

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: P642096

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

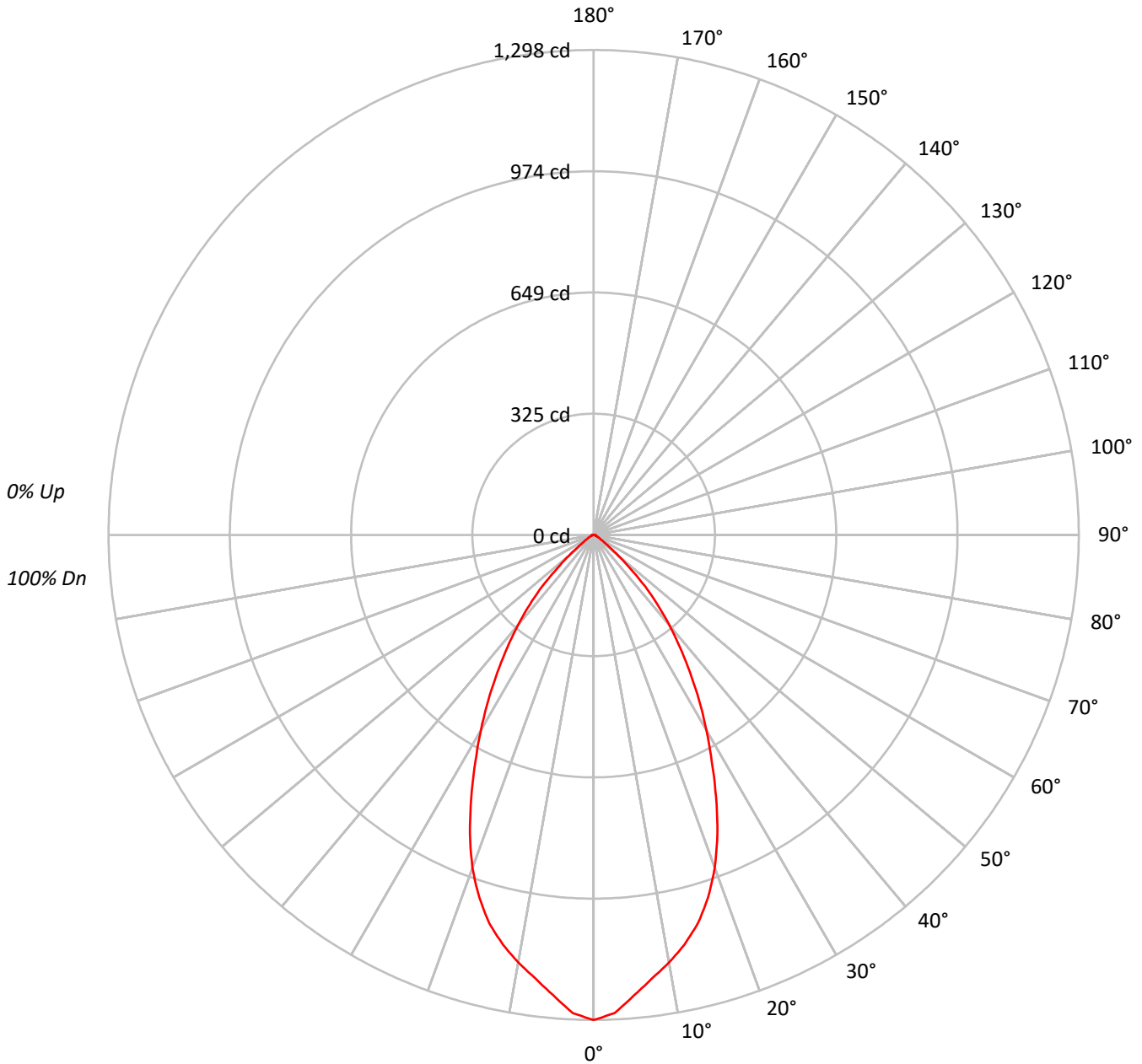
Lumens per Lamp: N/A
Luminaire Lumens: 1254.7 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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					70					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	110	108	105	103	104	102	100	100	98	97	96	95	94	92				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				
4	95	87	81	76	93	86	80	76	84	79	75	81	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	67	63	71	67	63	70	66	63	61				
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53				
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49				
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102489
5°	98039
10°	93144
15°	88010
20°	79647
25°	67469
30°	54993
35°	43212
40°	32492
45°	21680
50°	10451
55°	4652
60°	2921
65°	2036
70°	1500
75°	1007
80°	2000
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	9.2
10°-20°	299.7	23.9
20°-30°	354.0	28.2
30°-40°	280.9	22.4
40°-50°	148.0	11.8
50°-60°	36.0	2.9
60°-70°	11.4	0.9
70°-80°	5.2	0.4
80°-90°	3.6	0.3
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°	769.6	61.3
0°-40°	1050.4	83.7
0°-60°	1234.5	98.4
0°-90°	1254.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1298	
5°	1237	116
15°	1077	300
25°	775	354
35°	448	281
45°	194	148
55°	34	36
65°	11	11
75°	3	5
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1298.3
2.5°	1280.9
5°	1237.2
7.5°	1196.9
10°	1162.0
12.5°	1122.7
15°	1076.9
17.5°	1017.9
20°	948.1
22.5°	865.2
25°	774.6
27.5°	685.2
30°	603.3
32.5°	524.8
35°	448.4
37.5°	378.6
40°	315.3
42.5°	253.1
45°	194.2
47.5°	129.8
50°	85.1
52.5°	53.5
55°	33.8
57.5°	24.0
60°	18.5
62.5°	14.2
65°	10.9
67.5°	8.7
70°	6.5
72.5°	5.5
75°	3.3
77.5°	5.5
80°	4.4
82.5°	4.4
85°	3.3
87.5°	3.3
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)