

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: P643738

Luminaire Tested: ML5615LSWFL559FS1E - 591WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 591WB - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

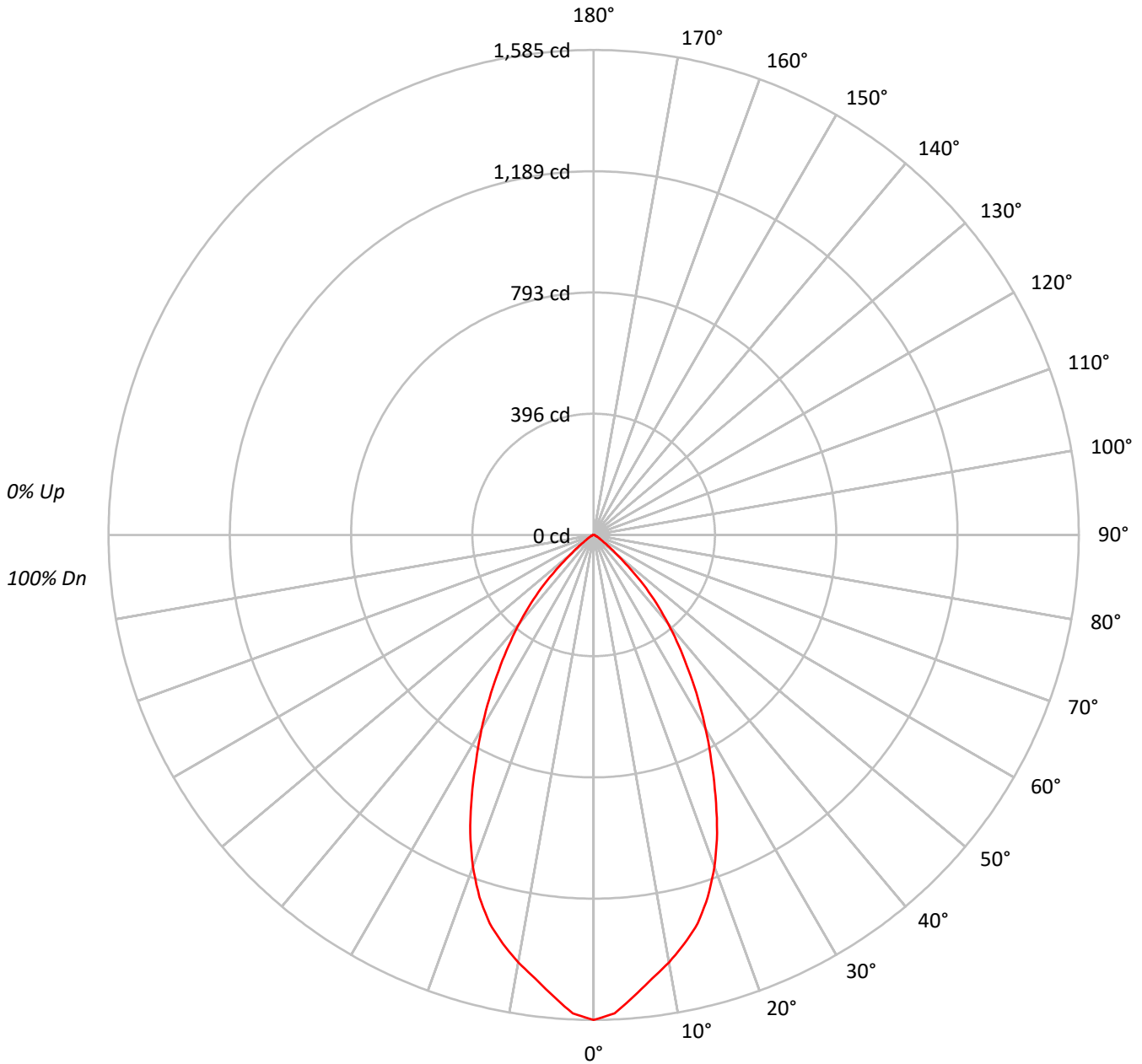
Lumens per Lamp: N/A
Luminaire Lumens: 1507.3 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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Luminous Intensity Polar Plot





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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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78																			
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72																			
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67																			
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62																			
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57																			
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53																			
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50																			
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125137
5°	119902
10°	113689
15°	107396
20°	96936
25°	82006
30°	66715
35°	52126
40°	38943
45°	25644
50°	11974
55°	4968
60°	2952
65°	1737
70°	1223
75°	1220
80°	1227
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	9.4
10°-20°	365.4	24.2
20°-30°	430.4	28.6
30°-40°	339.1	22.5
40°-50°	175.6	11.7
50°-60°	39.1	2.6
60°-70°	10.2	0.7
70°-80°	4.2	0.3
80°-90°	1.8	0.1
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°	937.3	62.2
0°-40°	1276.5	84.7
0°-60°	1491.1	98.9
0°-90°	1507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1585	
5°	1513	141
15°	1314	365
25°	942	430
35°	541	339
45°	230	176
55°	36	39
65°	9	10
75°	4	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1585.2
2.5°	1565.2
5°	1513.1
7.5°	1462.4
10°	1418.3
12.5°	1368.9
15°	1314.1
17.5°	1240.7
20°	1153.9
22.5°	1053.7
25°	941.5
27.5°	832.0
30°	731.9
32.5°	634.4
35°	540.9
37.5°	456.7
40°	377.9
42.5°	303.2
45°	229.7
47.5°	152.2
50°	97.5
52.5°	58.8
55°	36.1
57.5°	24.0
60°	18.7
62.5°	13.4
65°	9.3
67.5°	6.7
70°	5.3
72.5°	4.0
75°	4.0
77.5°	4.0
80°	2.7
82.5°	2.7
85°	1.3
87.5°	1.3
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)