

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641033

Luminaire Tested: ML5612LSNFL2597FS1E - 594TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594TBZB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1261.1 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

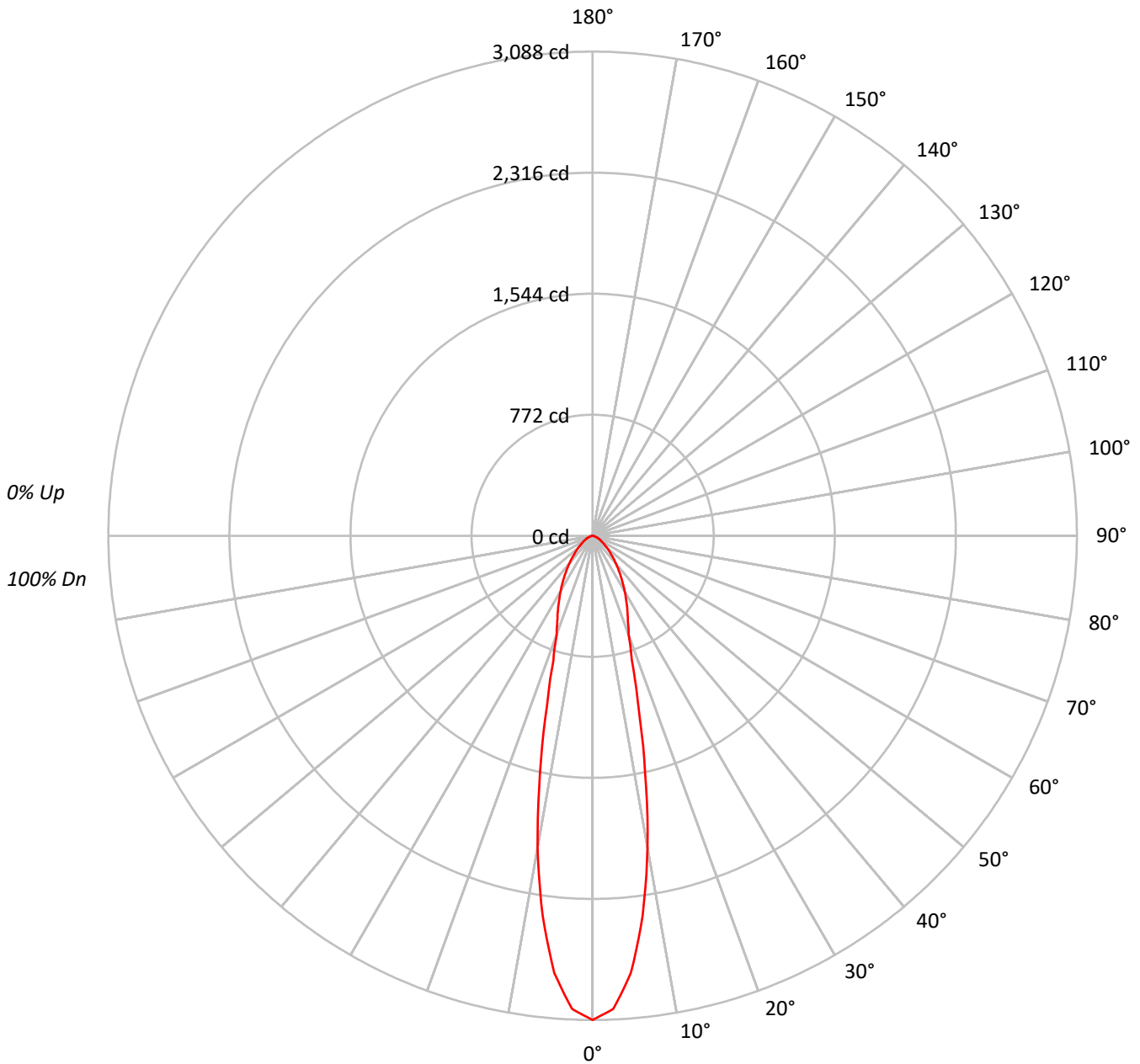
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	243809
5°	221815
10°	161840
15°	91827
20°	56444
25°	45572
30°	37190
35°	29990
40°	23753
45°	18655
50°	14578
55°	11423
60°	9094
65°	7528
70°	5309
75°	2806
80°	2091
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	19.2
10°-20°	323.8	25.7
20°-30°	241.3	19.1
30°-40°	195.3	15.5
40°-50°	130.6	10.4
50°-60°	75.6	6.0
60°-70°	39.8	3.2
70°-80°	11.5	0.9
80°-90°	1.6	0.1
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°	806.8	64.0
0°-40°	1002.0	79.5
0°-60°	1208.2	95.8
0°-90°	1261.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3088	
5°	2799	242
15°	1124	324
25°	523	241
35°	311	195
45°	167	131
55°	83	76
65°	40	40
75°	9	12
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3088.5
2.5°	3020.5
5°	2799.2
7.5°	2443.1
10°	2019.0
12.5°	1547.7
15°	1123.6
17.5°	833.2
20°	671.9
22.5°	587.7
25°	523.2
27.5°	464.4
30°	408.0
32.5°	358.4
35°	311.2
37.5°	268.5
40°	230.5
42.5°	197.1
45°	167.1
47.5°	141.7
50°	118.7
52.5°	99.1
55°	83.0
57.5°	69.1
60°	57.6
62.5°	48.4
65°	40.3
67.5°	32.3
70°	23.0
72.5°	15.0
75°	9.2
77.5°	5.8
80°	4.6
82.5°	2.3
85°	1.2
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)