

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: P641040

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641040
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 - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

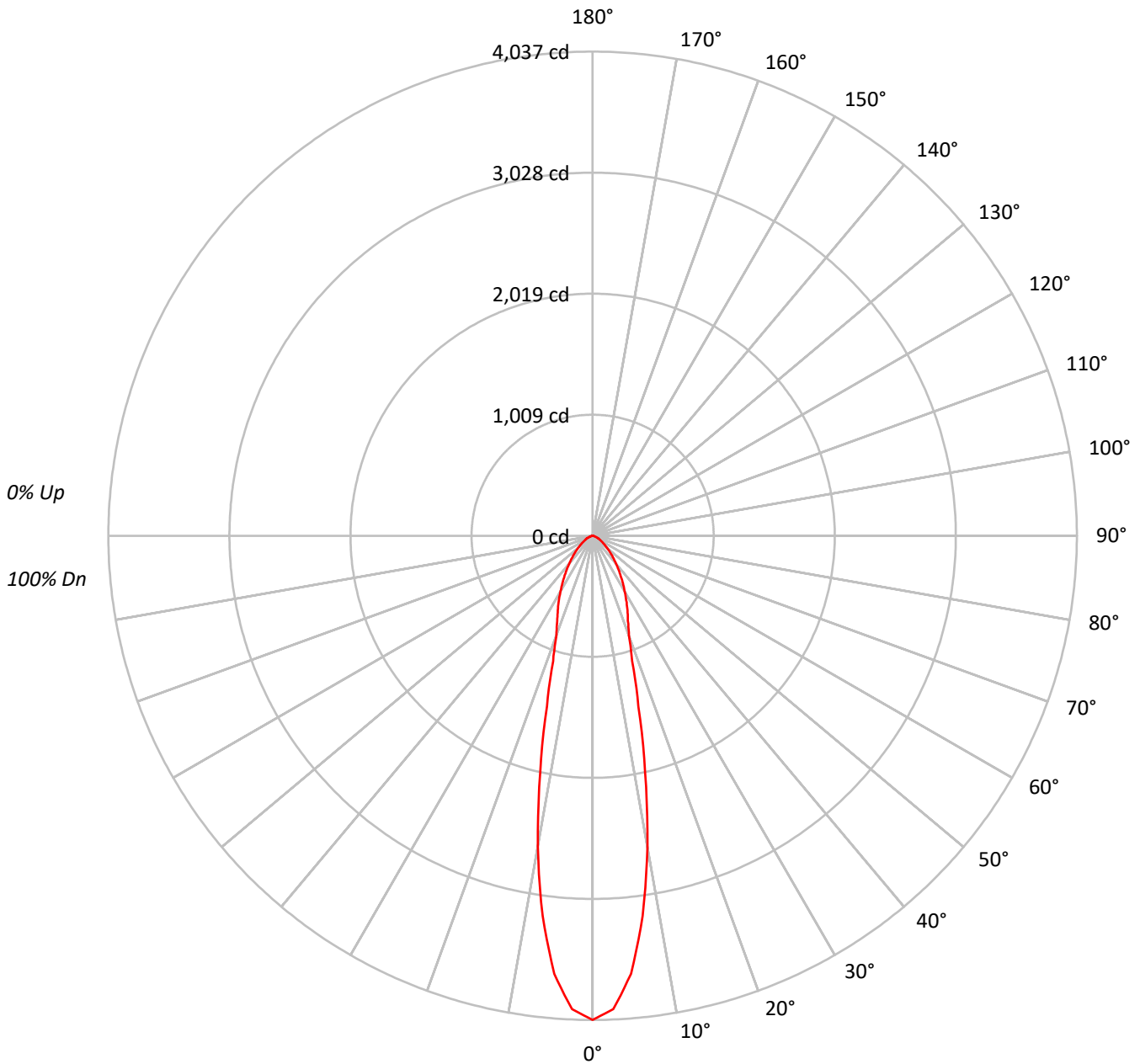
Lumens per Lamp: N/A
Luminaire Lumens: 1653.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56																			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54																			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	318669
5°	290479
10°	210745
15°	120325
20°	74338
25°	59804
30°	48749
35°	39232
40°	31276
45°	24650
50°	19183
55°	15098
60°	12094
65°	9825
70°	6924
75°	3660
80°	2728
85°	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	19.1
10°-20°	423.8	25.6
20°-30°	316.4	19.1
30°-40°	256.0	15.5
40°-50°	172.1	10.4
50°-60°	99.9	6.0
60°-70°	52.5	3.2
70°-80°	15.0	0.9
80°-90°	2.0	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°	1056.2	63.9
0°-40°	1312.2	79.4
0°-60°	1584.2	95.8
0°-90°	1653.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4037	
5°	3666	316
15°	1472	424
25°	687	316
35°	407	256
45°	221	172
55°	110	100
65°	53	52
75°	12	15
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4036.8
2.5°	3949.7
5°	3665.7
7.5°	3197.0
10°	2629.1
12.5°	2019.2
15°	1472.3
17.5°	1095.2
20°	884.9
22.5°	769.2
25°	686.6
27.5°	608.5
30°	534.8
32.5°	468.7
35°	407.1
37.5°	353.1
40°	303.5
42.5°	259.9
45°	220.8
47.5°	186.3
50°	156.2
52.5°	130.7
55°	109.7
57.5°	91.6
60°	76.6
62.5°	63.1
65°	52.6
67.5°	43.6
70°	30.0
72.5°	19.5
75°	12.0
77.5°	7.5
80°	6.0
82.5°	3.0
85°	1.5
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)