

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: P641061

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 596WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

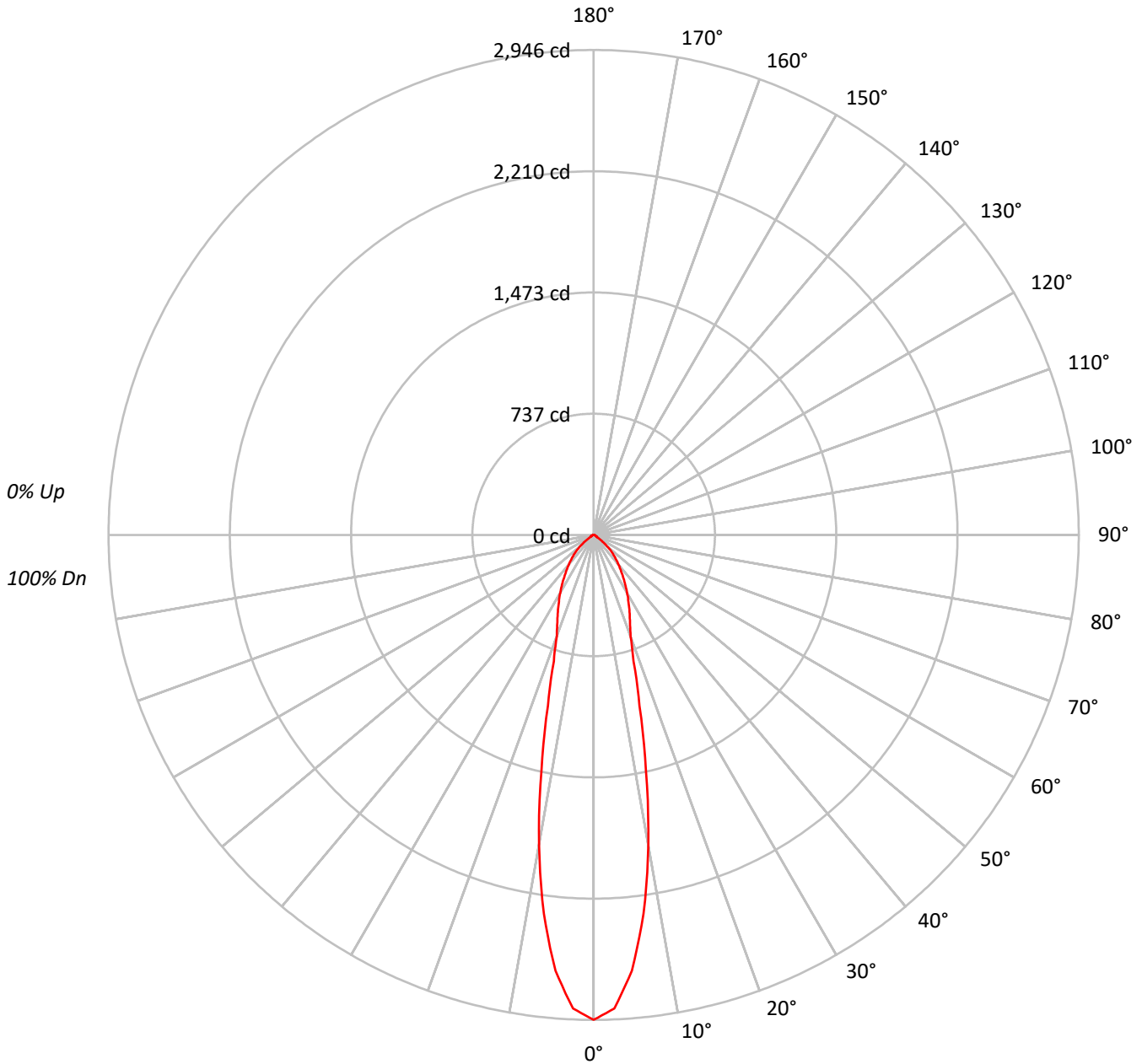
Lumens per Lamp: N/A
Luminaire Lumens: 1175.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70	70	70	70
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65	65	65	65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58	58	58	58
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232520
5°	210579
10°	153352
15°	87847
20°	54915
25°	44866
30°	37008
35°	29971
40°	24062
45°	19124
50°	12871
55°	5863
60°	3268
65°	3063
70°	2516
75°	2318
80°	2500
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19124 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	19.5
10°-20°	309.5	26.3
20°-30°	237.1	20.2
30°-40°	195.3	16.6
40°-50°	130.7	11.1
50°-60°	45.4	3.9
60°-70°	15.8	1.3
70°-80°	8.5	0.7
80°-90°	3.1	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°	776.2	66.1
0°-40°	971.5	82.7
0°-60°	1147.7	97.7
0°-90°	1175.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2946	
5°	2657	230
15°	1075	309
25°	515	237
35°	311	195
45°	171	131
55°	43	45
65°	16	16
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2945.5
2.5°	2878.9
5°	2657.4
7.5°	2321.2
10°	1913.1
12.5°	1466.7
15°	1074.9
17.5°	804.3
20°	653.7
22.5°	575.1
25°	515.1
27.5°	457.3
30°	406.0
32.5°	356.9
35°	311.0
37.5°	269.6
40°	233.5
42.5°	200.8
45°	171.3
47.5°	140.8
50°	104.8
52.5°	74.2
55°	42.6
57.5°	26.2
60°	20.7
62.5°	18.6
65°	16.4
67.5°	13.1
70°	10.9
72.5°	8.7
75°	7.6
77.5°	7.6
80°	5.5
82.5°	4.4
85°	3.3
87.5°	1.1
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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