

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: P643767

Luminaire Tested: ML5615LSWFL559FS1E - 592SC - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643767
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: ML5615LSWFL559FS1E - 592SC - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

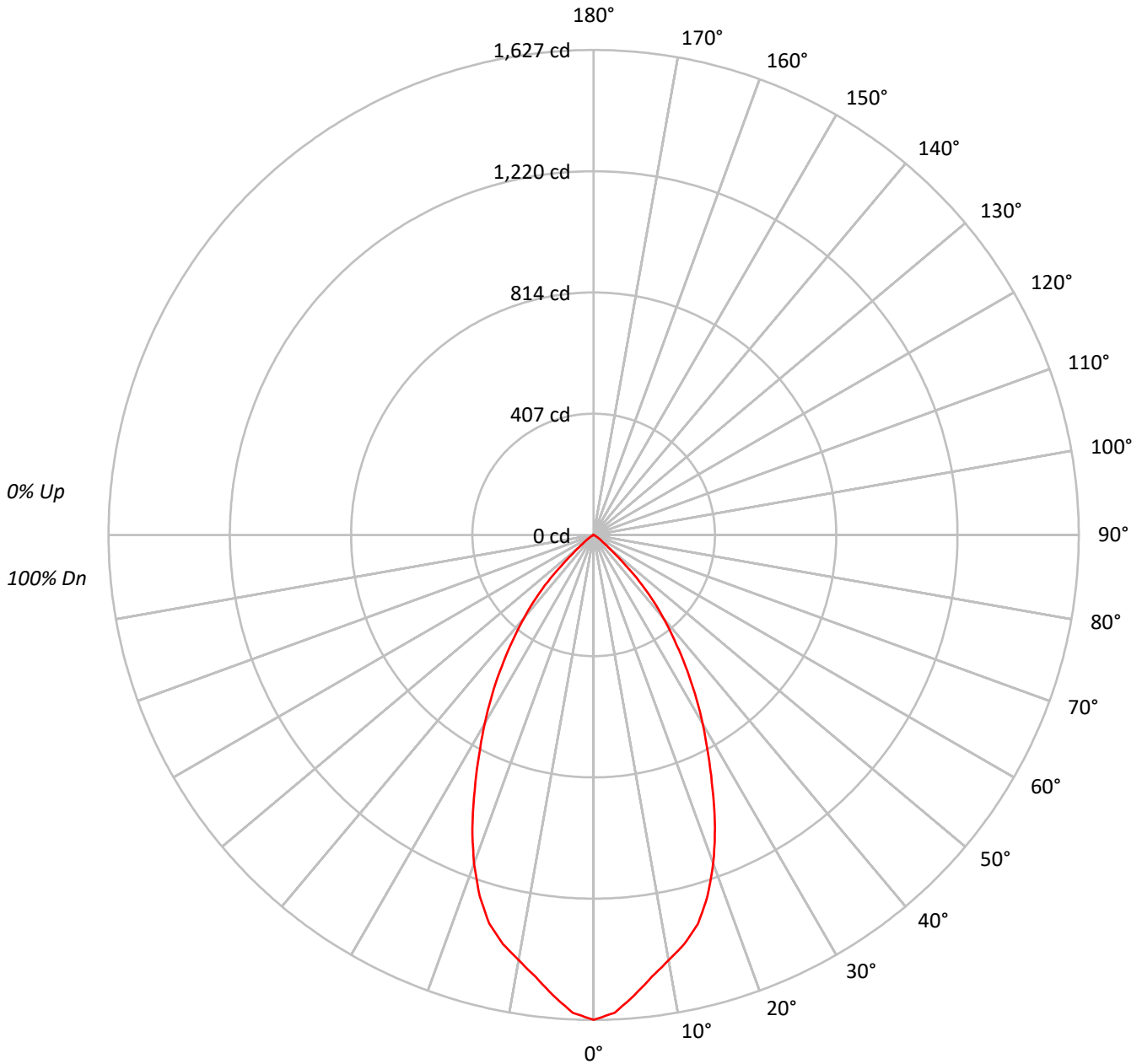
Lumens per Lamp: N/A
Luminaire Lumens: 1466.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): 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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	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	62	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	54	50	58	53	50	57	53	50	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128413
5°	122921
10°	116102
15°	110395
20°	98498
25°	82180
30°	66542
35°	51663
40°	37417
45°	22663
50°	7516
55°	3399
60°	1026
65°	243
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	9.9
10°-20°	374.2	25.5
20°-30°	432.4	29.5
30°-40°	334.7	22.8
40°-50°	153.8	10.5
50°-60°	24.4	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°	951.4	64.9
0°-40°	1286.2	87.7
0°-60°	1464.3	99.9
0°-90°	1466.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1466.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1627	
5°	1551	145
15°	1351	374
25°	944	432
35°	536	335
45°	203	154
55°	25	24
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1626.7
2.5°	1604.5
5°	1551.2
7.5°	1495.2
10°	1448.4
12.5°	1405.4
15°	1350.8
17.5°	1270.1
20°	1172.5
22.5°	1063.2
25°	943.5
27.5°	831.5
30°	730.0
32.5°	632.4
35°	536.1
37.5°	445.1
40°	363.1
42.5°	285.0
45°	203.0
47.5°	111.9
50°	61.2
52.5°	37.7
55°	24.7
57.5°	14.3
60°	6.5
62.5°	2.6
65°	1.3
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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