

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: P642530

Luminaire Tested: ML5615LSFL409FS1E - 596WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 596WB - 1500LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2023.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

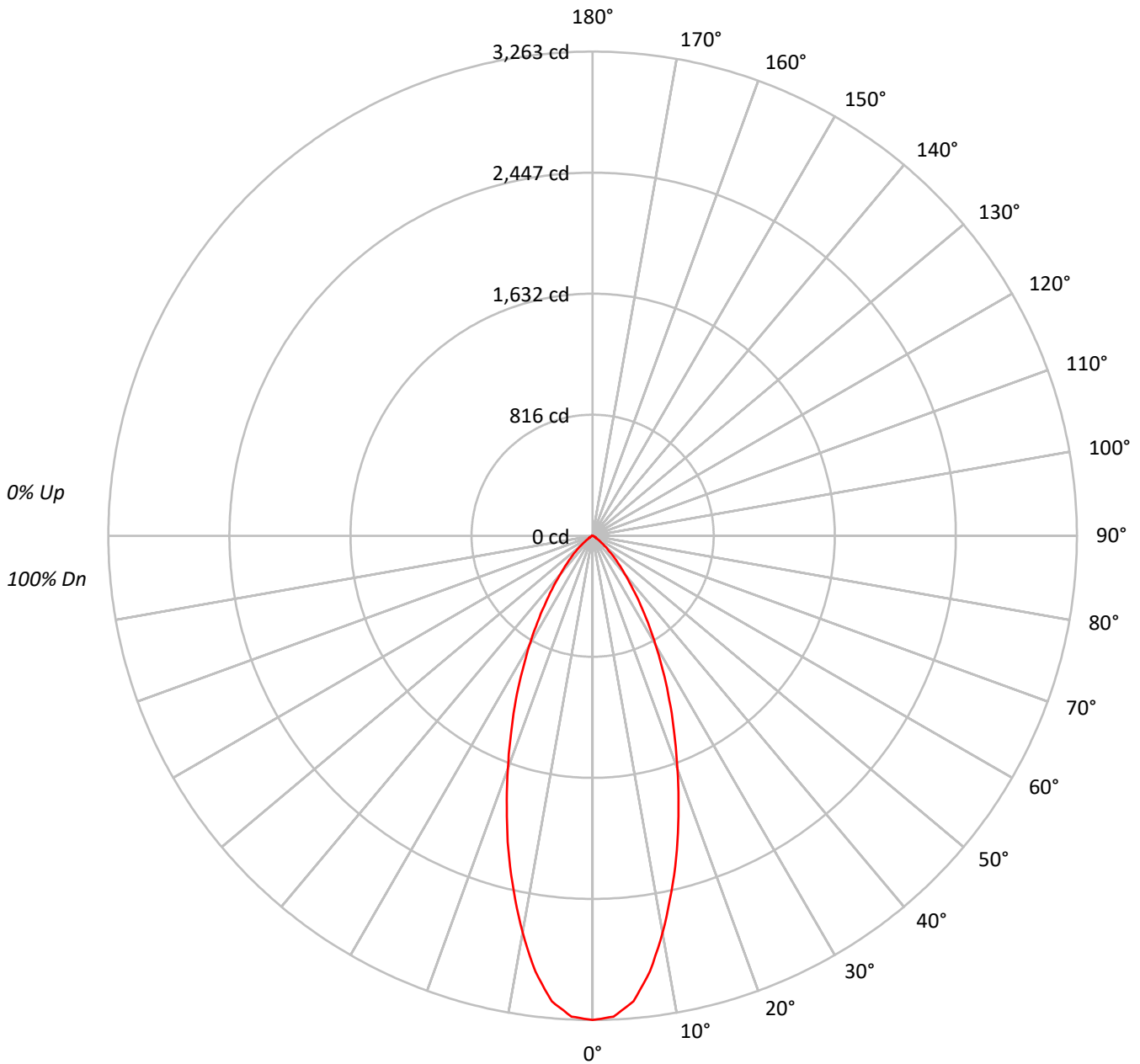
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81			81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67			67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59			59
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56			56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	257584
5°	249590
10°	217727
15°	179322
20°	140174
25°	106656
30°	77425
35°	53205
40°	34831
45°	22518
50°	12821
55°	5354
60°	3631
65°	1980
70°	1223
75°	1068
80°	818
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22518 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	14.2
10°-20°	605.9	30.0
20°-30°	560.9	27.7
30°-40°	350.4	17.3
40°-50°	158.2	7.8
50°-60°	44.1	2.2
60°-70°	12.2	0.6
70°-80°	3.7	0.2
80°-90°	1.2	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°	1453.1	71.8
0°-40°	1803.5	89.2
0°-60°	2005.9	99.2
0°-90°	2023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3263	
5°	3150	286
15°	2194	606
25°	1224	561
35°	552	350
45°	202	158
55°	39	44
65°	11	12
75°	4	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3263.0
2.5°	3243.5
5°	3149.7
7.5°	2960.4
10°	2716.2
12.5°	2454.3
15°	2194.2
17.5°	1923.4
20°	1668.6
22.5°	1435.1
25°	1224.5
27.5°	1024.5
30°	849.4
32.5°	690.1
35°	552.1
37.5°	435.3
40°	338.0
42.5°	261.9
45°	201.7
47.5°	145.1
50°	104.4
52.5°	69.0
55°	38.9
57.5°	28.3
60°	23.0
62.5°	17.7
65°	10.6
67.5°	7.1
70°	5.3
72.5°	3.5
75°	3.5
77.5°	3.5
80°	1.8
82.5°	1.8
85°	1.8
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)