

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: P643061

Luminaire Tested: ML5615LSVWFL759FS1E - 592H - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 592H - 1200LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

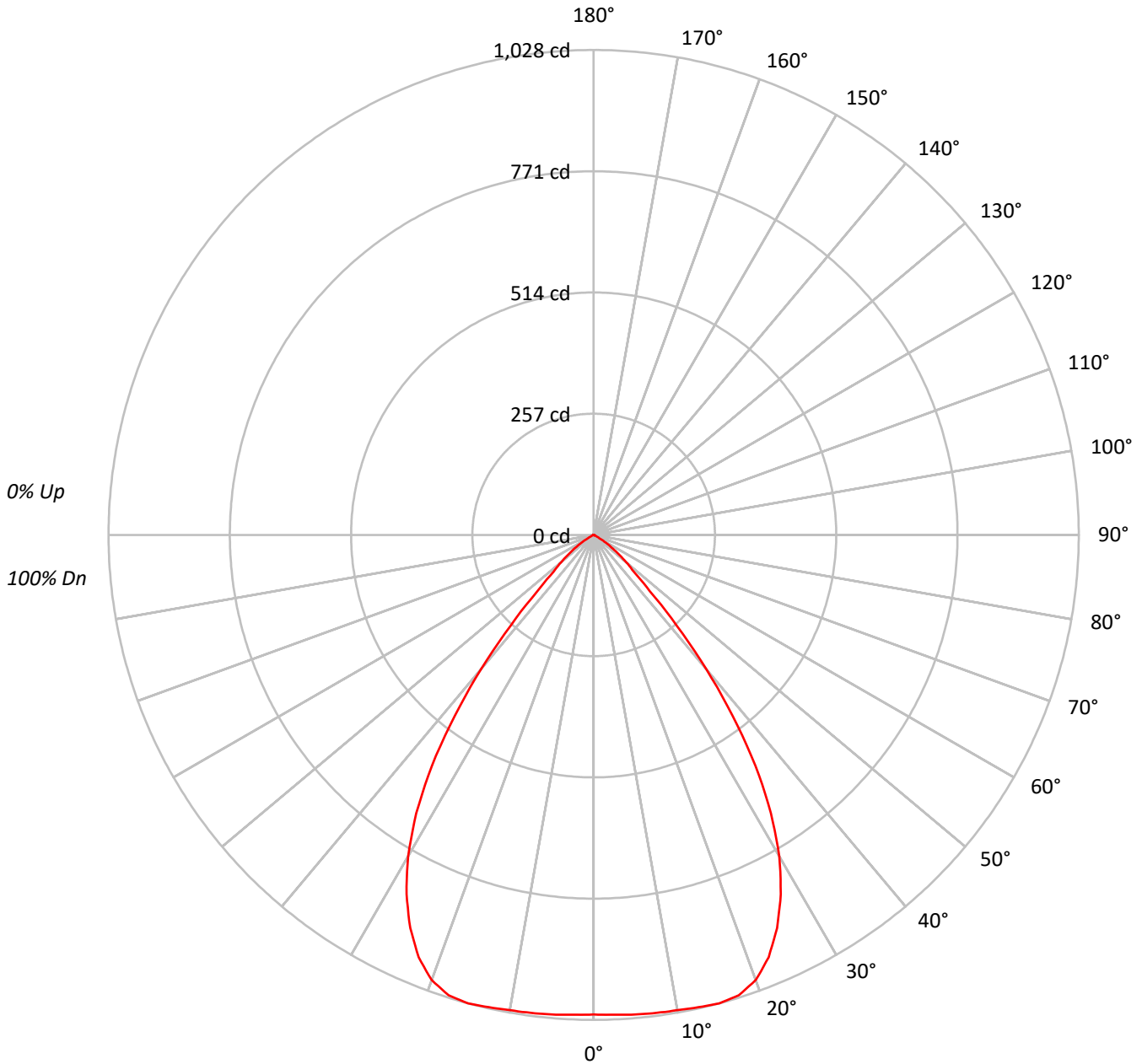
Lumens per Lamp: N/A  
Luminaire Lumens: 1366.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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									
RC	80									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													
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93						93													
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85						85													
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78						78													
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71						71													
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65						65													
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60						60													
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55						55													
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51						51													
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48						48													
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44						44													

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

	0°
0°	80259
5°	80867
10°	82002
15°	84022
20°	84352
25°	80081
30°	71701
35°	57638
40°	38180
45°	18778
50°	11028
55°	6441
60°	2195
65°	467
70°	300
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18778 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	7.1
10°-20°	289.7	21.2
20°-30°	418.5	30.6
30°-40°	365.3	26.7
40°-50°	146.8	10.7
50°-60°	43.0	3.2
60°-70°	4.6	0.3
70°-80°	0.5	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°	805.6	59.0
0°-40°	1171.0	85.7
0°-60°	1360.8	99.6
0°-90°	1366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1017	
5°	1020	97
15°	1028	290
25°	919	418
35°	598	365
45°	168	147
55°	47	43
65°	2	5
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1016.7
2.5°	1018.0
5°	1020.5
7.5°	1021.8
10°	1023.0
12.5°	1025.6
15°	1028.1
17.5°	1023.0
20°	1004.1
22.5°	968.7
25°	919.4
27.5°	858.7
30°	786.6
32.5°	699.3
35°	598.1
37.5°	483.1
40°	370.5
42.5°	260.5
45°	168.2
47.5°	115.1
50°	89.8
52.5°	65.8
55°	46.8
57.5°	30.3
60°	13.9
62.5°	7.6
65°	2.5
67.5°	1.3
70°	1.3
72.5°	1.3
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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Scaled Data Report



(END OF REPORT)