

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: P641229

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

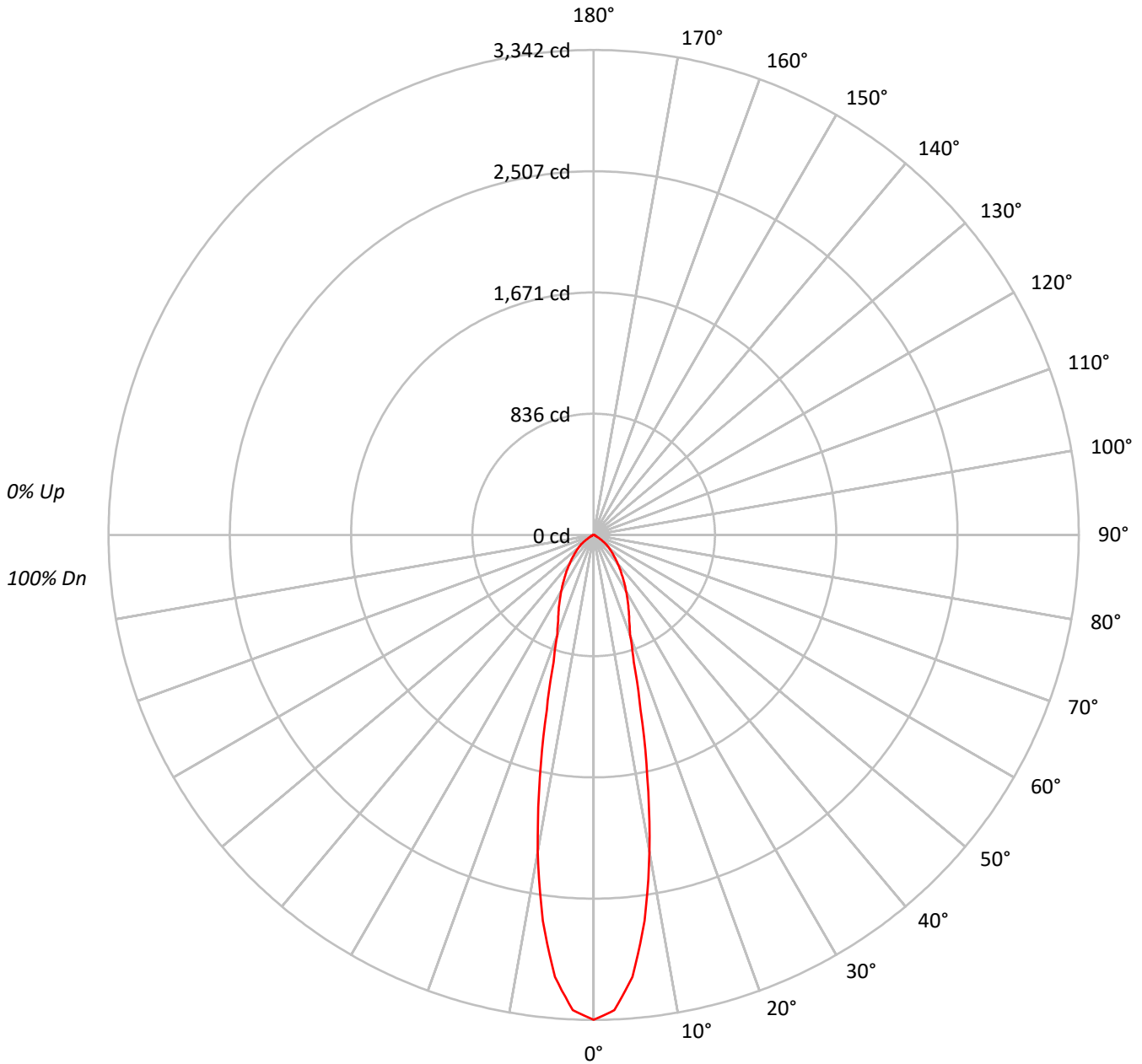
Lumens per Lamp: N/A
Luminaire Lumens: 1348.2 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74			74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65			65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58			58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55			55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183182
5°	168258
10°	123339
15°	70863
20°	42750
25°	34502
30°	28258
35°	22901
40°	18370
45°	14614
50°	11522
55°	8057
60°	3530
65°	2088
70°	1587
75°	1313
80°	1168
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	19.6
10°-20°	357.2	26.5
20°-30°	263.0	19.5
30°-40°	214.9	15.9
40°-50°	146.8	10.9
50°-60°	74.8	5.6
60°-70°	17.7	1.3
70°-80°	6.7	0.5
80°-90°	2.5	0.2
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°	884.7	65.6
0°-40°	1099.6	81.6
0°-60°	1321.3	98.0
0°-90°	1348.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1348.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3342	
5°	3058	264
15°	1249	357
25°	570	263
35°	342	215
45°	188	147
55°	84	75
65°	16	18
75°	6	7
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3341.5
2.5°	3278.3
5°	3057.6
7.5°	2683.1
10°	2215.7
12.5°	1709.8
15°	1248.6
17.5°	918.8
20°	732.8
22.5°	639.8
25°	570.4
27.5°	505.9
30°	446.4
32.5°	391.8
35°	342.2
37.5°	297.6
40°	256.7
42.5°	220.7
45°	188.5
47.5°	159.9
50°	135.1
52.5°	112.8
55°	84.3
57.5°	57.0
60°	32.2
62.5°	21.1
65°	16.1
67.5°	13.6
70°	9.9
72.5°	7.4
75°	6.2
77.5°	5.0
80°	3.7
82.5°	3.7
85°	2.5
87.5°	1.2
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)