

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: P641145

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

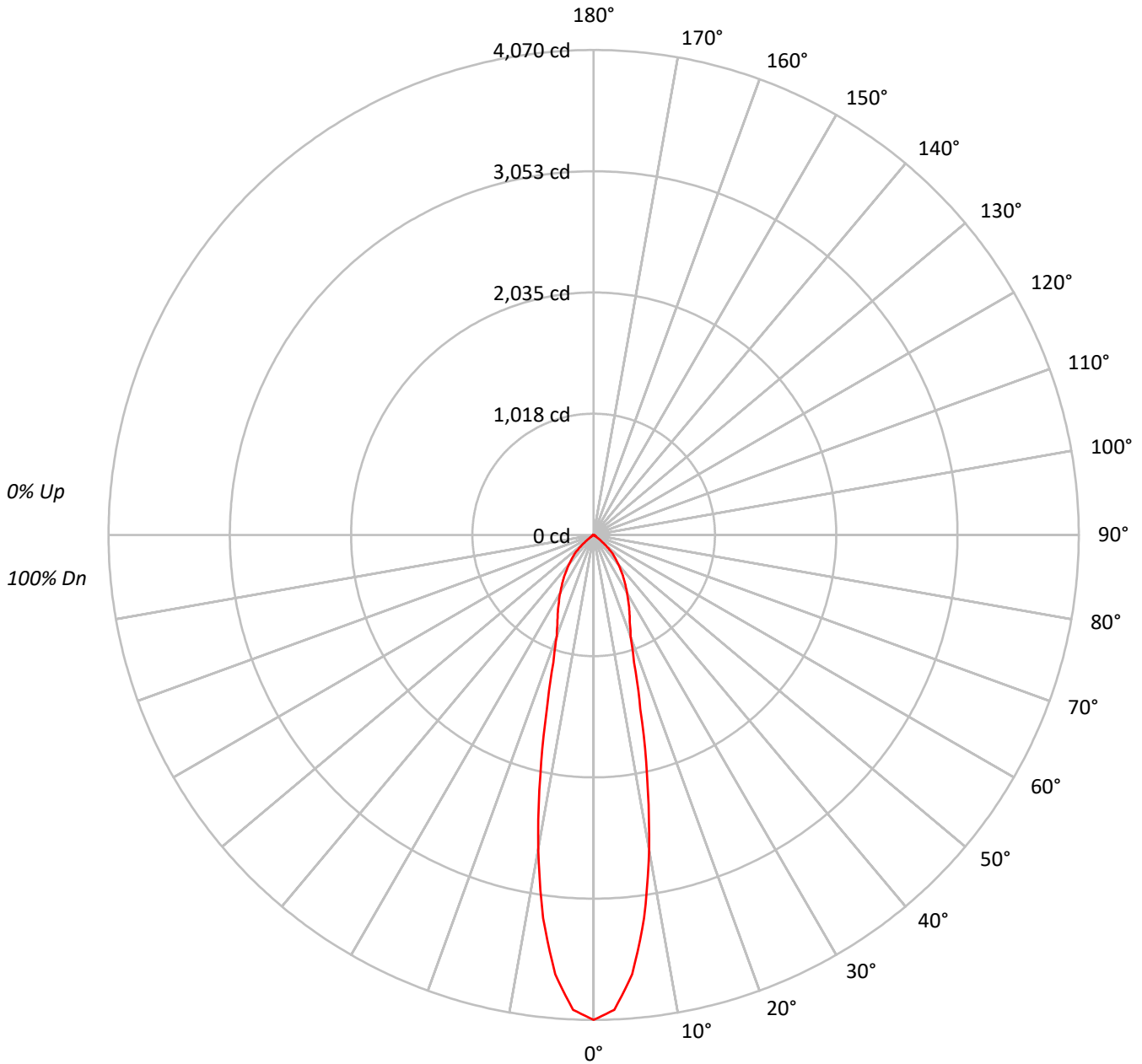
Lumens per Lamp: N/A  
Luminaire Lumens: 1563.6 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	100	100		
	1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	88	88	88		
	3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82	82	82	82	82	82		
	4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77	77	77	77	77	77		
	5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58	58	58	58	58		
	10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55	55	55	55	55	55		

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

	0°
0°	223113
5°	203637
10°	149084
15°	85880
20°	52808
25°	42952
30°	35448
35°	29038
40°	23100
45°	17808
50°	9475
55°	2437
60°	1480
65°	778
70°	240
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17808 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.1	20.5
10°-20°	434.0	27.8
20°-30°	327.3	20.9
30°-40°	270.8	17.3
40°-50°	169.4	10.8
50°-60°	34.8	2.2
60°-70°	6.3	0.4
70°-80°	1.0	0.1
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°	1081.4	69.2
0°-40°	1352.2	86.5
0°-60°	1556.3	99.5
0°-90°	1563.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4070	
5°	3700	320
15°	1513	434
25°	710	327
35°	434	271
45°	230	169
55°	26	35
65°	6	6
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4069.9
2.5°	3988.8
5°	3700.5
7.5°	3242.7
10°	2678.2
12.5°	2065.7
15°	1513.2
17.5°	1124.4
20°	905.2
22.5°	792.7
25°	710.1
27.5°	632.0
30°	560.0
32.5°	493.9
35°	433.9
37.5°	373.8
40°	322.8
42.5°	273.2
45°	229.7
47.5°	166.6
50°	111.1
52.5°	52.5
55°	25.5
57.5°	18.0
60°	13.5
62.5°	9.0
65°	6.0
67.5°	3.0
70°	1.5
72.5°	1.5
75°	0.0
77.5°	1.5
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)