

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: P641184

Luminaire Tested: ML5612LSNFL2597FS1E - 693WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

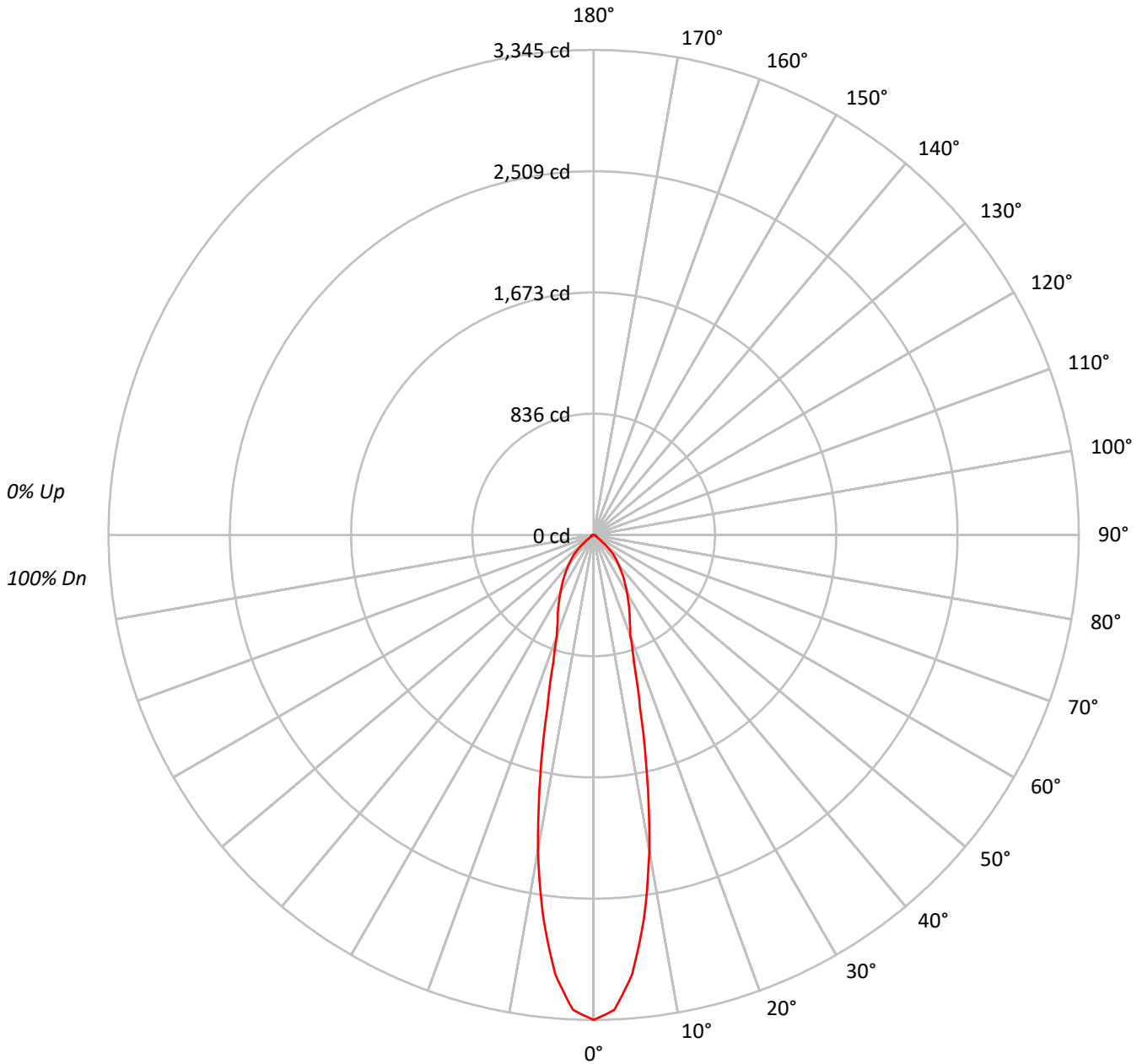
Lumens per Lamp: N/A
Luminaire Lumens: 1323.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78		84	81	77		82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78	75	72	70
6	88	79	73	69	87	79	73	69	77	72	68		76	71	68		74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64		72	67	64		71	67	64	62
8	80	71	65	61	79	71	65	61	70	64	61		68	64	61		68	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		65	60	57	56
10	74	65	59	55	73	64	59	55	63	58	55		63	58	55		62	58	55	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183395
5°	167372
10°	123044
15°	70120
20°	43200
25°	35264
30°	29055
35°	23825
40°	19086
45°	15002
50°	8571
55°	3087
60°	2588
65°	2257
70°	1988
75°	2097
80°	2336
85°	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	19.9
10°-20°	356.3	26.9
20°-30°	268.4	20.3
30°-40°	222.7	16.8
40°-50°	143.5	10.8
50°-60°	38.1	2.9
60°-70°	17.0	1.3
70°-80°	10.5	0.8
80°-90°	3.7	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°	887.8	67.1
0°-40°	1110.6	83.9
0°-60°	1292.2	97.6
0°-90°	1323.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3345	
5°	3042	263
15°	1236	356
25°	583	268
35°	356	223
45°	194	144
55°	32	38
65°	17	17
75°	10	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3345.4
2.5°	3279.7
5°	3041.5
7.5°	2663.2
10°	2210.4
12.5°	1698.1
15°	1235.5
17.5°	924.1
20°	740.5
22.5°	650.0
25°	583.0
27.5°	518.5
30°	459.0
32.5°	405.6
35°	356.0
37.5°	308.9
40°	266.7
42.5°	229.5
45°	193.5
47.5°	143.9
50°	100.5
52.5°	52.1
55°	32.3
57.5°	26.0
60°	23.6
62.5°	19.8
65°	17.4
67.5°	13.6
70°	12.4
72.5°	11.2
75°	9.9
77.5°	8.7
80°	7.4
82.5°	5.0
85°	3.7
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)