

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: P642172

Luminaire Tested: ML5612LSWFL5597FS1E - 693BB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693BB - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

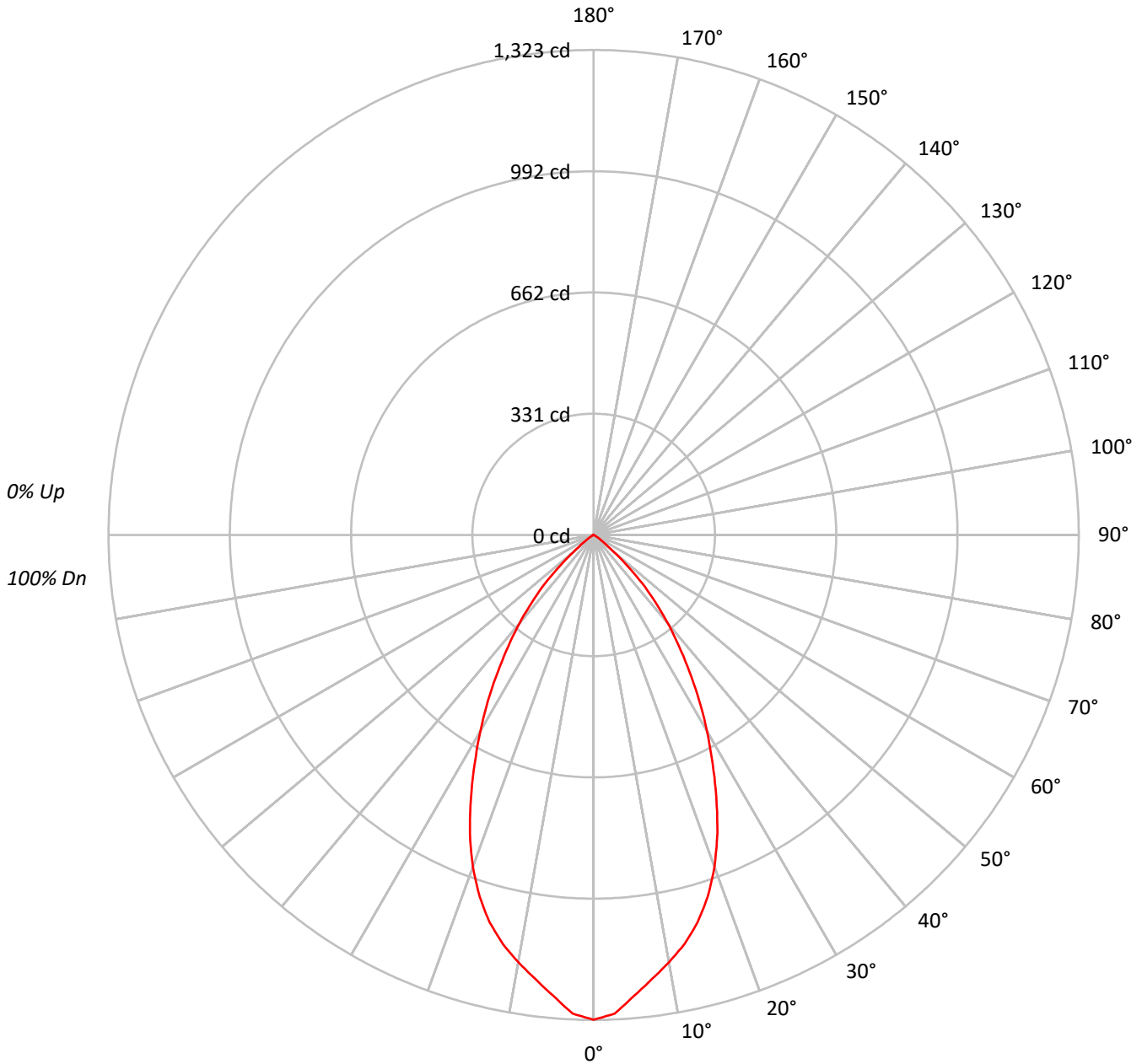
Lumens per Lamp: N/A
Luminaire Lumens: 1240.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50			
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72511
5°	69453
10°	65881
15°	62134
20°	56203
25°	47882
30°	39095
35°	30437
40°	22499
45°	14622
50°	6030
55°	2256
60°	987
65°	143
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14622 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	9.5
10°-20°	304.8	24.6
20°-30°	361.5	29.2
30°-40°	285.0	23.0
40°-50°	143.1	11.5
50°-60°	25.4	2.0
60°-70°	2.2	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	784.4	63.3
0°-40°	1069.4	86.2
0°-60°	1237.9	99.8
0°-90°	1240.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1323	
5°	1262	118
15°	1095	305
25°	792	362
35°	455	285
45°	189	143
55°	24	25
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1322.7
2.5°	1307.0
5°	1262.1
7.5°	1221.7
10°	1183.5
12.5°	1143.1
15°	1094.8
17.5°	1034.2
20°	963.4
22.5°	881.4
25°	791.6
27.5°	701.8
30°	617.6
32.5°	535.6
35°	454.8
37.5°	381.8
40°	314.4
42.5°	249.3
45°	188.6
47.5°	122.4
50°	70.7
52.5°	37.1
55°	23.6
57.5°	14.6
60°	9.0
62.5°	3.4
65°	1.1
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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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(END OF REPORT)