°	94544
10°	89706
15°	84815
20°	76791
25°	64987
30°	52696
35°	40938
40°	30163
45°	19816
50°	9604
55°	5092
60°	3331
65°	2764
70°	2193
75°	1617
80°	955
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19816 cd/sqm



TEST NUMBER: P643883

CATALOG NUMBER: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	9.3
10°-20°	288.9	24.0
20°-30°	341.0	28.4
30°-40°	265.7	22.1
40°-50°	135.8	11.3
50°-60°	37.0	3.1
60°-70°	15.0	1.3
70°-80°	5.7	0.5
80°-90°	0.6	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°	741.5	61.7
0°-40°	1007.2	83.8
0°-60°	1180.0	98.2
0°-90°	1201.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1251	
5°	1193	112
15°	1038	289
25°	746	341
35°	425	266
45°	178	136
55°	37	37
65°	15	15
75°	5	6
85°	0	1
90°	0	



TEST NUMBER: P643883

CATALOG NUMBER: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1251.2
2.5°	1235.4
5°	1193.1
7.5°	1154.0
10°	1119.1
12.5°	1082.1
15°	1037.8
17.5°	981.8
20°	914.1
22.5°	834.9
25°	746.1
27.5°	659.4
30°	578.1
32.5°	498.8
35°	424.8
37.5°	355.1
40°	292.7
42.5°	233.5
45°	177.5
47.5°	117.3
50°	78.2
52.5°	52.8
55°	37.0
57.5°	27.5
60°	21.1
62.5°	18.0
65°	14.8
67.5°	12.7
70°	9.5
72.5°	7.4
75°	5.3
77.5°	3.2
80°	2.1
82.5°	1.1
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)