

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: P641128

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693BB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

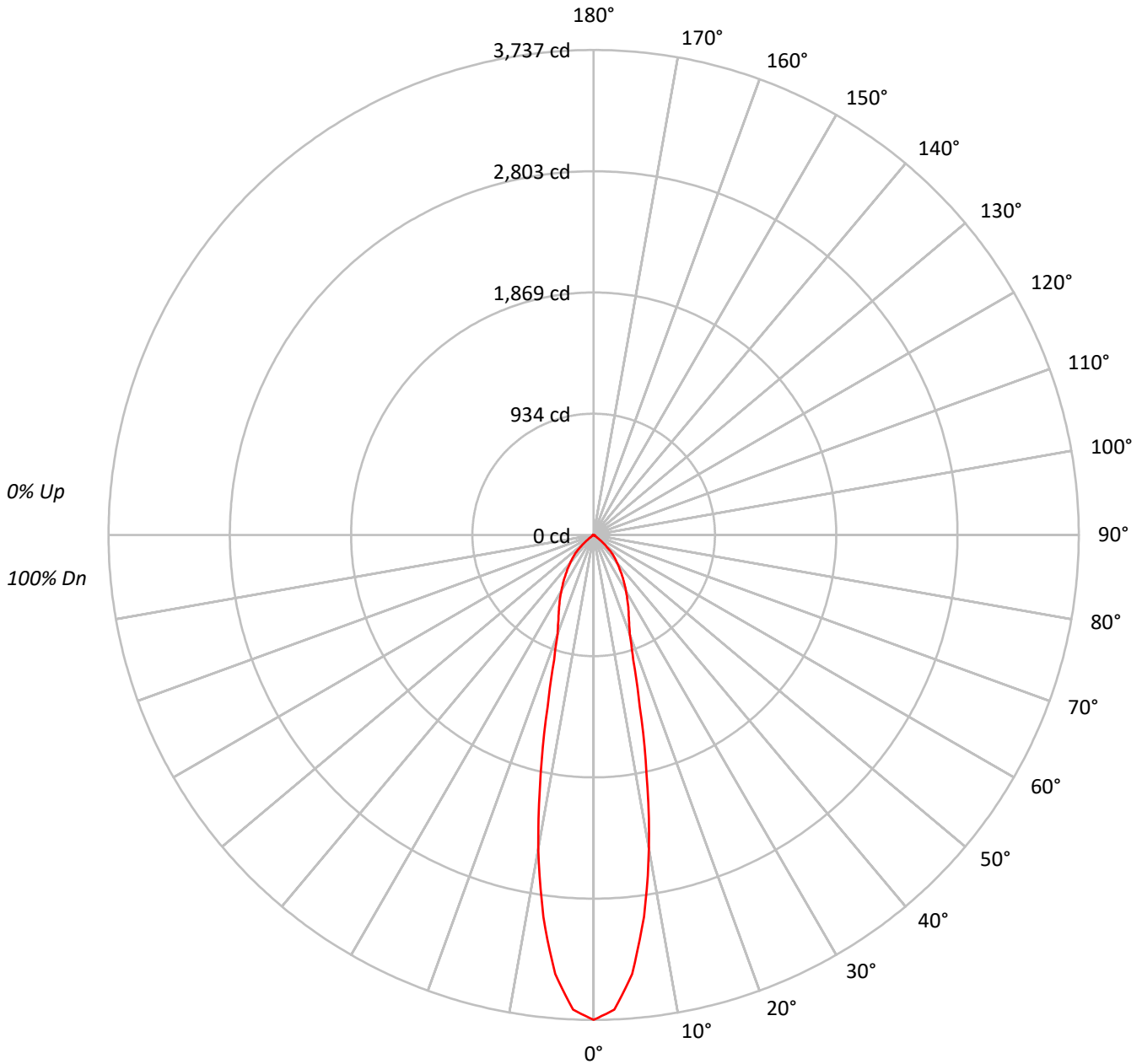
Lumens per Lamp: N/A
Luminaire Lumens: 1393.4 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82			
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73			
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61			
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59			
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	204841
5°	186875
10°	136643
15°	77742
20°	47330
25°	38343
30°	31467
35°	25417
40°	20088
45°	15265
50°	7744
55°	1739
60°	1074
65°	545
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.4	21.1
10°-20°	393.6	28.2
20°-30°	292.0	21.0
30°-40°	238.2	17.1
40°-50°	145.6	10.4
50°-60°	26.4	1.9
60°-70°	4.3	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	978.9	70.3
0°-40°	1217.2	87.4
0°-60°	1389.1	99.7
0°-90°	1393.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3737	
5°	3396	293
15°	1370	394
25°	634	292
35°	380	238
45°	197	146
55°	18	26
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3736.6
2.5°	3661.2
5°	3395.9
7.5°	2967.2
10°	2454.7
12.5°	1883.7
15°	1369.8
17.5°	1010.9
20°	811.3
22.5°	707.9
25°	633.9
27.5°	562.7
30°	497.1
32.5°	437.1
35°	379.8
37.5°	328.1
40°	280.7
42.5°	238.8
45°	196.9
47.5°	141.0
50°	90.8
52.5°	39.1
55°	18.2
57.5°	12.6
60°	9.8
62.5°	7.0
65°	4.2
67.5°	1.4
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)