

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: P643797

Luminaire Tested: ML5615LSWFL559FS1E - 593BB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593BB - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

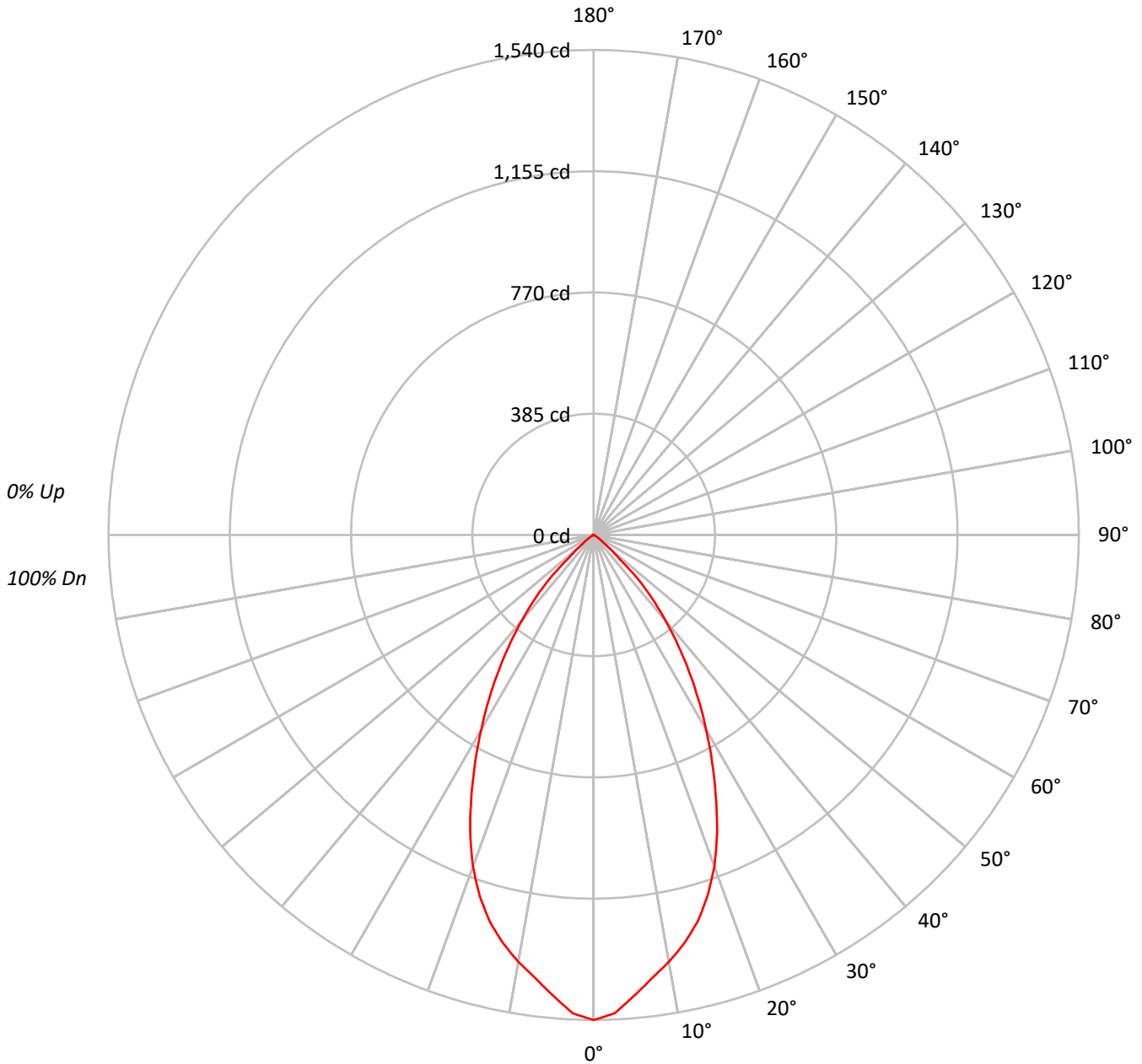
Lumens per Lamp: N/A
Luminaire Lumens: 1414.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									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	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	83	81	79																											
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73																											
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68																											
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63																											
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																											
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55																											
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																											
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121593
5°	116391
10°	110330
15°	103980
20°	94096
25°	80003
30°	65102
35°	50652
40°	36469
45°	22361
50°	7344
55°	3221
60°	821
65°	243
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22361 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	9.7
10°-20°	354.3	25.1
20°-30°	419.6	29.7
30°-40°	327.7	23.2
40°-50°	149.8	10.6
50°-60°	23.8	1.7
60°-70°	1.6	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°	911.2	64.4
0°-40°	1238.9	87.6
0°-60°	1412.5	99.9
0°-90°	1414.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1540	
5°	1469	137
15°	1272	354
25°	918	420
35°	526	328
45°	200	150
55°	23	24
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1540.3
2.5°	1520.8
5°	1468.8
7.5°	1419.3
10°	1376.4
12.5°	1328.3
15°	1272.3
17.5°	1202.1
20°	1120.1
22.5°	1023.9
25°	918.5
27.5°	814.4
30°	714.2
32.5°	618.0
35°	525.6
37.5°	437.1
40°	353.9
42.5°	277.1
45°	200.3
47.5°	106.7
50°	59.8
52.5°	37.7
55°	23.4
57.5°	14.3
60°	5.2
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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(END OF REPORT)