

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: P640941

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592W - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

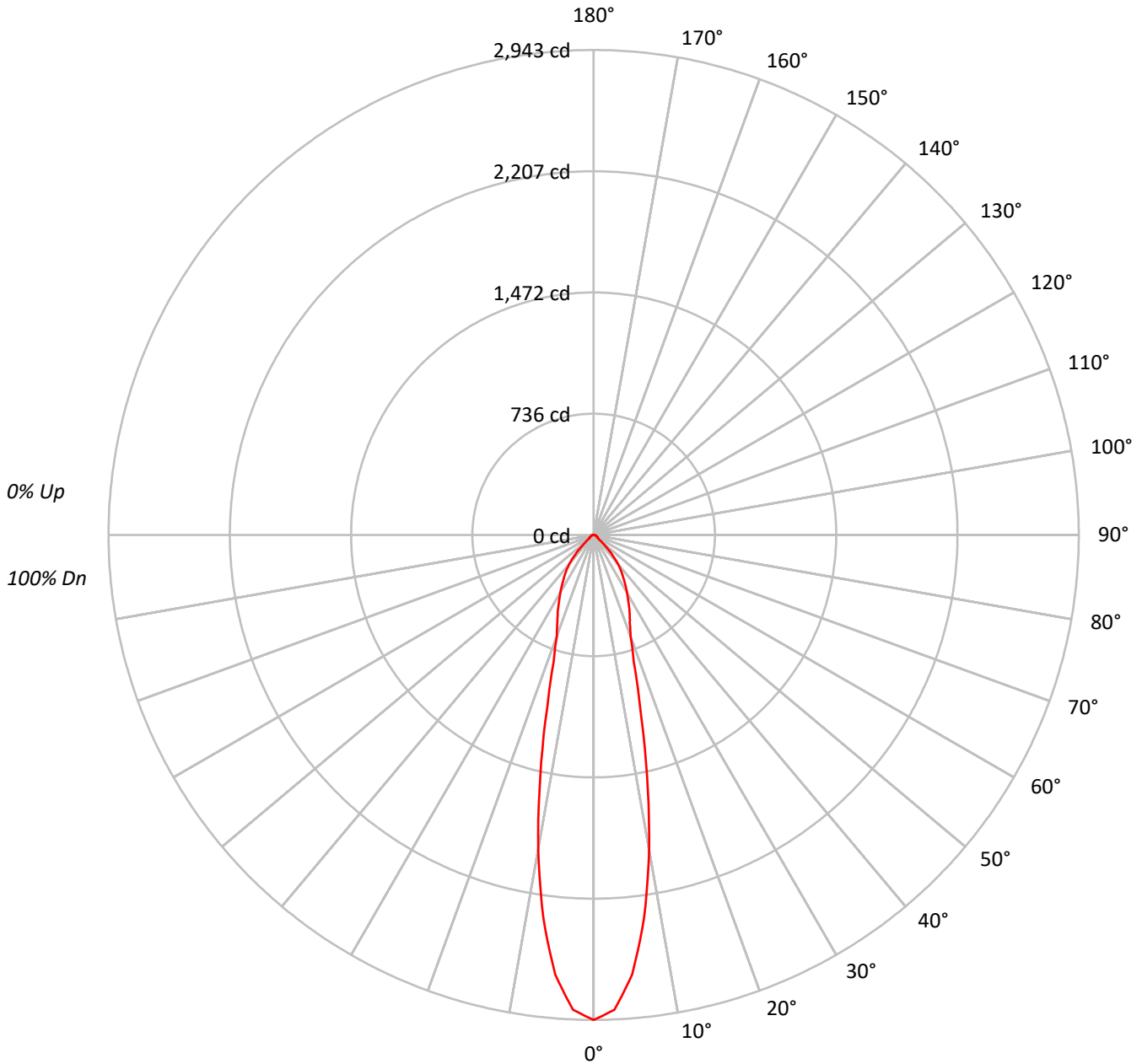
Lumens per Lamp: N/A
Luminaire Lumens: 1140.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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									
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				100															
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75				75															
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71															
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67				67															
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57				57															
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54				54															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232355
5°	212148
10°	155307
15°	89155
20°	54899
25°	44849
30°	36789
35°	29961
40°	23609
45°	14614
50°	5490
55°	4198
60°	3963
65°	3661
70°	3531
75°	3660
80°	3455
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	20.3
10°-20°	313.1	27.5
20°-30°	236.6	20.8
30°-40°	194.9	17.1
40°-50°	99.7	8.7
50°-60°	28.5	2.5
60°-70°	19.6	1.7
70°-80°	12.5	1.1
80°-90°	3.7	0.3
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°	781.2	68.5
0°-40°	976.1	85.6
0°-60°	1104.3	96.9
0°-90°	1140.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2943	
5°	2677	231
15°	1091	313
25°	515	237
35°	311	195
45°	131	100
55°	30	28
65°	20	20
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2943.4
2.5°	2884.4
5°	2677.2
7.5°	2343.3
10°	1937.5
12.5°	1492.4
15°	1090.9
17.5°	808.4
20°	653.5
22.5°	573.8
25°	514.9
27.5°	456.0
30°	403.6
32.5°	355.6
35°	310.9
37.5°	271.6
40°	229.1
42.5°	176.7
45°	130.9
47.5°	80.7
50°	44.7
52.5°	34.9
55°	30.5
57.5°	27.3
60°	25.1
62.5°	21.8
65°	19.6
67.5°	17.5
70°	15.3
72.5°	14.2
75°	12.0
77.5°	9.8
80°	7.6
82.5°	5.5
85°	3.3
87.5°	1.1
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)