

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: P642623

Luminaire Tested: ML5615LSFL409FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 693SNB - 900LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

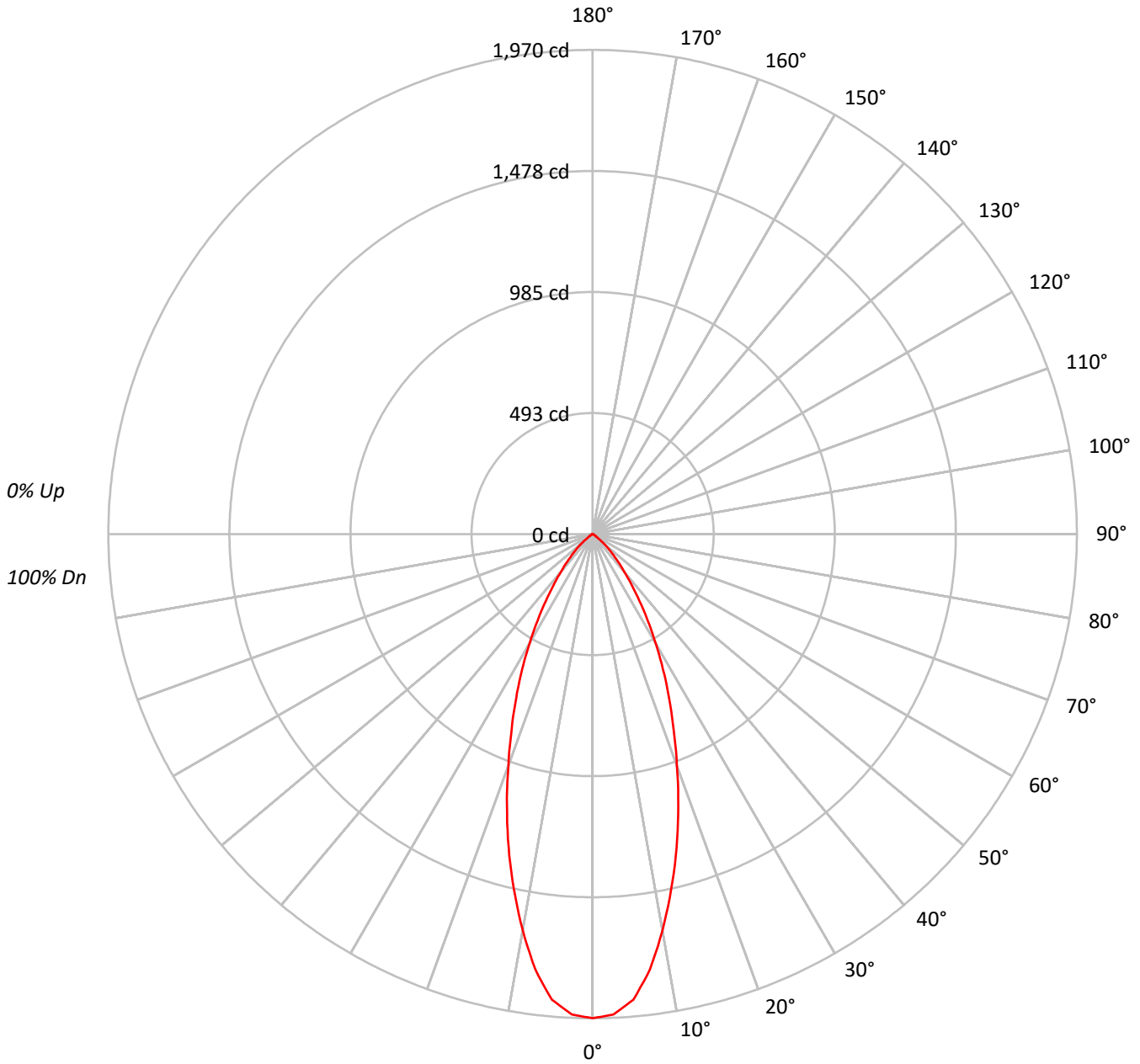
Lumens per Lamp: N/A
Luminaire Lumens: 1202.4 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.7
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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				
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82				
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	80	78	76				
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72				
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67				
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63				
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	56				
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107985
5°	104617
10°	91114
15°	74949
20°	58478
25°	44513
30°	32397
35°	22218
40°	14377
45°	8854
50°	4776
55°	1816
60°	1162
65°	415
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	14.4
10°-20°	364.9	30.3
20°-30°	337.5	28.1
30°-40°	210.4	17.5
40°-50°	91.9	7.6
50°-60°	21.1	1.8
60°-70°	3.9	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°	875.1	72.8
0°-40°	1085.5	90.3
0°-60°	1198.5	99.7
0°-90°	1202.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1970	
5°	1901	173
15°	1321	365
25°	736	337
35°	332	210
45°	114	92
55°	19	21
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1969.8
2.5°	1956.1
5°	1901.1
7.5°	1786.9
10°	1636.8
12.5°	1479.2
15°	1320.6
17.5°	1158.8
20°	1002.4
22.5°	860.7
25°	735.9
27.5°	619.6
30°	511.8
32.5°	415.5
35°	332.0
37.5°	260.1
40°	200.9
42.5°	155.4
45°	114.2
47.5°	84.6
50°	56.0
52.5°	28.5
55°	19.0
57.5°	14.8
60°	10.6
62.5°	6.3
65°	3.2
67.5°	1.1
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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