

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: P643757

Luminaire Tested: ML5615LSWFL559FS1E - 592H - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592H - 1500LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

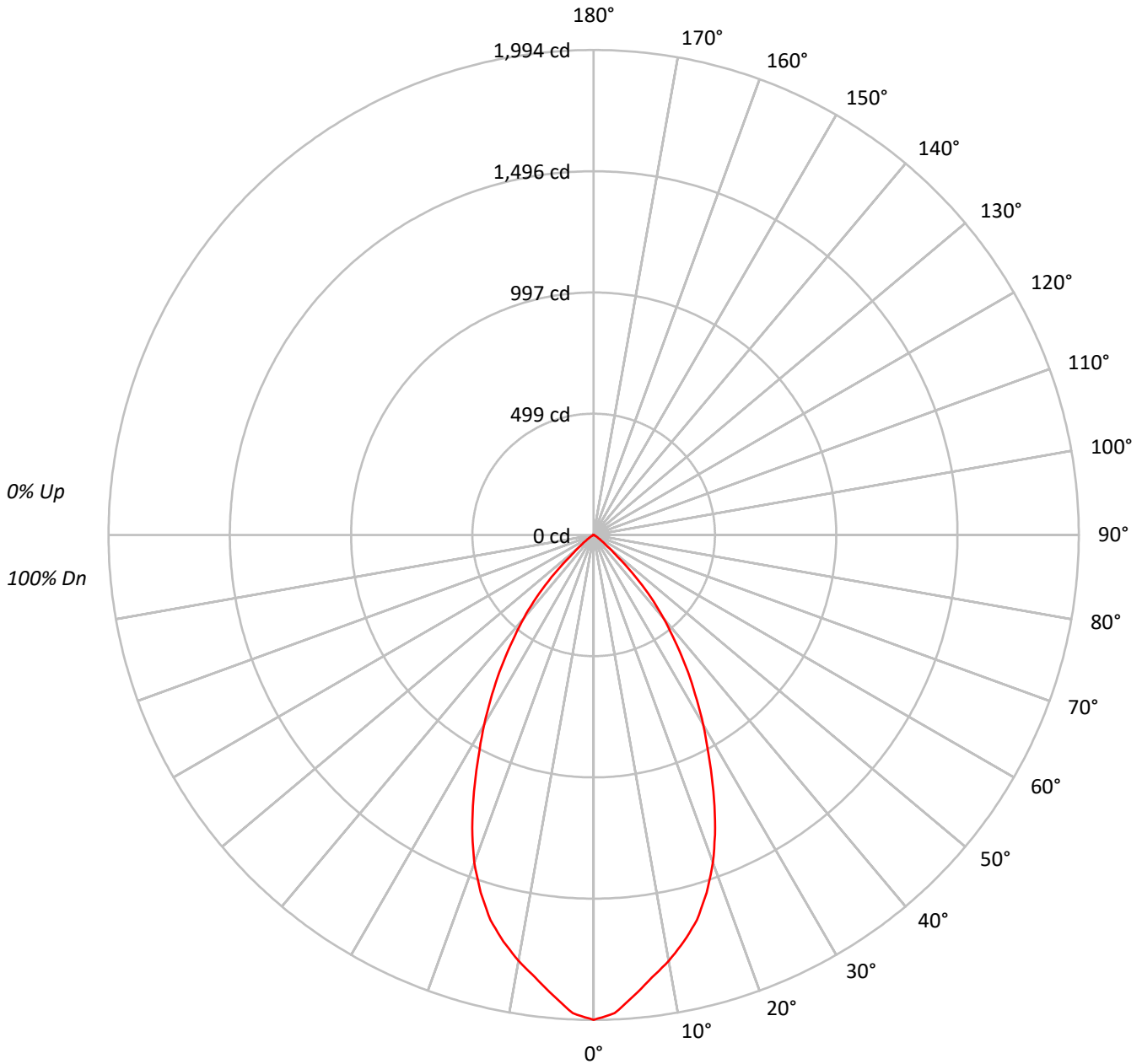
Lumens per Lamp: N/A
Luminaire Lumens: 1796.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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																			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80																			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74																			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68																			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63																			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157408
5°	150656
10°	142522
15°	133932
20°	120458
25°	101343
30°	81983
35°	63690
40°	46012
45°	27340
50°	9235
55°	4184
60°	1263
65°	299
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27340 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	9.9
10°-20°	455.7	25.4
20°-30°	531.7	29.6
30°-40°	411.5	22.9
40°-50°	186.7	10.4
50°-60°	30.3	1.7
60°-70°	2.5	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°	1165.0	64.9
0°-40°	1576.5	87.8
0°-60°	1793.5	99.9
0°-90°	1796.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1994	
5°	1901	178
15°	1639	456
25°	1164	532
35°	661	411
45°	245	187
55°	30	30
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1994.0
2.5°	1968.4
5°	1901.2
7.5°	1835.6
10°	1778.0
12.5°	1712.4
15°	1638.8
17.5°	1542.7
20°	1433.9
22.5°	1304.3
25°	1163.5
27.5°	1024.2
30°	899.4
32.5°	776.2
35°	660.9
37.5°	545.7
40°	446.5
42.5°	348.9
45°	244.9
47.5°	131.2
50°	75.2
52.5°	48.0
55°	30.4
57.5°	17.6
60°	8.0
62.5°	3.2
65°	1.6
67.5°	1.6
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)