

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: P641043

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641043
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 - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

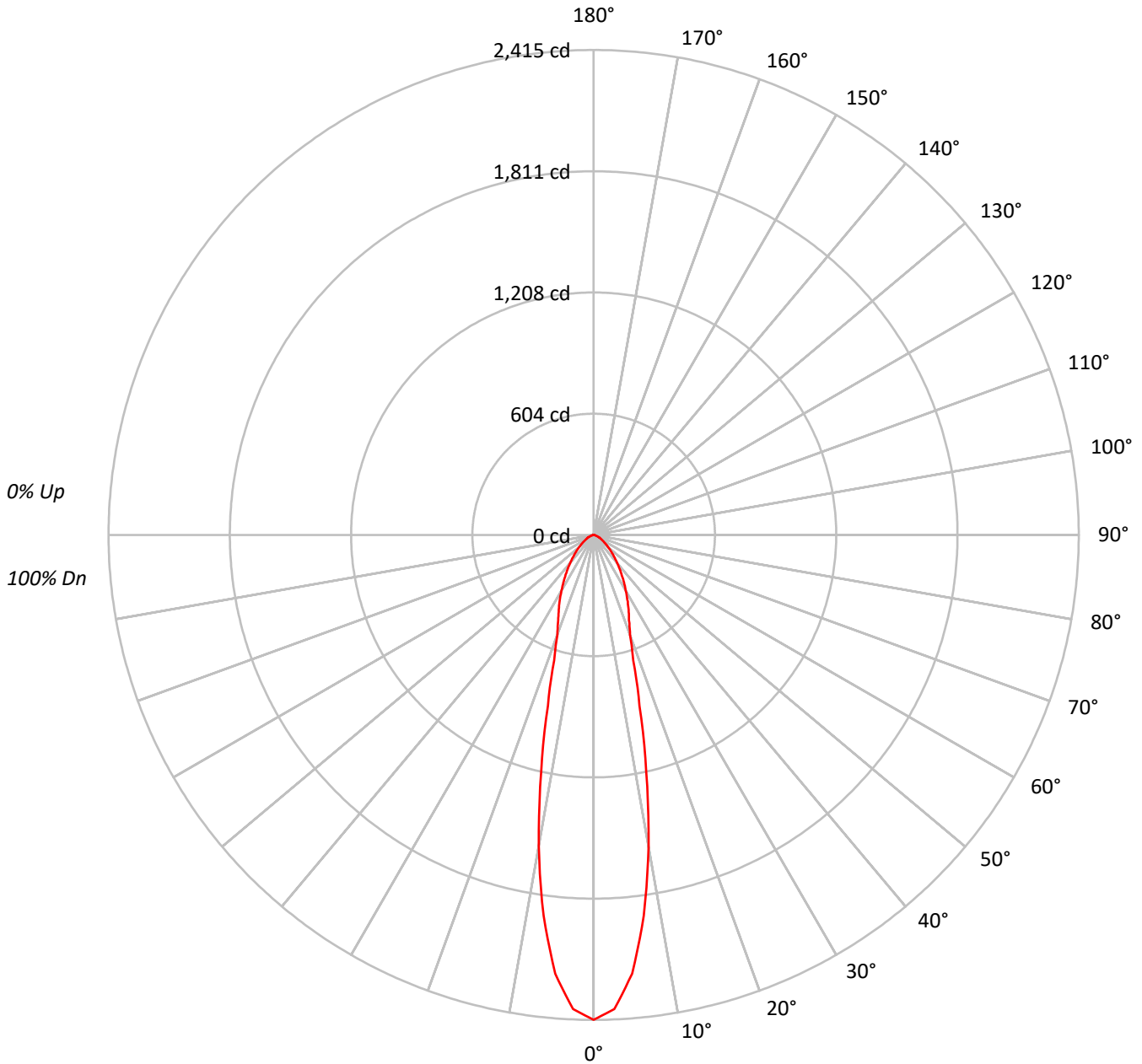
Lumens per Lamp: N/A
Luminaire Lumens: 989.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): 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°	190627
5°	173763
10°	126066
15°	71976
20°	44465
25°	35773
30°	29160
35°	23466
40°	18704
45°	14748
50°	11483
55°	9028
60°	7231
65°	5884
70°	4155
75°	2196
80°	1637
85°	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14748 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	19.1
10°-20°	253.5	25.6
20°-30°	189.3	19.1
30°-40°	153.1	15.5
40°-50°	102.9	10.4
50°-60°	59.8	6.0
60°-70°	31.4	3.2
70°-80°	9.0	0.9
80°-90°	1.2	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°	631.8	63.9
0°-40°	784.9	79.3
0°-60°	947.6	95.8
0°-90°	989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2415	
5°	2193	189
15°	881	253
25°	411	189
35°	244	153
45°	132	103
55°	66	60
65°	32	31
75°	7	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2414.8
2.5°	2362.7
5°	2192.8
7.5°	1912.4
10°	1572.7
12.5°	1207.8
15°	880.7
17.5°	655.1
20°	529.3
22.5°	460.1
25°	410.7
27.5°	364.0
30°	319.9
32.5°	280.4
35°	243.5
37.5°	211.2
40°	181.5
42.5°	155.5
45°	132.1
47.5°	111.4
50°	93.5
52.5°	78.2
55°	65.6
57.5°	54.8
60°	45.8
62.5°	37.7
65°	31.5
67.5°	26.1
70°	18.0
72.5°	11.7
75°	7.2
77.5°	4.5
80°	3.6
82.5°	1.8
85°	0.9
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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