

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: P640991

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 1200LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

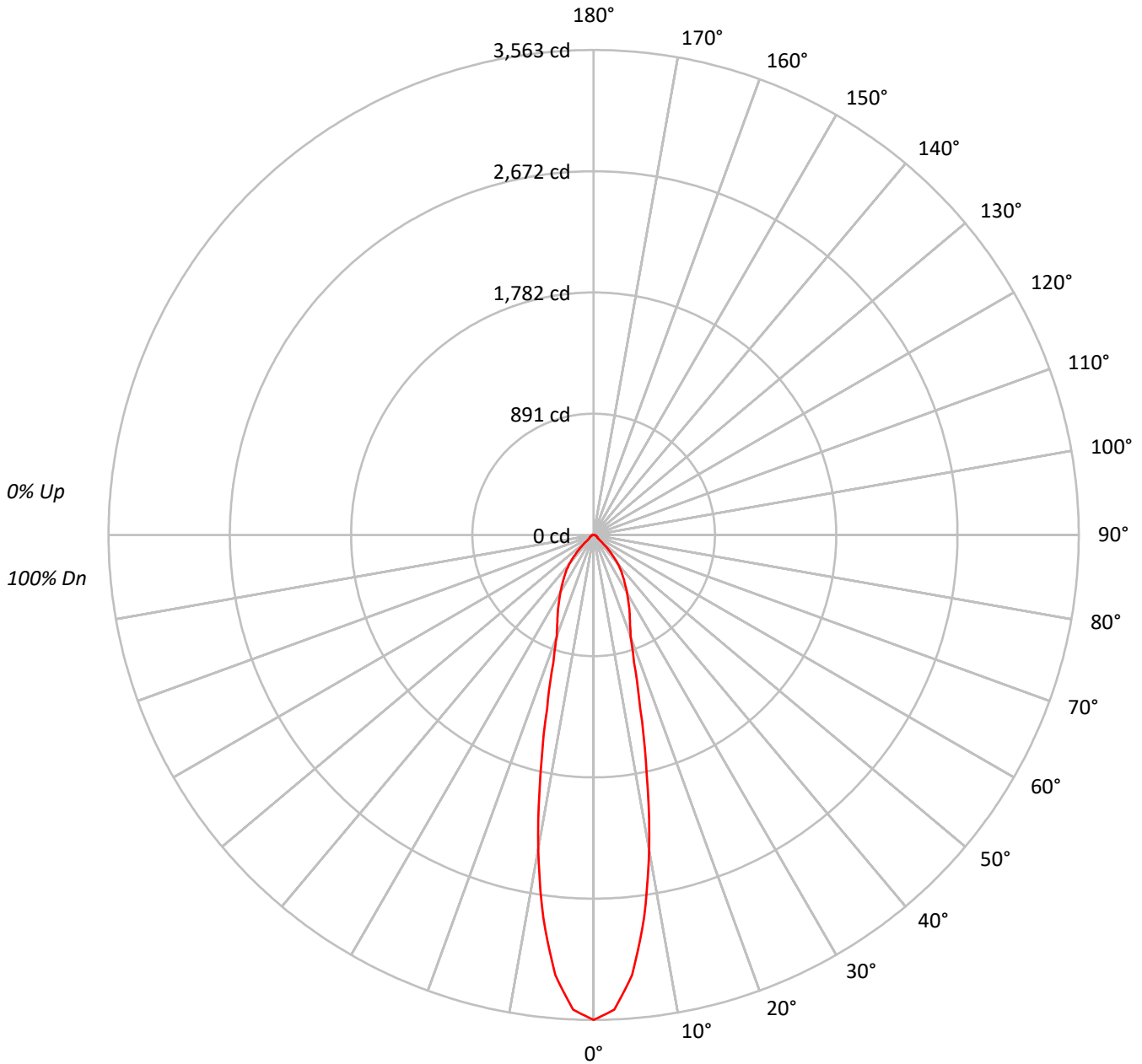
Lumens per Lamp: N/A  
Luminaire Lumens: 1378.9 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): 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	100	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75	75	75	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54	54	54	54

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	281266
5°	256999
10°	188253
15°	108009
20°	66618
25°	54221
30°	44574
35°	36302
40°	28596
45°	17561
50°	6497
55°	4913
60°	4594
65°	4203
70°	4270
75°	4423
80°	4228
85°	4800

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.3	20.3
10°-20°	379.7	27.5
20°-30°	286.6	20.8
30°-40°	236.0	17.1
40°-50°	120.2	8.7
50°-60°	33.6	2.4
60°-70°	22.9	1.7
70°-80°	14.8	1.1
80°-90°	4.9	0.4
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°	946.6	68.6
0°-40°	1182.6	85.8
0°-60°	1336.3	96.9
0°-90°	1378.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3563	
5°	3243	280
15°	1322	380
25°	622	287
35°	377	236
45°	157	120
55°	36	34
65°	22	23
75°	14	15
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3563.0
2.5°	3490.4
5°	3243.2
7.5°	2837.5
10°	2348.5
12.5°	1805.3
15°	1321.6
17.5°	984.6
20°	793.0
22.5°	695.2
25°	622.5
27.5°	552.4
30°	489.0
32.5°	429.5
35°	376.7
37.5°	329.1
40°	277.5
42.5°	214.1
45°	157.3
47.5°	96.5
50°	52.9
52.5°	41.0
55°	35.7
57.5°	33.0
60°	29.1
62.5°	26.4
65°	22.5
67.5°	19.8
70°	18.5
72.5°	15.9
75°	14.5
77.5°	11.9
80°	9.3
82.5°	6.6
85°	5.3
87.5°	1.3
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)