

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: P643892

Luminaire Tested: ML5615LSWFL559FS1E - 594WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594WB - 1500LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

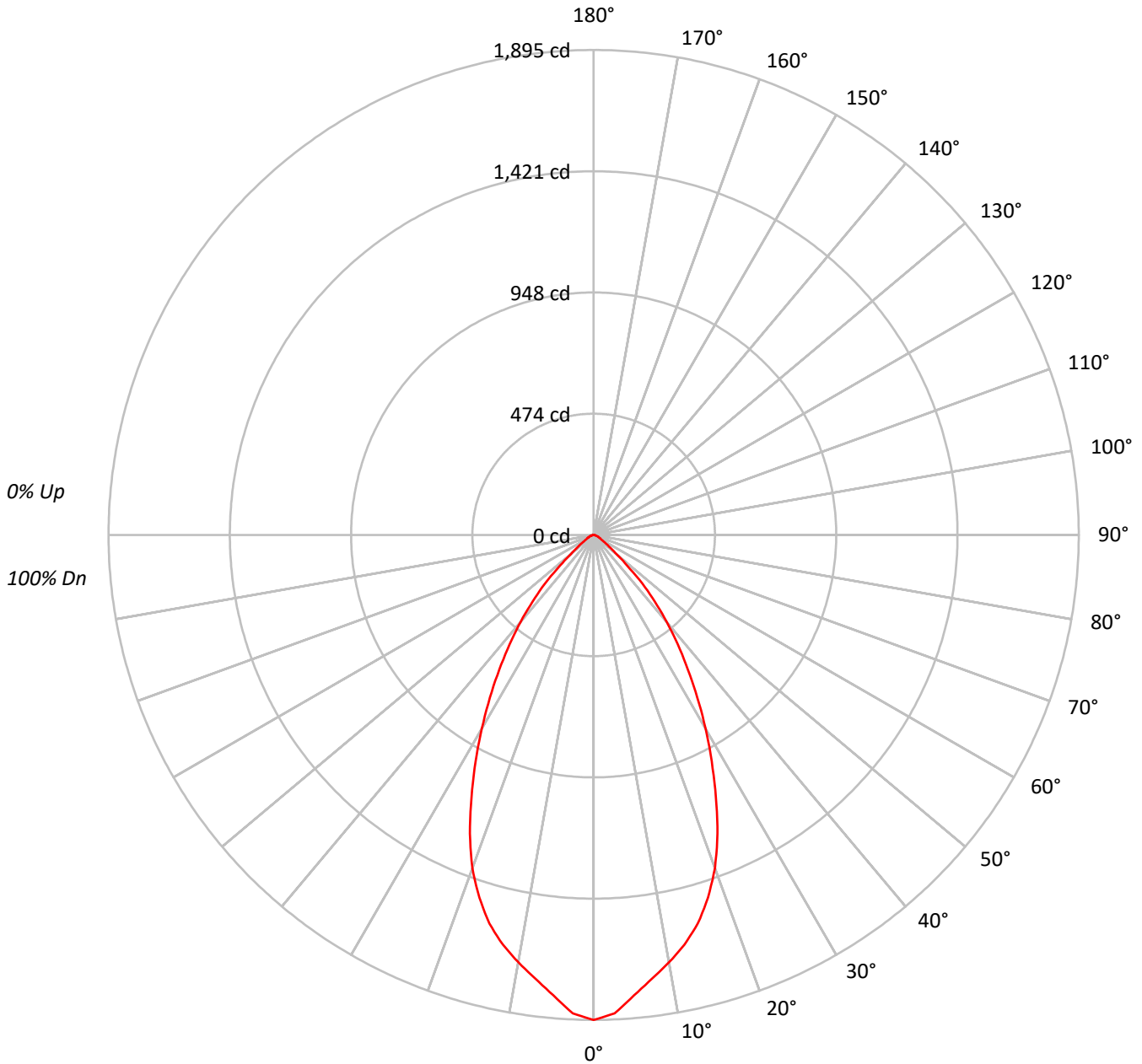
Lumens per Lamp: N/A
Luminaire Lumens: 1818.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	149625
5°	143096
10°	135909
15°	128497
20°	116367
25°	98355
30°	79604
35°	61811
40°	45661
45°	29997
50°	14344
55°	7707
60°	5305
65°	4184
70°	3693
75°	2440
80°	1455
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	9.3
10°-20°	437.6	24.1
20°-30°	516.0	28.4
30°-40°	401.8	22.1
40°-50°	205.2	11.3
50°-60°	56.0	3.1
60°-70°	23.1	1.3
70°-80°	8.8	0.5
80°-90°	0.9	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°	1122.7	61.7
0°-40°	1524.5	83.8
0°-60°	1785.7	98.2
0°-90°	1818.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1895	
5°	1806	169
15°	1572	438
25°	1129	516
35°	641	402
45°	269	205
55°	56	56
65°	22	23
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1895.4
2.5°	1871.4
5°	1805.8
7.5°	1748.2
10°	1695.5
12.5°	1639.5
15°	1572.3
17.5°	1485.9
20°	1385.2
22.5°	1263.6
25°	1129.2
27.5°	998.1
30°	873.3
32.5°	753.4
35°	641.4
37.5°	539.0
40°	443.1
42.5°	353.5
45°	268.7
47.5°	175.9
50°	116.8
52.5°	80.0
55°	56.0
57.5°	41.6
60°	33.6
62.5°	27.2
65°	22.4
67.5°	19.2
70°	16.0
72.5°	11.2
75°	8.0
77.5°	4.8
80°	3.2
82.5°	1.6
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

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— 0°-180°

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