

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: P642529

Luminaire Tested: ML5615LSFL409FS1E - 596WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642529
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 - 4000K
Description: ML56 RR, 40D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

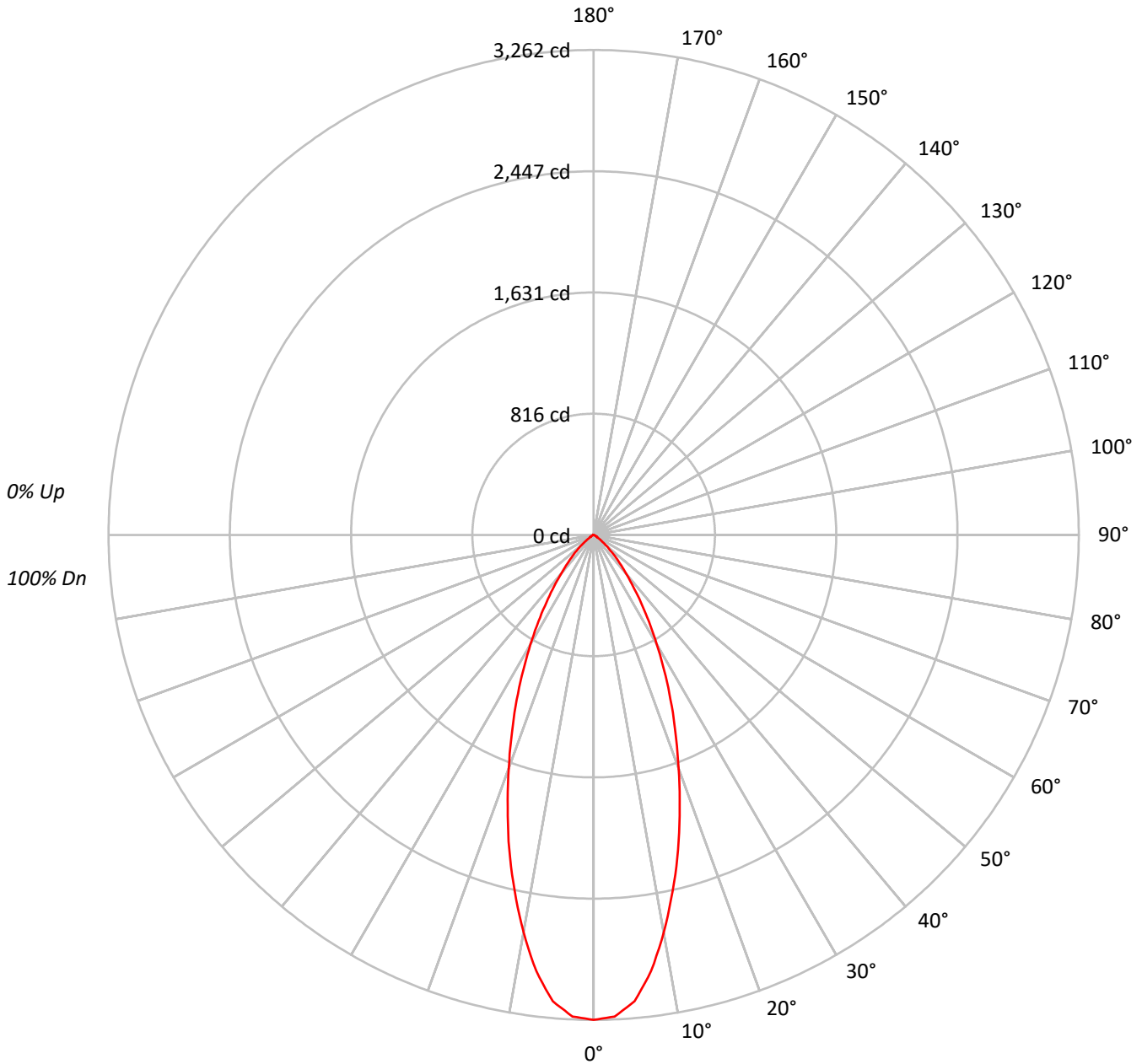
Lumens per Lamp: N/A
Luminaire Lumens: 2022.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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°	257482
5°	249495
10°	217647
15°	179249
20°	140124
25°	106612
30°	77389
35°	53186
40°	34810
45°	22506
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: 22506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	14.2
10°-20°	605.7	30.0
20°-30°	560.7	27.7
30°-40°	350.3	17.3
40°-50°	158.1	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°	1452.5	71.8
0°-40°	1802.8	89.2
0°-60°	2005.1	99.2
0°-90°	2022.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3262	
5°	3148	286
15°	2193	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°	3261.7
2.5°	3242.3
5°	3148.5
7.5°	2959.3
10°	2715.2
12.5°	2453.4
15°	2193.3
17.5°	1922.7
20°	1668.0
22.5°	1434.5
25°	1224.0
27.5°	1024.2
30°	849.0
32.5°	689.8
35°	551.9
37.5°	435.1
40°	337.8
42.5°	261.8
45°	201.6
47.5°	145.0
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)