

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: P641193

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.1 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

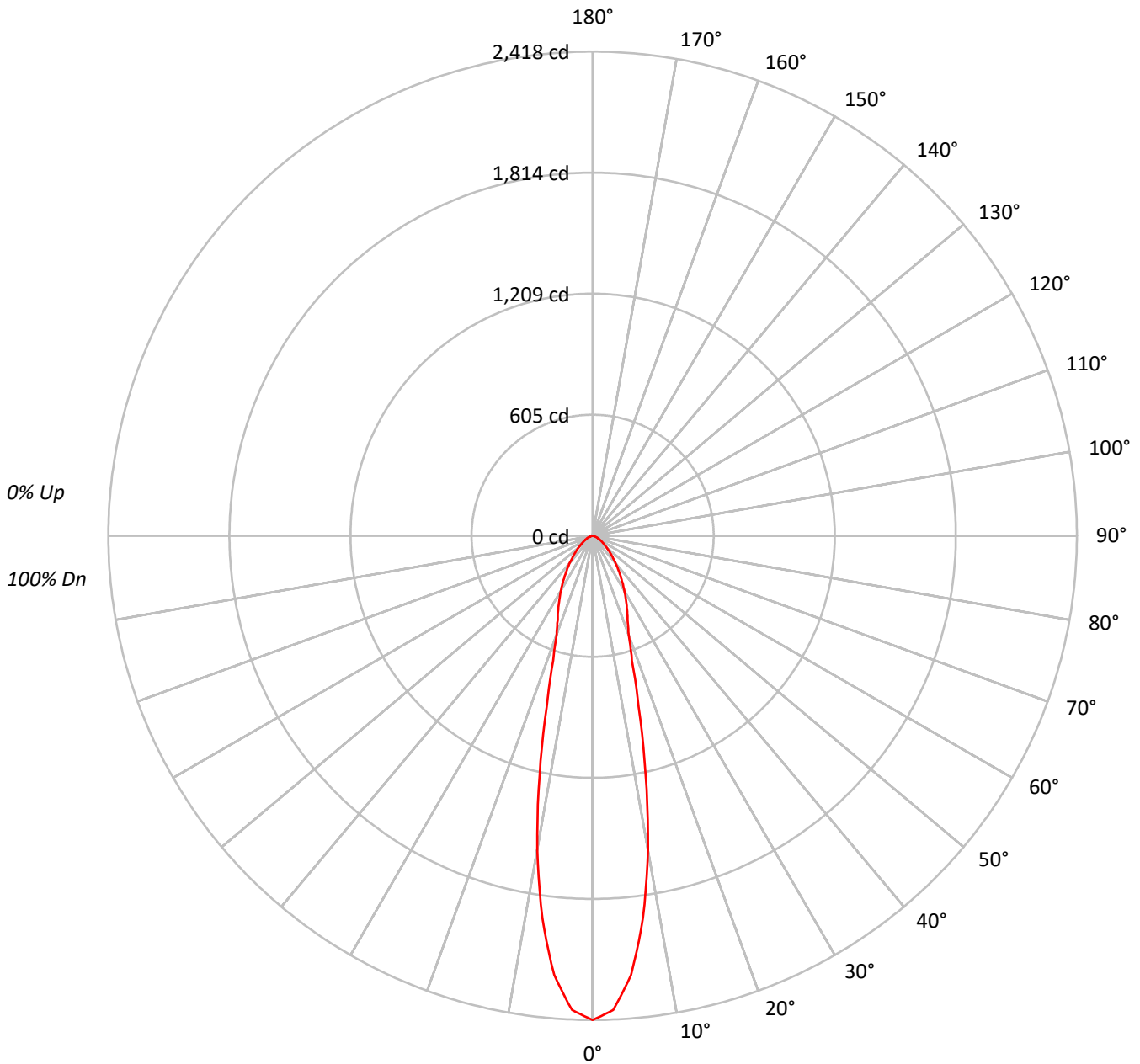
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			54
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132583
5°	121170
10°	88498
15°	50188
20°	30622
25°	24570
30°	20028
35°	16062
40°	12731
45°	9962
50°	7744
55°	6098
60°	4824
65°	3969
70°	2885
75°	1716
80°	852
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	19.4
10°-20°	254.7	25.9
20°-30°	187.5	19.1
30°-40°	150.9	15.4
40°-50°	100.3	10.2
50°-60°	58.0	5.9
60°-70°	30.5	3.1
70°-80°	9.1	0.9
80°-90°	0.9	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°	632.4	64.4
0°-40°	783.3	79.8
0°-60°	941.6	95.9
0°-90°	982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2418	
5°	2202	190
15°	884	255
25°	406	187
35°	240	151
45°	128	100
55°	64	58
65°	31	31
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2418.5
2.5°	2369.9
5°	2201.9
7.5°	1926.0
10°	1589.8
12.5°	1222.3
15°	884.3
17.5°	653.4
20°	524.9
22.5°	456.6
25°	406.2
27.5°	360.4
30°	316.4
32.5°	276.8
35°	240.0
37.5°	207.6
40°	177.9
42.5°	151.0
45°	128.5
47.5°	108.7
50°	90.8
52.5°	76.4
55°	63.8
57.5°	53.0
60°	44.0
62.5°	36.8
65°	30.6
67.5°	25.2
70°	18.0
72.5°	11.7
75°	8.1
77.5°	4.5
80°	2.7
82.5°	1.8
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)