

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: P641217

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641217
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 - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.7 lumens
Efficiency: N/A
Efficacy: 89.5 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

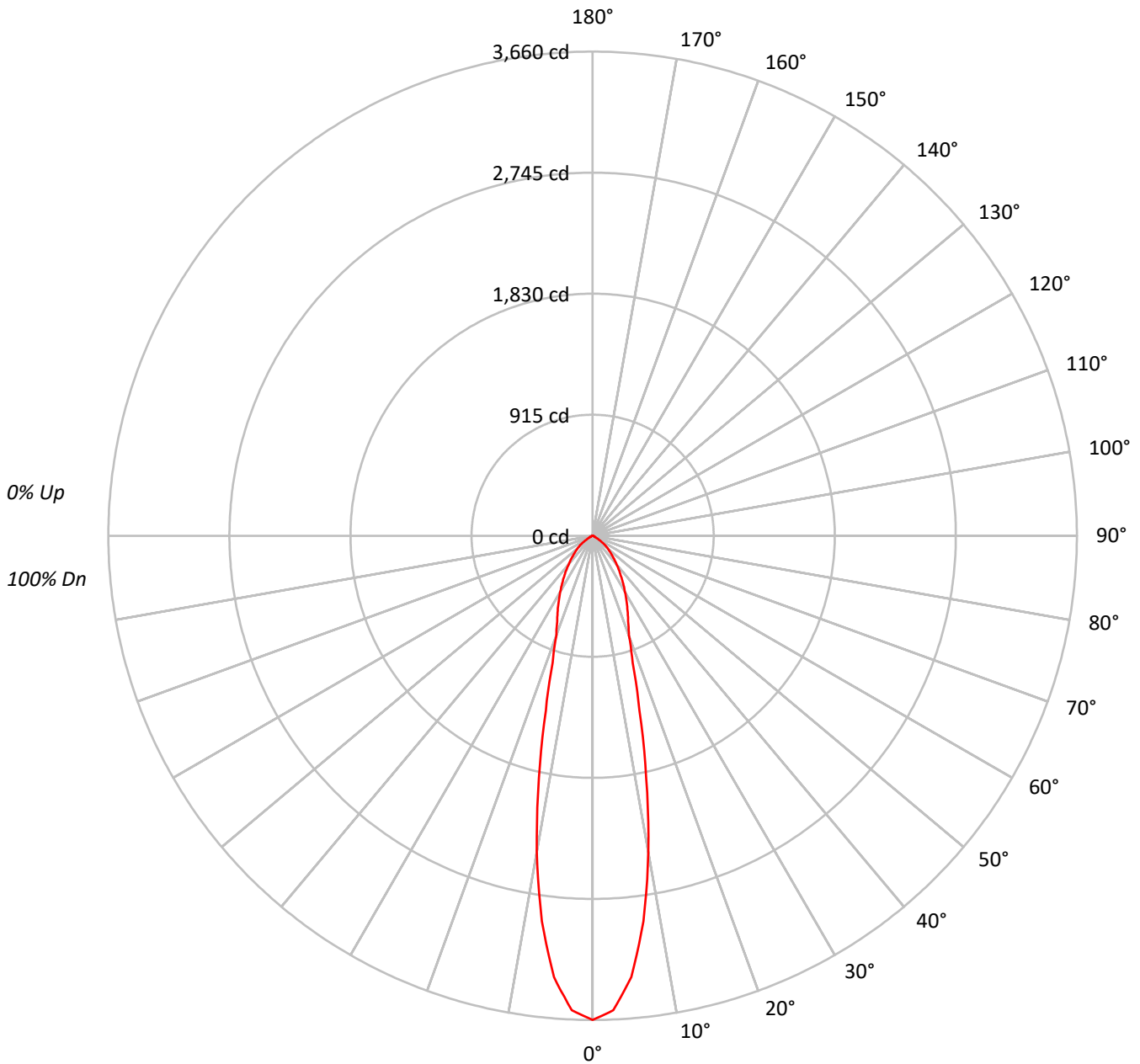
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	200636
5°	184289
10°	135090
15°	77611
20°	46822
25°	37786
30°	30948
35°	25083
40°	20116
45°	16002
50°	12622
55°	8822
60°	3870
65°	2296
70°	1747
75°	1440
80°	1294
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	19.6
10°-20°	391.3	26.5
20°-30°	288.1	19.5
30°-40°	235.4	15.9
40°-50°	160.8	10.9
50°-60°	82.0	5.6
60°-70°	19.4	1.3
70°-80°	7.3	0.5
80°-90°	2.8	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°	968.9	65.6
0°-40°	1204.3	81.6
0°-60°	1447.1	98.0
0°-90°	1476.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3660	
5°	3349	290
15°	1368	391
25°	625	288
35°	375	235
45°	206	161
55°	92	82
65°	18	19
75°	7	7
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3659.9
2.5°	3590.6
5°	3348.9
7.5°	2938.8
10°	2426.8
12.5°	1872.7
15°	1367.5
17.5°	1006.3
20°	802.6
22.5°	700.7
25°	624.7
27.5°	554.1
30°	488.9
32.5°	429.1
35°	374.8
37.5°	325.9
40°	281.1
42.5°	241.7
45°	206.4
47.5°	175.2
50°	148.0
52.5°	123.6
55°	92.3
57.5°	62.5
60°	35.3
62.5°	23.1
65°	17.7
67.5°	14.9
70°	10.9
72.5°	8.1
75°	6.8
77.5°	5.4
80°	4.1
82.5°	4.1
85°	2.7
87.5°	1.4
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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