

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: P643781

Luminaire Tested: ML5615LSWFL559FS1E - 592W - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643781
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 - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

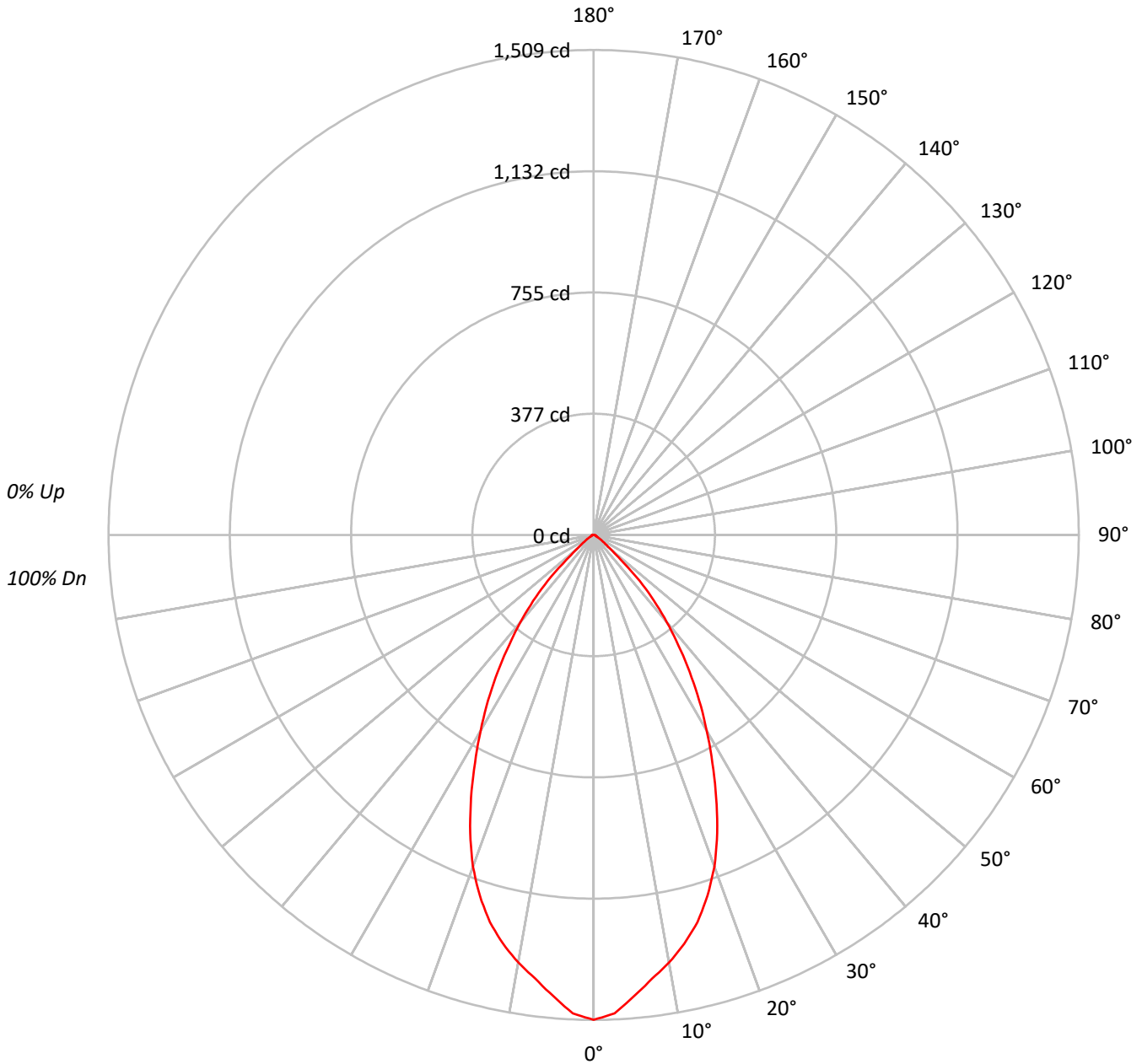
Lumens per Lamp: N/A
Luminaire Lumens: 1419.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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			100																
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72																
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62																
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58																
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54																
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119114
5°	114157
10°	108278
15°	101920
20°	92231
25°	78548
30°	64099
35°	50093
40°	36490
45°	22596
50°	8228
55°	4349
60°	2195
65°	1662
70°	1754
75°	1556
80°	1727
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	9.5
10°-20°	347.3	24.5
20°-30°	411.9	29.0
30°-40°	324.2	22.8
40°-50°	152.7	10.8
50°-60°	31.0	2.2
60°-70°	9.5	0.7
70°-80°	5.9	0.4
80°-90°	1.9	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°	893.8	63.0
0°-40°	1218.1	85.8
0°-60°	1401.8	98.8
0°-90°	1419.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1509	
5°	1441	135
15°	1247	347
25°	902	412
35°	520	324
45°	202	153
55°	32	31
65°	9	10
75°	5	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1508.9
2.5°	1489.9
5°	1440.6
7.5°	1392.6
10°	1350.8
12.5°	1302.8
15°	1247.1
17.5°	1177.5
20°	1097.9
22.5°	1004.3
25°	901.8
27.5°	799.4
30°	703.2
32.5°	610.9
35°	519.8
37.5°	432.6
40°	354.1
42.5°	278.3
45°	202.4
47.5°	113.8
50°	67.0
52.5°	45.5
55°	31.6
57.5°	22.8
60°	13.9
62.5°	11.4
65°	8.9
67.5°	7.6
70°	7.6
72.5°	6.3
75°	5.1
77.5°	5.1
80°	3.8
82.5°	2.5
85°	1.3
87.5°	1.3
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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