

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: P641965

Luminaire Tested: ML5612LSWFL5597FS1E - 592SC - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 592SC - 900LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

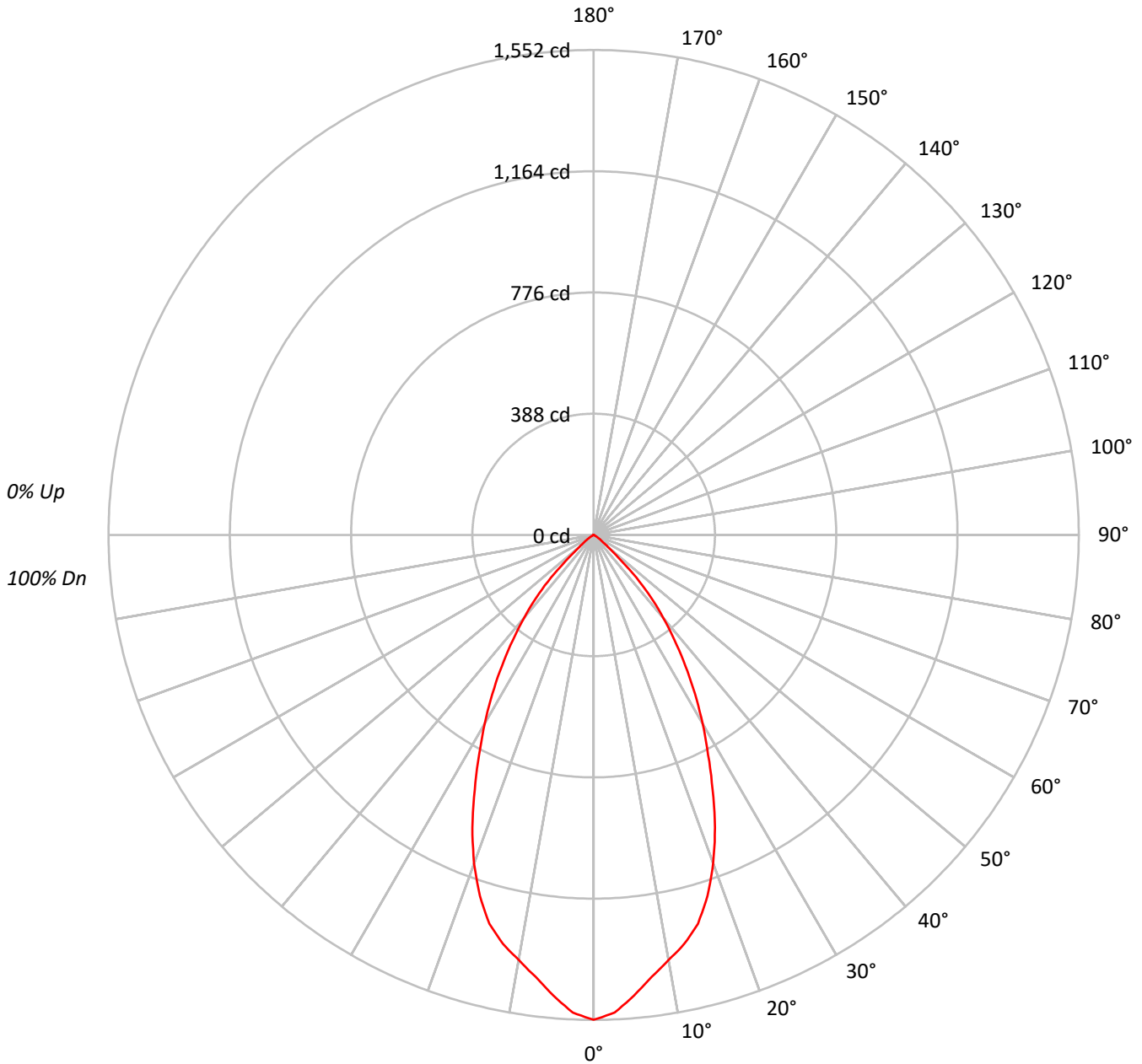
Lumens per Lamp: N/A  
Luminaire Lumens: 1398.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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	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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93	93	93	93	93	93		
	2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86	86	86		
	3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80	80	80	80	80	80		
	4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74	74	74	74	74	74		
	5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68	68	68	68	68	68		
	6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63	63	63	63	63	63		
	7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59	59	59	59	59	59		
	8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55	55	55		
	9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51	51	51		
	10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48	48	48	48	48	48		

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

	0°
0°	122477
5°	117239
10°	110731
15°	105295
20°	93945
25°	78383
30°	63470
35°	49283
40°	35686
45°	21613
50°	7160
55°	3248
60°	979
65°	224
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21613 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.1	9.9
10°-20°	357.0	25.5
20°-30°	412.4	29.5
30°-40°	319.3	22.8
40°-50°	146.7	10.5
50°-60°	23.3	1.7
60°-70°	1.7	0.1
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°	907.5	64.9
0°-40°	1226.7	87.7
0°-60°	1396.7	99.9
0°-90°	1398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1552	
5°	1480	138
15°	1288	357
25°	900	412
35°	511	319
45°	194	147
55°	24	23
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1551.5
2.5°	1530.4
5°	1479.5
7.5°	1426.1
10°	1381.4
12.5°	1340.5
15°	1288.4
17.5°	1211.4
20°	1118.3
22.5°	1014.1
25°	899.9
27.5°	793.1
30°	696.3
32.5°	603.2
35°	511.4
37.5°	424.5
40°	346.3
42.5°	271.8
45°	193.6
47.5°	106.7
50°	58.3
52.5°	36.0
55°	23.6
57.5°	13.7
60°	6.2
62.5°	2.5
65°	1.2
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)