

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: P642554

Luminaire Tested: ML5615LSFL409FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642554
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 - 4000K
Description: ML56 RR, 40D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

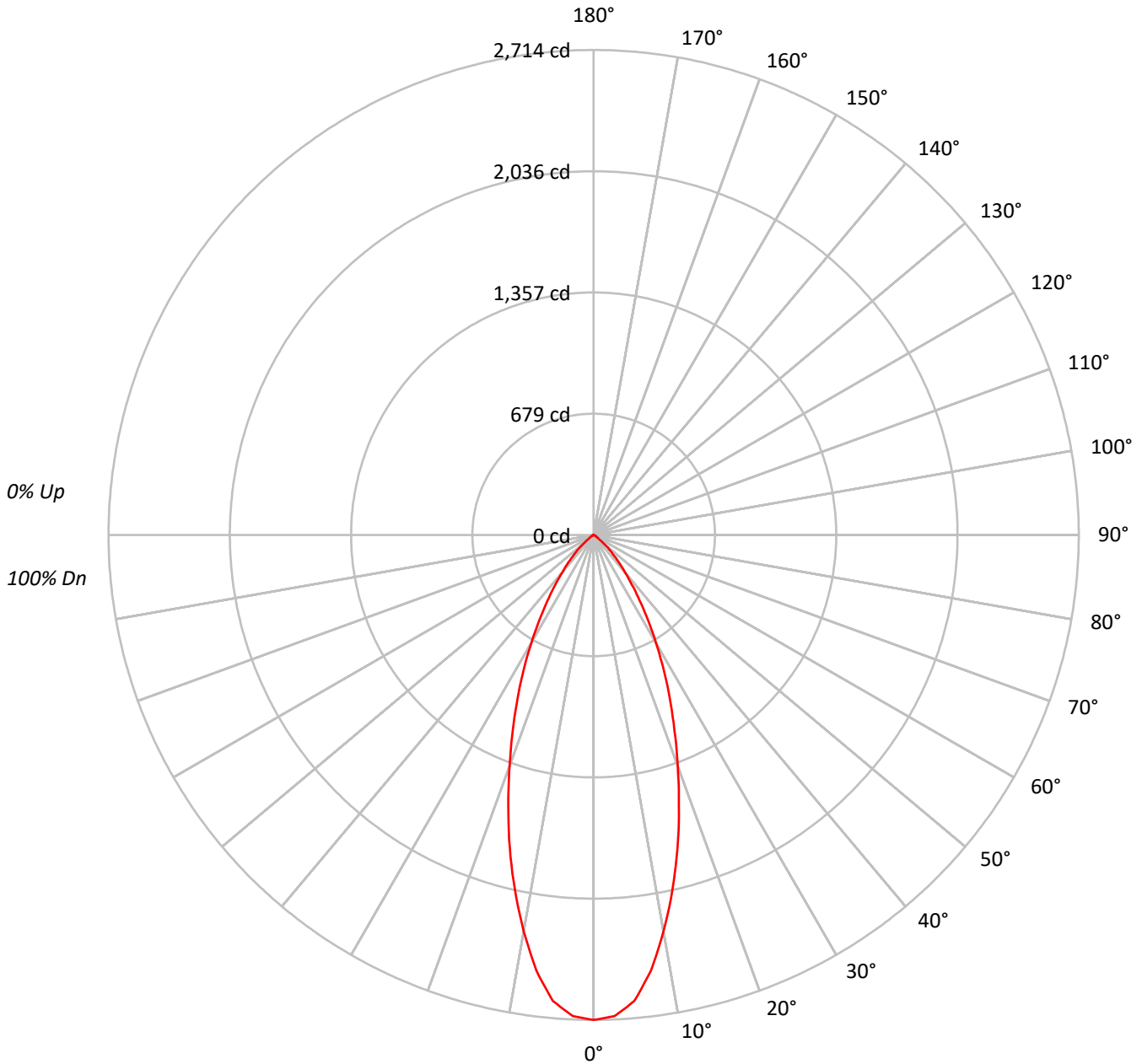
Lumens per Lamp: N/A
Luminaire Lumens: 1641.9 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	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°	148787
5°	144051
10°	125382
15°	102935
20°	80134
25°	60814
30°	44064
35°	30129
40°	19451
45°	11931
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: 11931 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	14.5
10°-20°	500.9	30.5
20°-30°	461.1	28.1
30°-40°	285.6	17.4
40°-50°	123.5	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°	1199.8	73.1
0°-40°	1485.4	90.5
0°-60°	1636.7	99.7
0°-90°	1641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2714	
5°	2618	238
15°	1814	501
25°	1005	461
35°	450	286
45°	154	123
55°	26	28
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2714.1
2.5°	2695.4
5°	2617.7
7.5°	2458.1
10°	2252.4
12.5°	2035.2
15°	1813.7
17.5°	1586.5
20°	1373.6
22.5°	1179.4
25°	1005.4
27.5°	844.3
30°	696.1
32.5°	565.3
35°	450.2
37.5°	352.4
40°	271.8
42.5°	210.0
45°	153.9
47.5°	113.6
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)