

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: P643786

Luminaire Tested: ML5615LSWFL559FS1E - 592W - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592W - 1500LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

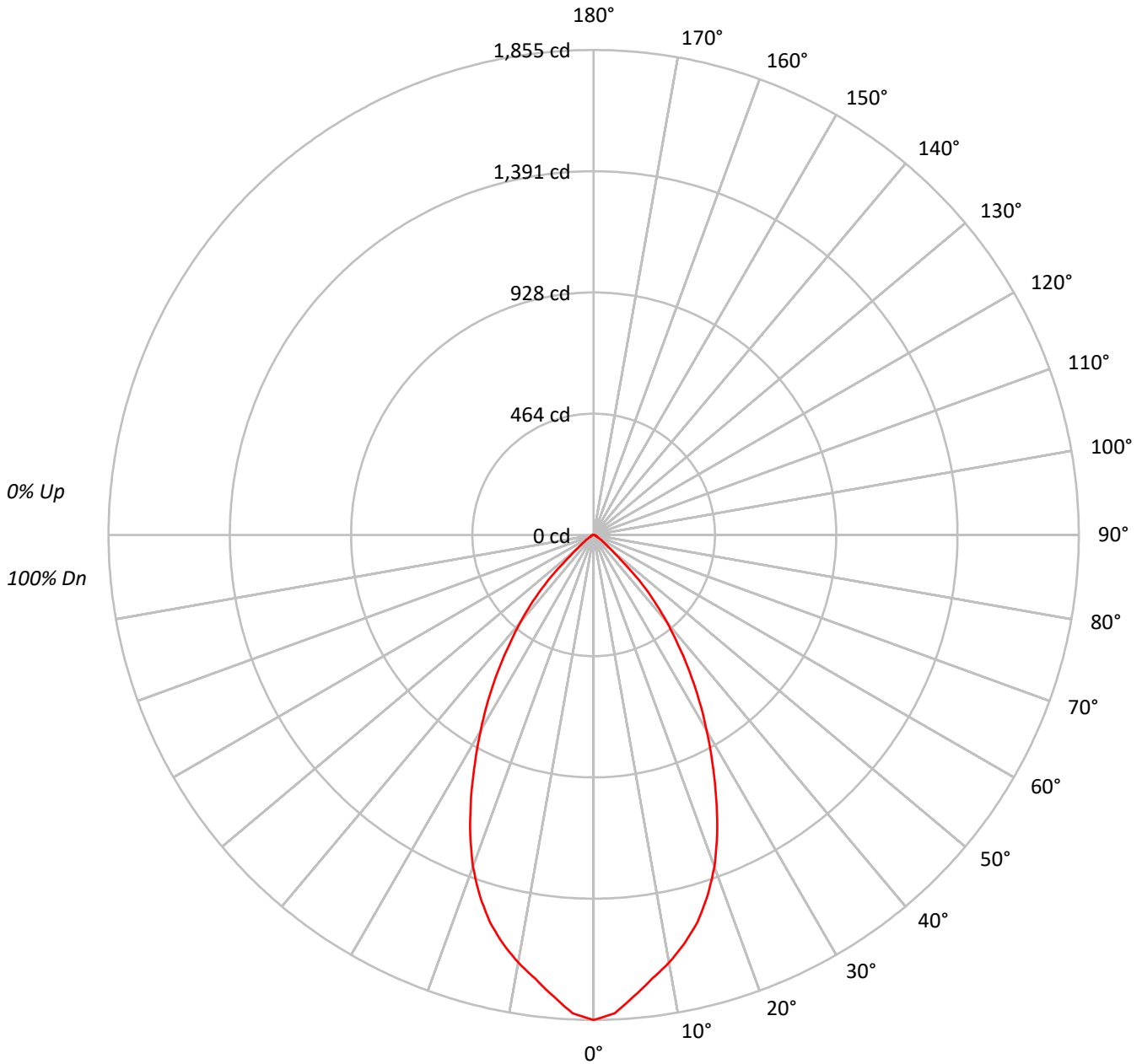
Lumens per Lamp: N/A
Luminaire Lumens: 1744.6 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146443
5°	140346
10°	133120
15°	125302
20°	113384
25°	96570
30°	78811
35°	61589
40°	44868
45°	27776
50°	10120
55°	5354
60°	2700
65°	2036
70°	2147
75°	1891
80°	2137
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	9.5
10°-20°	426.9	24.5
20°-30°	506.3	29.0
30°-40°	398.6	22.8
40°-50°	187.7	10.8
50°-60°	38.2	2.2
60°-70°	11.7	0.7
70°-80°	7.2	0.4
80°-90°	2.4	0.1
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°	1098.9	63.0
0°-40°	1497.5	85.8
0°-60°	1723.4	98.8
0°-90°	1744.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1855	
5°	1771	166
15°	1533	427
25°	1109	506
35°	639	399
45°	249	188
55°	39	38
65°	11	12
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1855.1
2.5°	1831.8
5°	1771.1
7.5°	1712.0
10°	1660.7
12.5°	1601.6
15°	1533.2
17.5°	1447.7
20°	1349.7
22.5°	1234.7
25°	1108.7
27.5°	982.8
30°	864.6
32.5°	751.1
35°	639.1
37.5°	531.8
40°	435.4
42.5°	342.1
45°	248.8
47.5°	139.9
50°	82.4
52.5°	56.0
55°	38.9
57.5°	28.0
60°	17.1
62.5°	14.0
65°	10.9
67.5°	9.3
70°	9.3
72.5°	7.8
75°	6.2
77.5°	6.2
80°	4.7
82.5°	3.1
85°	1.6
87.5°	1.6
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)