

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: P641047

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641047
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

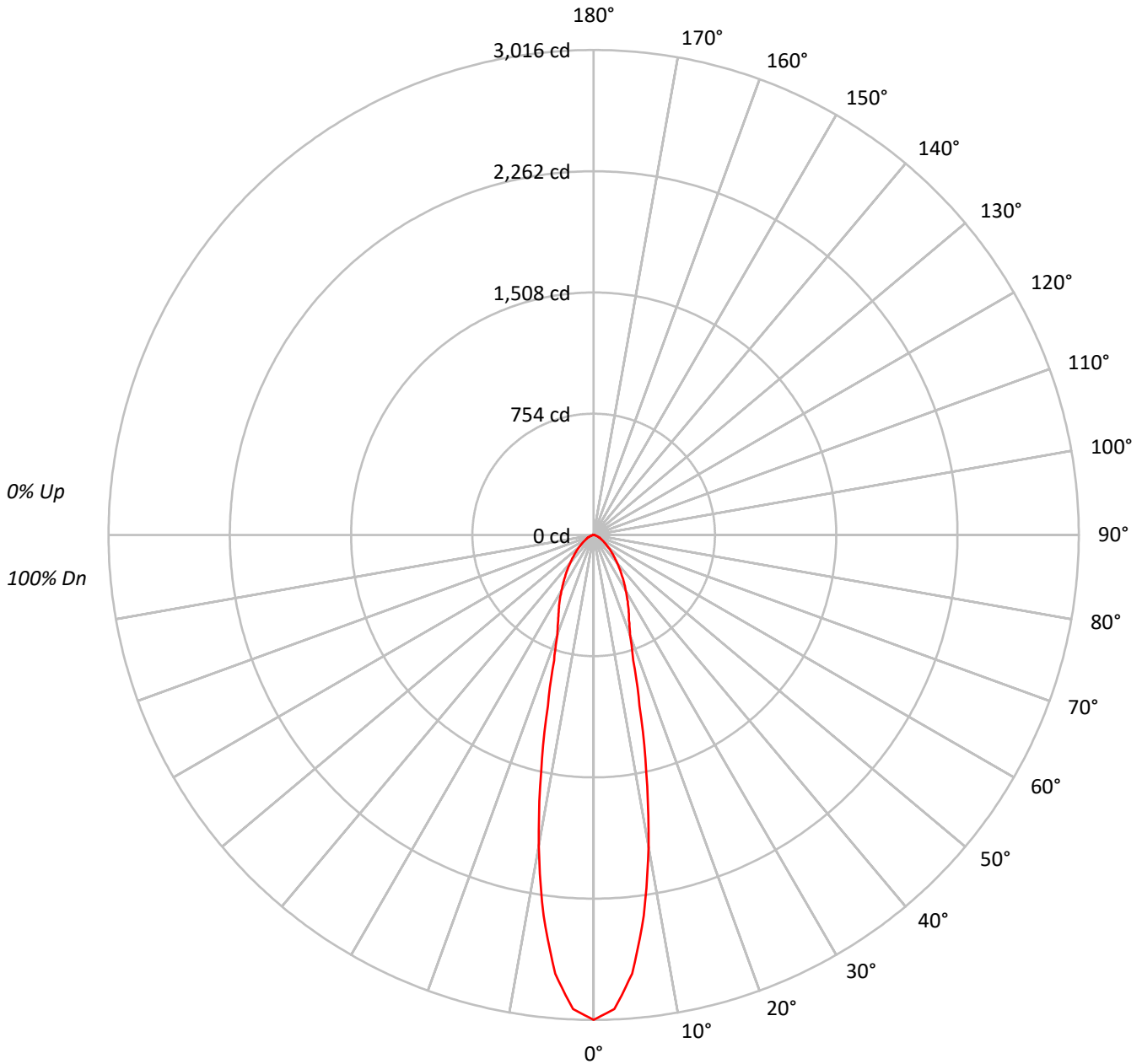
Lumens per Lamp: N/A
Luminaire Lumens: 1235.5 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	83	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	72	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°	238086
5°	217021
10°	157456
15°	89898
20°	55537
25°	44683
30°	36425
35°	29315
40°	23361
45°	18420
50°	14332
55°	11272
60°	9031
65°	7341
70°	5170
75°	2745
80°	2046
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	19.1
10°-20°	316.6	25.6
20°-30°	236.4	19.1
30°-40°	191.3	15.5
40°-50°	128.6	10.4
50°-60°	74.6	6.0
60°-70°	39.2	3.2
70°-80°	11.2	0.9
80°-90°	1.5	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°	789.1	63.9
0°-40°	980.4	79.4
0°-60°	1183.6	95.8
0°-90°	1235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1235.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3016	
5°	2739	236
15°	1100	317
25°	513	236
35°	304	191
45°	165	129
55°	82	75
65°	39	39
75°	9	11
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3016.0
2.5°	2950.9
5°	2738.7
7.5°	2388.5
10°	1964.3
12.5°	1508.6
15°	1100.0
17.5°	818.3
20°	661.1
22.5°	574.7
25°	513.0
27.5°	454.6
30°	399.6
32.5°	350.2
35°	304.2
37.5°	263.8
40°	226.7
42.5°	194.2
45°	165.0
47.5°	139.2
50°	116.7
52.5°	97.7
55°	81.9
57.5°	68.5
60°	57.2
62.5°	47.1
65°	39.3
67.5°	32.6
70°	22.4
72.5°	14.6
75°	9.0
77.5°	5.6
80°	4.5
82.5°	2.2
85°	1.1
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)