

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: P642555

Luminaire Tested: ML5615LSFL409FS1E - 692H - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692H - 1200LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

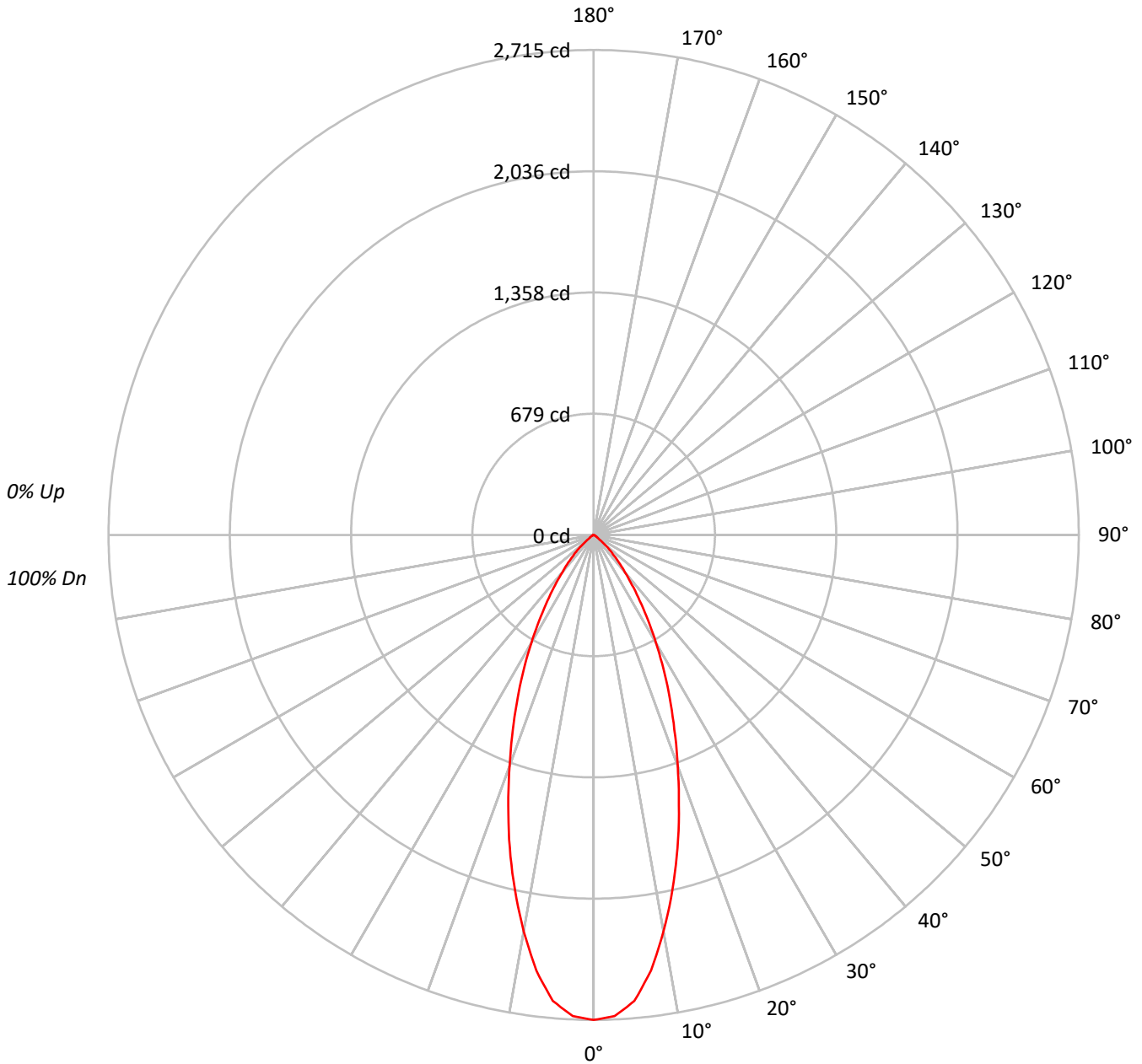
Lumens per Lamp: N/A
Luminaire Lumens: 1642.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	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	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94						94													
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						88													
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82						82													
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77						77													
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72						72													
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67						67													
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63						63													
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60						60													
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57						57													
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54						54													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148842
5°	144106
10°	125432
15°	102974
20°	80163
25°	60838
30°	44083
35°	30142
40°	19458
45°	11939
50°	6013
55°	2475
60°	1579
65°	558
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	14.5
10°-20°	501.1	30.5
20°-30°	461.3	28.1
30°-40°	285.7	17.4
40°-50°	123.6	7.5
50°-60°	27.8	1.7
60°-70°	5.2	0.3
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°	1200.2	73.1
0°-40°	1486.0	90.5
0°-60°	1637.3	99.7
0°-90°	1642.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2715	
5°	2619	238
15°	1814	501
25°	1006	461
35°	450	286
45°	154	124
55°	26	28
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2715.1
2.5°	2696.4
5°	2618.7
7.5°	2459.0
10°	2253.3
12.5°	2036.0
15°	1814.4
17.5°	1587.1
20°	1374.1
22.5°	1179.9
25°	1005.8
27.5°	844.6
30°	696.4
32.5°	565.5
35°	450.4
37.5°	352.5
40°	271.9
42.5°	210.1
45°	154.0
47.5°	113.7
50°	70.5
52.5°	37.4
55°	25.9
57.5°	20.1
60°	14.4
62.5°	8.6
65°	4.3
67.5°	1.4
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)