

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: P642587

Luminaire Tested: ML5615LSFL409FS1E - 692W - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692W - 1500LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

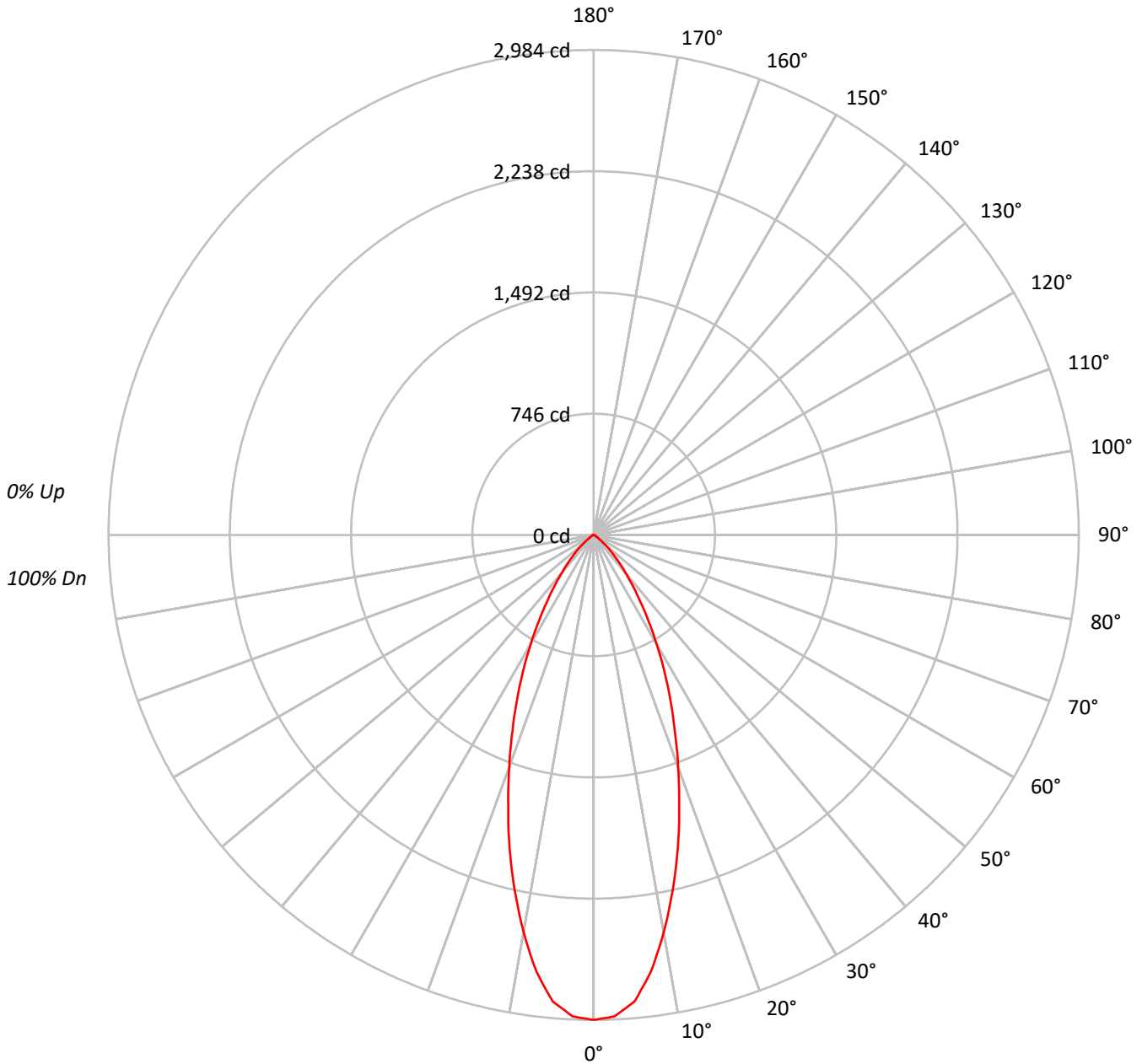
Lumens per Lamp: N/A
Luminaire Lumens: 1831.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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									
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																			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	98	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	78	74	80	76	73	79	75	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	163589
5°	158584
10°	138174
15°	113480
20°	88581
25°	67383
30°	48868
35°	33482
40°	21734
45°	13505
50°	7087
55°	3211
60°	2105
65°	1245
70°	769
75°	678
80°	1010
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	14.3
10°-20°	552.2	30.2
20°-30°	510.7	27.9
30°-40°	317.5	17.3
40°-50°	139.4	7.6
50°-60°	34.3	1.9
60°-70°	10.0	0.5
70°-80°	4.0	0.2
80°-90°	1.3	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°	1324.7	72.3
0°-40°	1642.2	89.7
0°-60°	1816.0	99.2
0°-90°	1831.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2984	
5°	2882	262
15°	2000	552
25°	1114	511
35°	500	317
45°	174	139
55°	34	34
65°	10	10
75°	3	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2984.1
2.5°	2964.9
5°	2881.8
7.5°	2707.6
10°	2482.2
12.5°	2242.4
15°	1999.5
17.5°	1748.6
20°	1518.4
22.5°	1304.2
25°	1114.0
27.5°	936.6
30°	772.0
32.5°	626.5
35°	500.3
37.5°	393.2
40°	303.7
42.5°	235.0
45°	174.2
47.5°	129.5
50°	83.1
52.5°	44.8
55°	33.6
57.5°	25.6
60°	19.2
62.5°	14.4
65°	9.6
67.5°	4.8
70°	4.8
72.5°	4.8
75°	3.2
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
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)