

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: P641219

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641219
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 - 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

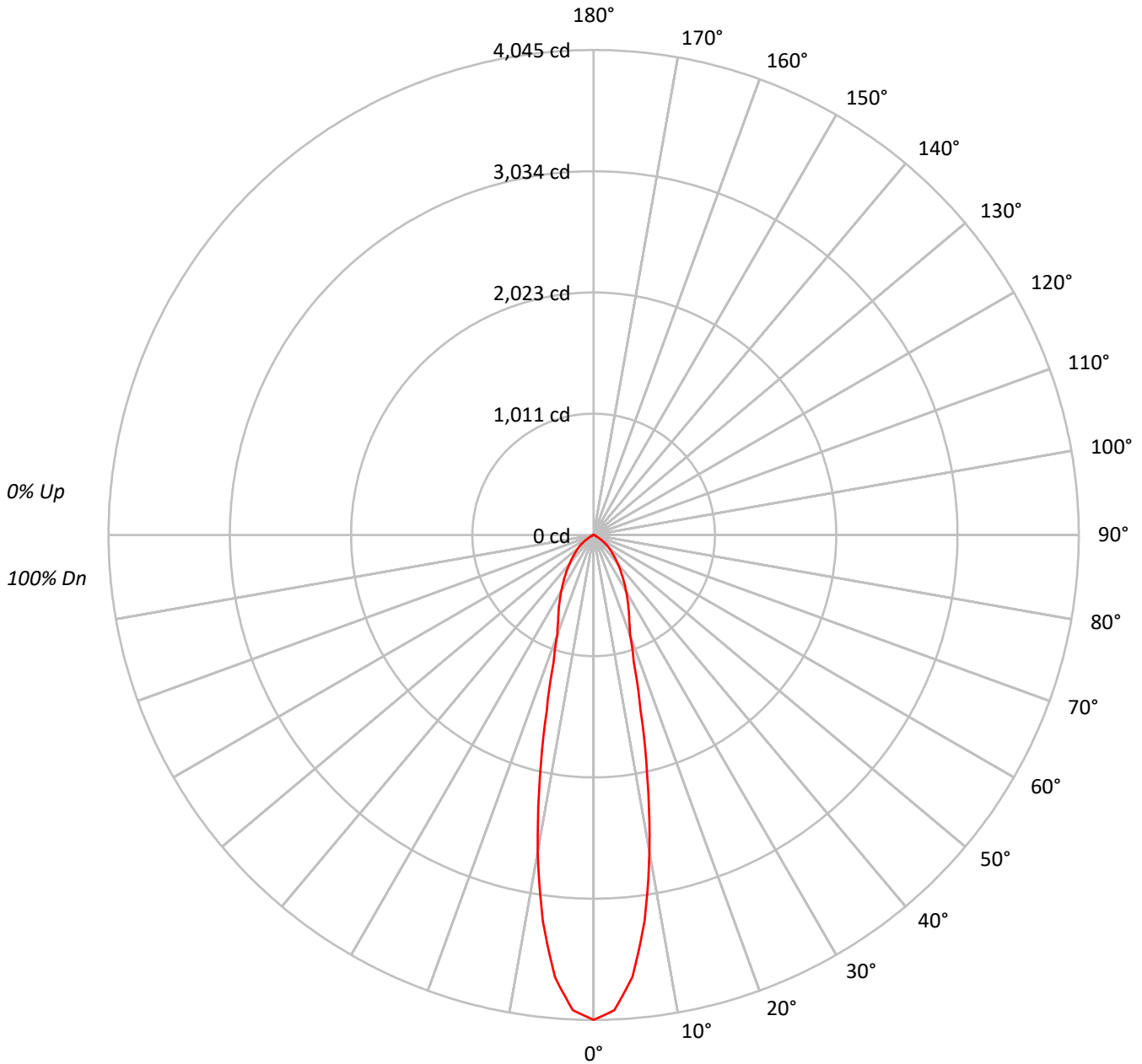
Lumens per Lamp: N/A
Luminaire Lumens: 1632.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	221753
5°	203686
10°	149307
15°	85784
20°	51752
25°	41760
30°	34201
35°	27726
40°	22235
45°	17684
50°	13953
55°	9758
60°	4276
65°	2529
70°	1923
75°	1589
80°	1421
85°	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17684 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	19.6
10°-20°	432.5	26.5
20°-30°	318.4	19.5
30°-40°	260.1	15.9
40°-50°	177.7	10.9
50°-60°	90.6	5.6
60°-70°	21.4	1.3
70°-80°	8.1	0.5
80°-90°	3.1	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°	1070.9	65.6
0°-40°	1331.1	81.6
0°-60°	1599.4	98.0
0°-90°	1632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4045	
5°	3701	320
15°	1512	432
25°	690	318
35°	414	260
45°	228	178
55°	102	91
65°	20	21
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4045.1
2.5°	3968.5
5°	3701.4
7.5°	3248.1
10°	2682.2
12.5°	2069.8
15°	1511.5
17.5°	1112.2
20°	887.1
22.5°	774.5
25°	690.4
27.5°	612.4
30°	540.3
32.5°	474.3
35°	414.3
37.5°	360.2
40°	310.7
42.5°	267.2
45°	228.1
47.5°	193.6
50°	163.6
52.5°	136.6
55°	102.1
57.5°	69.0
60°	39.0
62.5°	25.5
65°	19.5
67.5°	16.5
70°	12.0
72.5°	9.0
75°	7.5
77.5°	6.0
80°	4.5
82.5°	4.5
85°	3.0
87.5°	1.5
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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