

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: P644078

Luminaire Tested: ML5615LSWFL559FS1E - 696WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644078
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 - 900LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

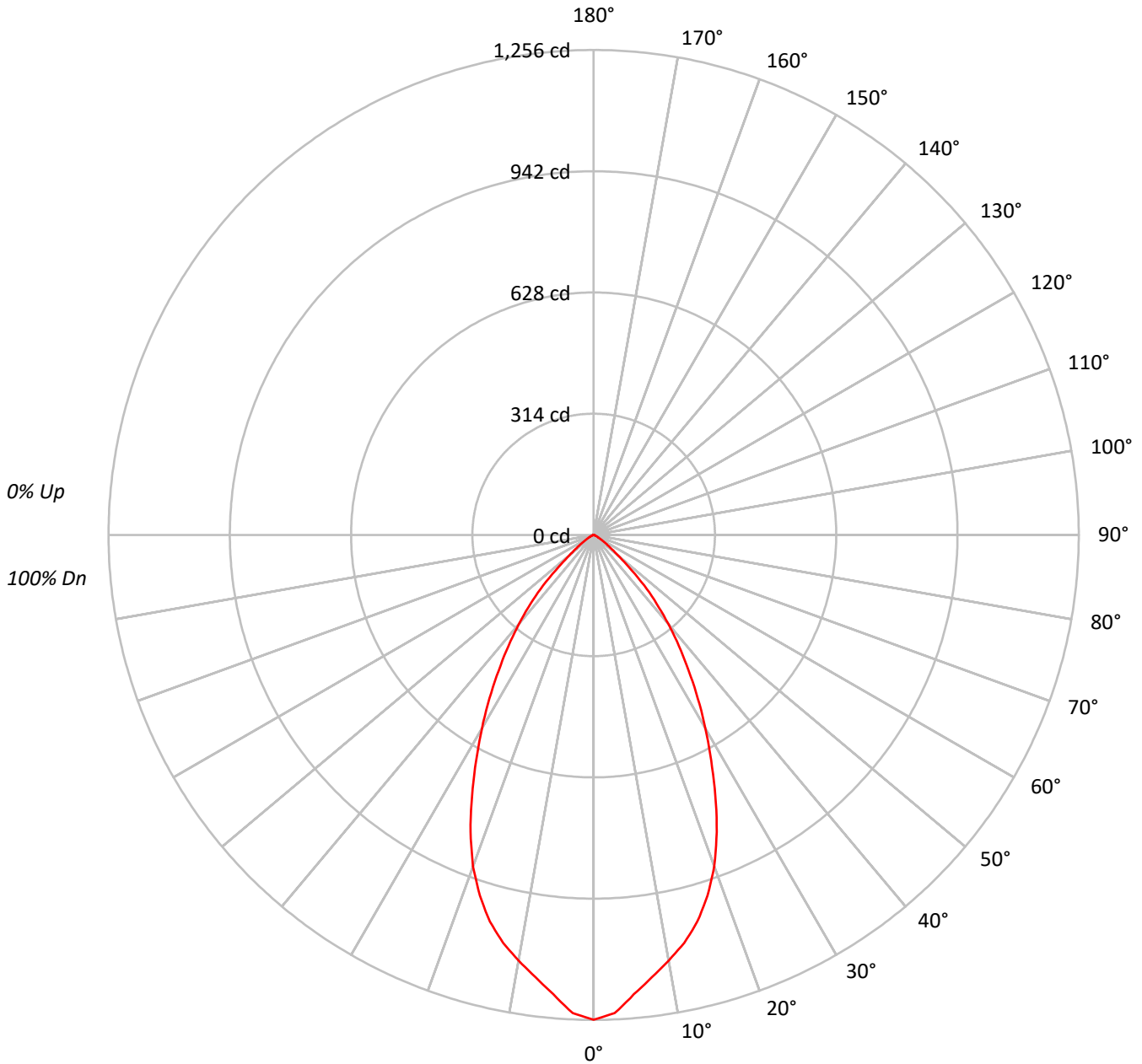
Lumens per Lamp: N/A
Luminaire Lumens: 1199.3 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	68838
5°	65727
10°	62307
15°	58848
20°	53275
25°	45075
30°	36601
35°	28650
40°	21483
45°	14343
50°	6942
55°	3641
60°	1853
65°	1232
70°	513
75°	445
80°	347
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14343 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	9.3
10°-20°	288.7	24.1
20°-30°	340.5	28.4
30°-40°	268.6	22.4
40°-50°	140.8	11.7
50°-60°	36.8	3.1
60°-70°	9.2	0.8
70°-80°	2.2	0.2
80°-90°	0.7	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°	740.9	61.8
0°-40°	1009.5	84.2
0°-60°	1187.1	99.0
0°-90°	1199.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1256	
5°	1194	112
15°	1037	289
25°	745	340
35°	428	269
45°	185	141
55°	38	37
65°	10	9
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1255.7
2.5°	1239.8
5°	1194.4
7.5°	1155.2
10°	1119.3
12.5°	1082.3
15°	1036.9
17.5°	979.8
20°	913.2
22.5°	832.9
25°	745.2
27.5°	658.5
30°	578.2
32.5°	502.1
35°	428.1
37.5°	362.5
40°	300.2
42.5°	241.0
45°	185.0
47.5°	122.6
50°	81.4
52.5°	55.0
55°	38.1
57.5°	24.3
60°	16.9
62.5°	12.7
65°	9.5
67.5°	5.3
70°	3.2
72.5°	2.1
75°	2.1
77.5°	2.1
80°	1.1
82.5°	1.1
85°	1.1
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)