

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641985

Luminaire Tested: ML5612LSWFL5597FS1E - 593BB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641985
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: ML5612LSWFL5597FS1E - 593BB - 1200LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

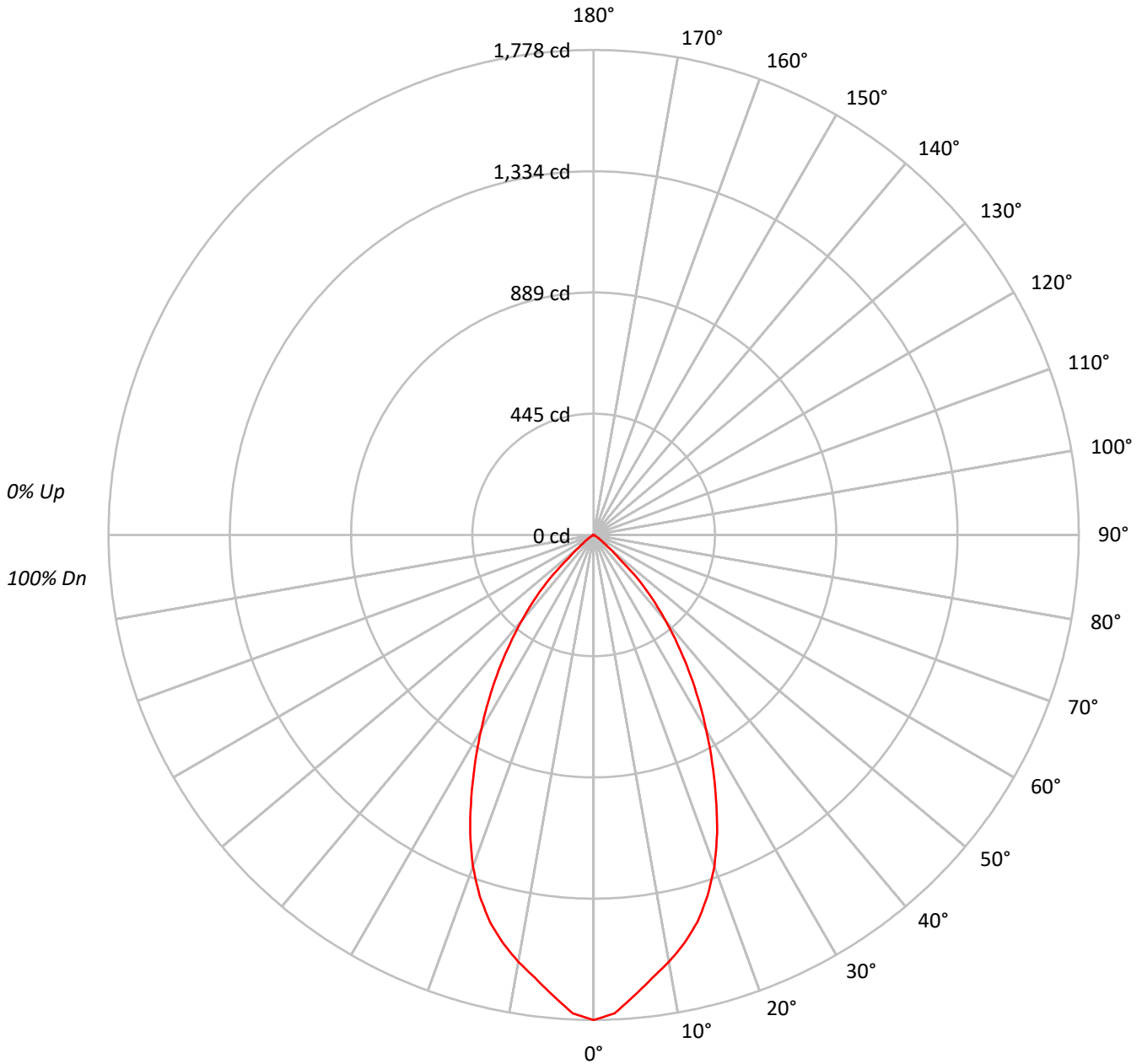
Lumens per Lamp: N/A
Luminaire Lumens: 1632.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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					20	
RC	80					70					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	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°	140396
5°	134387
10°	127388
15°	120063
20°	108646
25°	92371
30°	75174
35°	58486
40°	42106
45°	25822
50°	8486
55°	3716
60°	947
65°	280
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25822 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	9.7
10°-20°	409.0	25.1
20°-30°	484.4	29.7
30°-40°	378.4	23.2
40°-50°	173.0	10.6
50°-60°	27.4	1.7
60°-70°	1.8	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°	1052.1	64.4
0°-40°	1430.4	87.6
0°-60°	1630.9	99.9
0°-90°	1632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1778	
5°	1696	159
15°	1469	409
25°	1060	484
35°	607	378
45°	231	173
55°	27	27
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1778.5
2.5°	1756.0
5°	1695.9
7.5°	1638.8
10°	1589.2
12.5°	1533.7
15°	1469.1
17.5°	1387.9
20°	1293.3
22.5°	1182.2
25°	1060.5
27.5°	940.3
30°	824.7
32.5°	713.5
35°	606.9
37.5°	504.7
40°	408.6
42.5°	319.9
45°	231.3
47.5°	123.2
50°	69.1
52.5°	43.6
55°	27.0
57.5°	16.5
60°	6.0
62.5°	3.0
65°	1.5
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

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)