

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: P644074

Luminaire Tested: ML5615LSWFL559FS1E - 696WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 696WB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

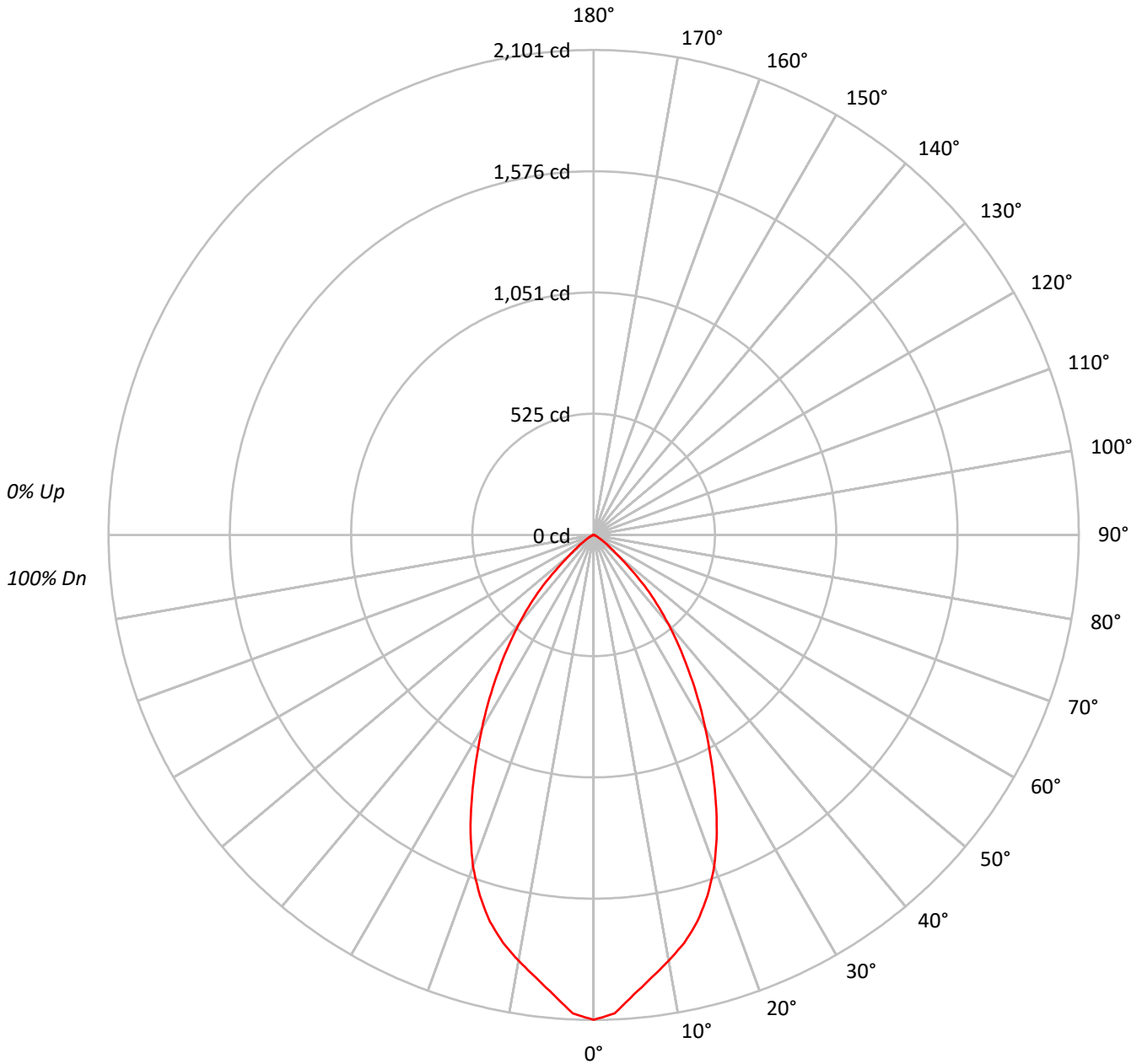
Lumens per Lamp: N/A
Luminaire Lumens: 2006.3 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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				100															
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78				78															
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66				66															
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61				61															
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57				57															
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53															
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115166
5°	109960
10°	104240
15°	98451
20°	89129
25°	75410
30°	61231
35°	47930
40°	35939
45°	23995
50°	11616
55°	6088
60°	3103
65°	2062
70°	850
75°	741
80°	568
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	9.3
10°-20°	482.9	24.1
20°-30°	569.6	28.4
30°-40°	449.3	22.4
40°-50°	235.5	11.7
50°-60°	61.6	3.1
60°-70°	15.4	0.8
70°-80°	3.7	0.2
80°-90°	1.2	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°	1239.6	61.8
0°-40°	1688.9	84.2
0°-60°	1986.0	99.0
0°-90°	2006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2101	
5°	1998	187
15°	1735	483
25°	1247	570
35°	716	449
45°	310	236
55°	64	62
65°	16	15
75°	4	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2100.8
2.5°	2074.2
5°	1998.2
7.5°	1932.8
10°	1872.6
12.5°	1810.8
15°	1734.7
17.5°	1639.2
20°	1527.8
22.5°	1393.4
25°	1246.7
27.5°	1101.7
30°	967.3
32.5°	839.9
35°	716.2
37.5°	606.5
40°	502.2
42.5°	403.2
45°	309.5
47.5°	205.1
50°	136.2
52.5°	92.0
55°	63.7
57.5°	40.7
60°	28.3
62.5°	21.2
65°	15.9
67.5°	8.8
70°	5.3
72.5°	3.5
75°	3.5
77.5°	3.5
80°	1.8
82.5°	1.8
85°	1.8
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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(END OF REPORT)