

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: P644031

Luminaire Tested: ML5615LSWFL559FS1E - 693WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-63)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693WB - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

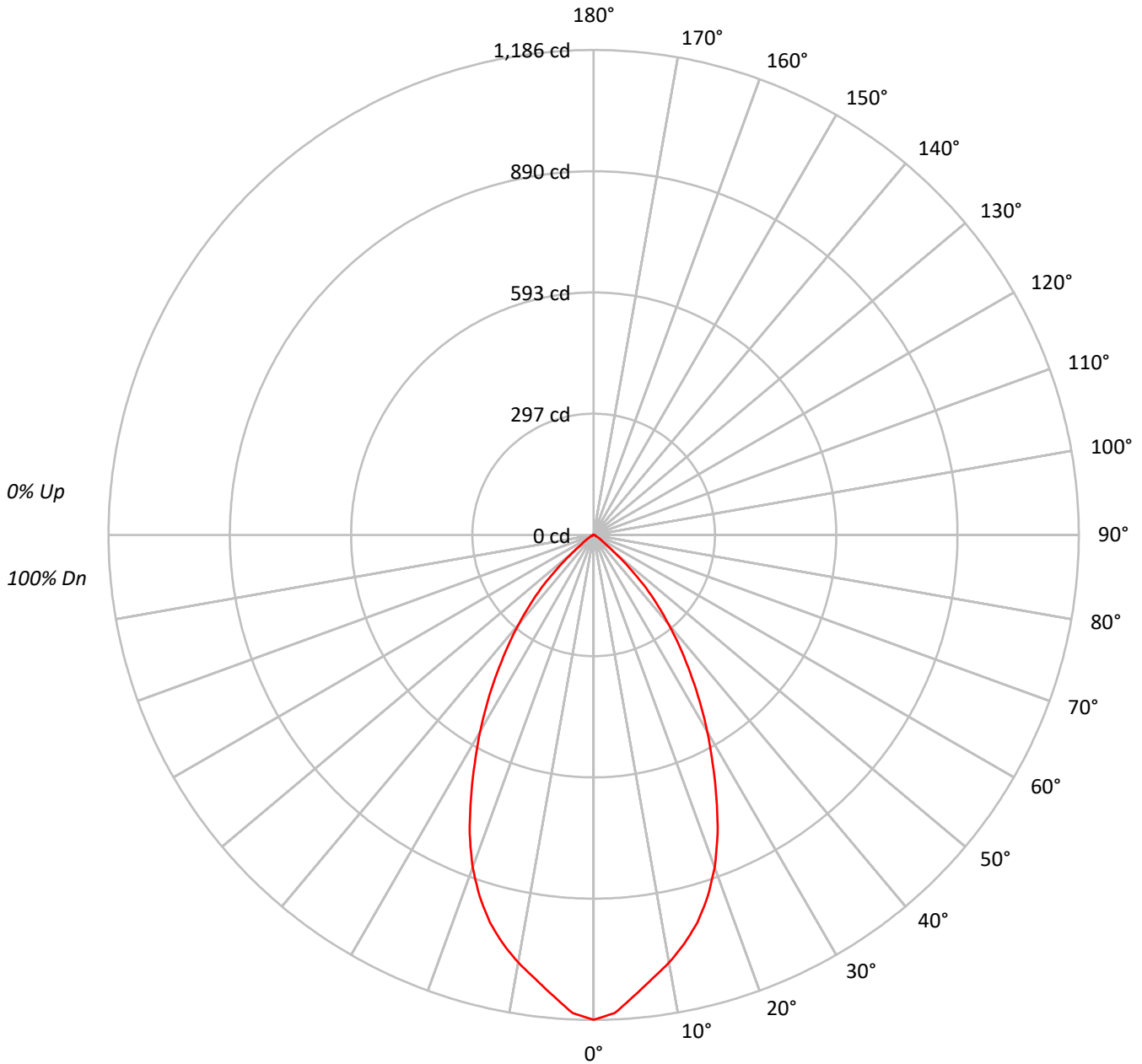
Lumens per Lamp: N/A
Luminaire Lumens: 1129.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78															
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67				67															
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62				62															
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57				57															
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50				50															
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65000
5°	62277
10°	59106
15°	55664
20°	50451
25°	42934
30°	35126
35°	27499
40°	20388
45°	13412
50°	5799
55°	2389
60°	1316
65°	649
70°	641
75°	635
80°	631
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13412 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	9.4
10°-20°	273.2	24.2
20°-30°	324.5	28.7
30°-40°	257.2	22.8
40°-50°	131.1	11.6
50°-60°	26.7	2.4
60°-70°	5.9	0.5
70°-80°	3.2	0.3
80°-90°	1.4	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°	703.6	62.3
0°-40°	960.7	85.1
0°-60°	1118.6	99.1
0°-90°	1129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1186	
5°	1132	106
15°	981	273
25°	710	325
35°	411	257
45°	173	131
55°	25	27
65°	5	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1185.7
2.5°	1170.7
5°	1131.7
7.5°	1094.7
10°	1061.8
12.5°	1023.8
15°	980.8
17.5°	926.8
20°	864.8
22.5°	791.8
25°	709.8
27.5°	629.9
30°	554.9
32.5°	481.9
35°	410.9
37.5°	345.9
40°	284.9
42.5°	226.9
45°	173.0
47.5°	113.0
50°	68.0
52.5°	38.0
55°	25.0
57.5°	18.0
60°	12.0
62.5°	7.0
65°	5.0
67.5°	4.0
70°	4.0
72.5°	3.0
75°	3.0
77.5°	3.0
80°	2.0
82.5°	2.0
85°	1.0
87.5°	1.0
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)