

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: P641048

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594WB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

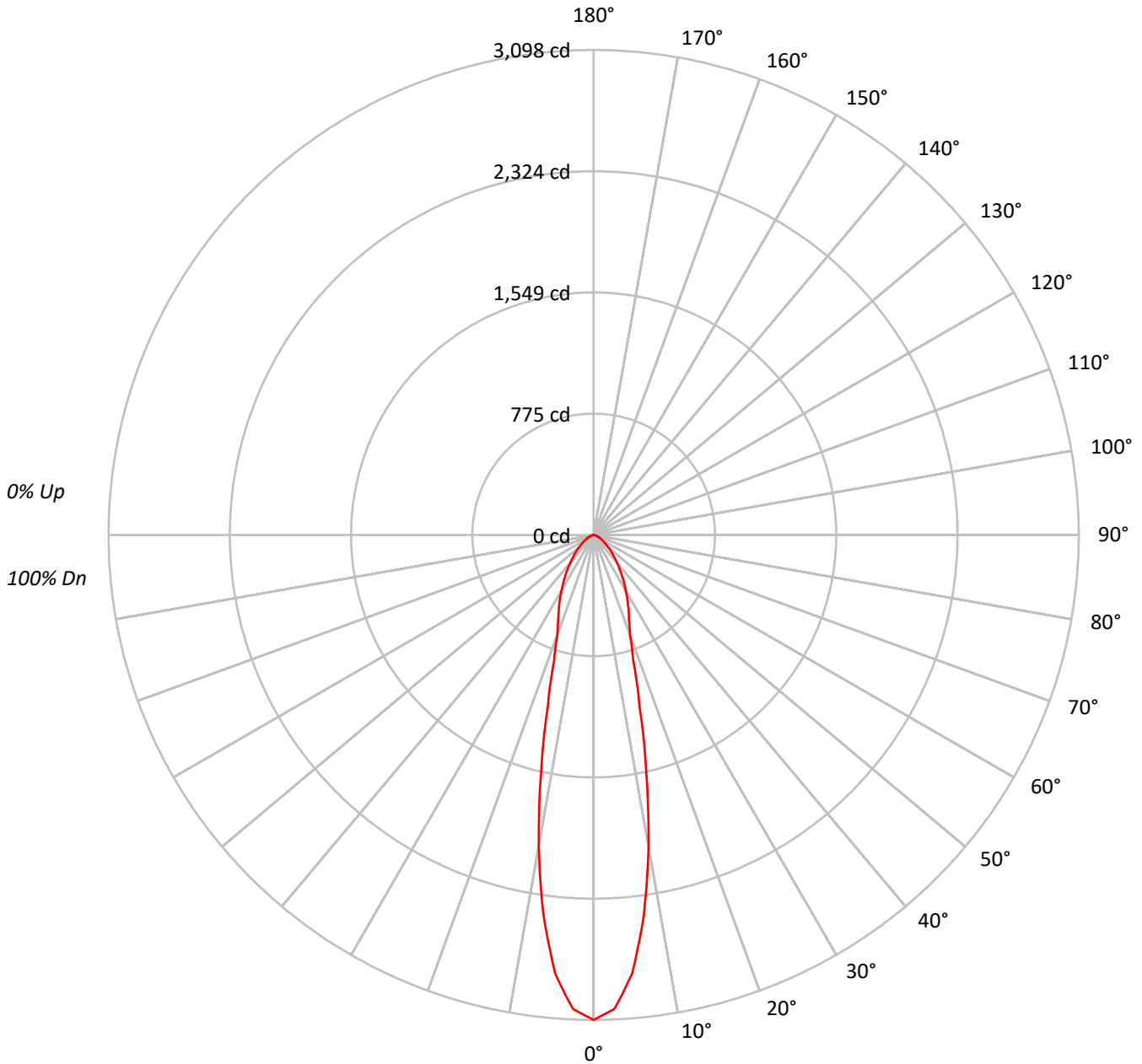
Lumens per Lamp: N/A
Luminaire Lumens: 1269.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78			78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	71	78	73	70	76	72	69	68			68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63			63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60			60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56			56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	244567
5°	222933
10°	161736
15°	92342
20°	57049
25°	45894
30°	37418
35°	30115
40°	24000
45°	18923
50°	14725
55°	11588
60°	9283
65°	7546
70°	5332
75°	2806
80°	2091
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	19.1
10°-20°	325.2	25.6
20°-30°	242.8	19.1
30°-40°	196.5	15.5
40°-50°	132.1	10.4
50°-60°	76.7	6.0
60°-70°	40.3	3.2
70°-80°	11.5	0.9
80°-90°	1.6	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°	810.6	63.9
0°-40°	1007.1	79.3
0°-60°	1215.8	95.8
0°-90°	1269.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1269.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3098	
5°	2813	243
15°	1130	325
25°	527	243
35°	312	196
45°	170	132
55°	84	77
65°	40	40
75°	9	12
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3098.1
2.5°	3031.2
5°	2813.3
7.5°	2453.6
10°	2017.7
12.5°	1549.6
15°	1129.9
17.5°	840.5
20°	679.1
22.5°	590.3
25°	526.9
27.5°	467.0
30°	410.5
32.5°	359.7
35°	312.5
37.5°	271.0
40°	232.9
42.5°	199.5
45°	169.5
47.5°	143.0
50°	119.9
52.5°	100.3
55°	84.2
57.5°	70.3
60°	58.8
62.5°	48.4
65°	40.4
67.5°	33.4
70°	23.1
72.5°	15.0
75°	9.2
77.5°	5.8
80°	4.6
82.5°	2.3
85°	1.2
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)