

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: P641159

Luminaire Tested: ML5612LSNFL2597FS1E - 693TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693TBZB - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 92.0 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

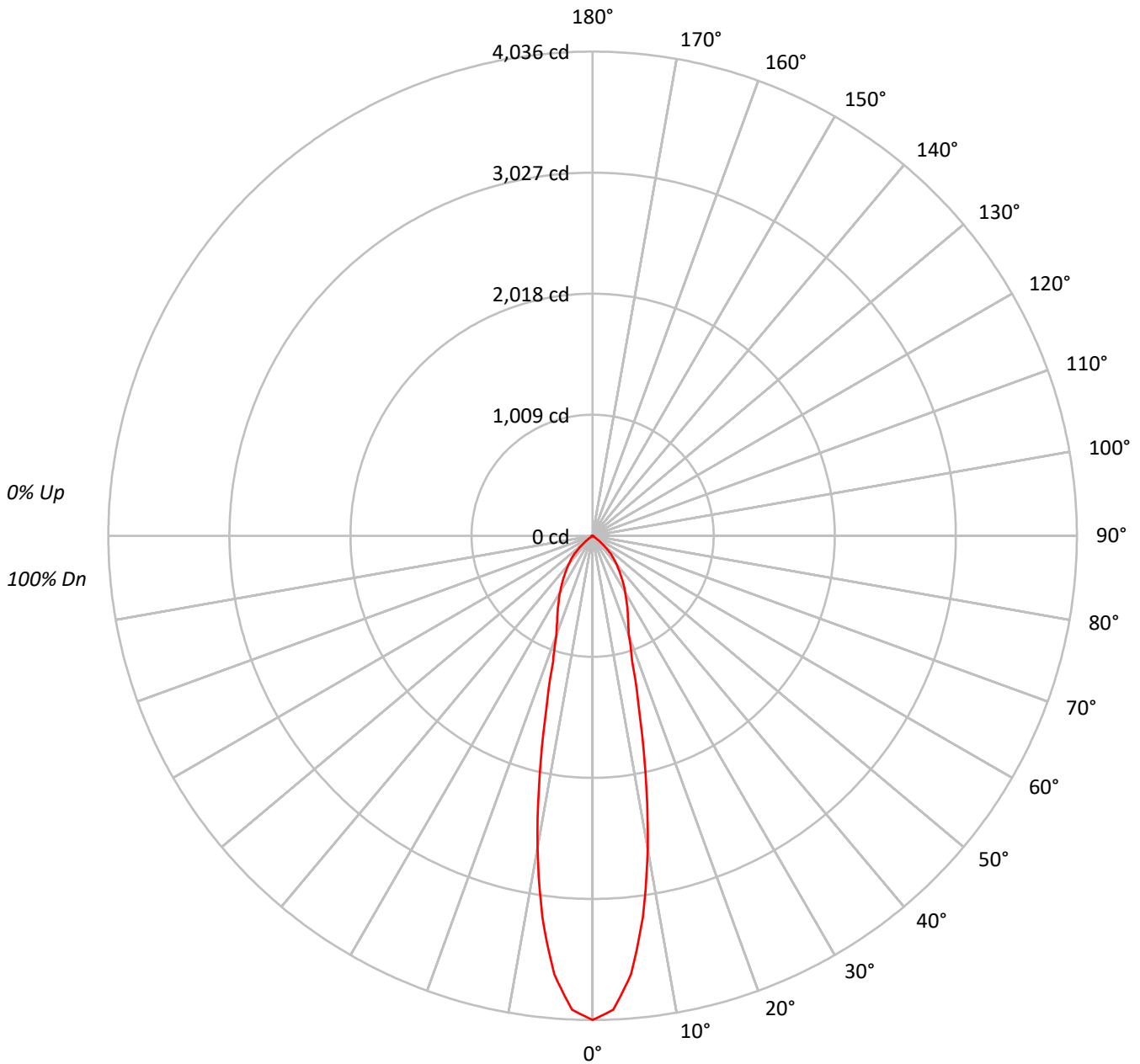
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
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	93	96	94	91	93	91	90	88			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72			
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	63	61			
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	221227
5°	201826
10°	147309
15°	84302
20°	51431
25°	41700
30°	34322
35°	27840
40°	22034
45°	16885
50°	8580
55°	2150
60°	1316
65°	584
70°	240
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	20.9
10°-20°	426.0	28.1
20°-30°	317.6	20.9
30°-40°	260.8	17.2
40°-50°	160.6	10.6
50°-60°	30.5	2.0
60°-70°	5.0	0.3
70°-80°	0.6	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°	1060.5	69.9
0°-40°	1321.3	87.0
0°-60°	1512.4	99.6
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4036	
5°	3668	317
15°	1485	426
25°	689	318
35°	416	261
45°	218	161
55°	22	30
65°	4	5
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4035.5
2.5°	3954.4
5°	3667.6
7.5°	3208.0
10°	2646.3
12.5°	2035.0
15°	1485.4
17.5°	1096.4
20°	881.6
22.5°	770.5
25°	689.4
27.5°	611.3
30°	542.2
32.5°	477.6
35°	416.0
37.5°	360.5
40°	307.9
42.5°	262.8
45°	217.8
47.5°	156.2
50°	100.6
52.5°	45.1
55°	22.5
57.5°	15.0
60°	12.0
62.5°	7.5
65°	4.5
67.5°	1.5
70°	1.5
72.5°	1.5
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)