

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: P640963

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1405.3 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

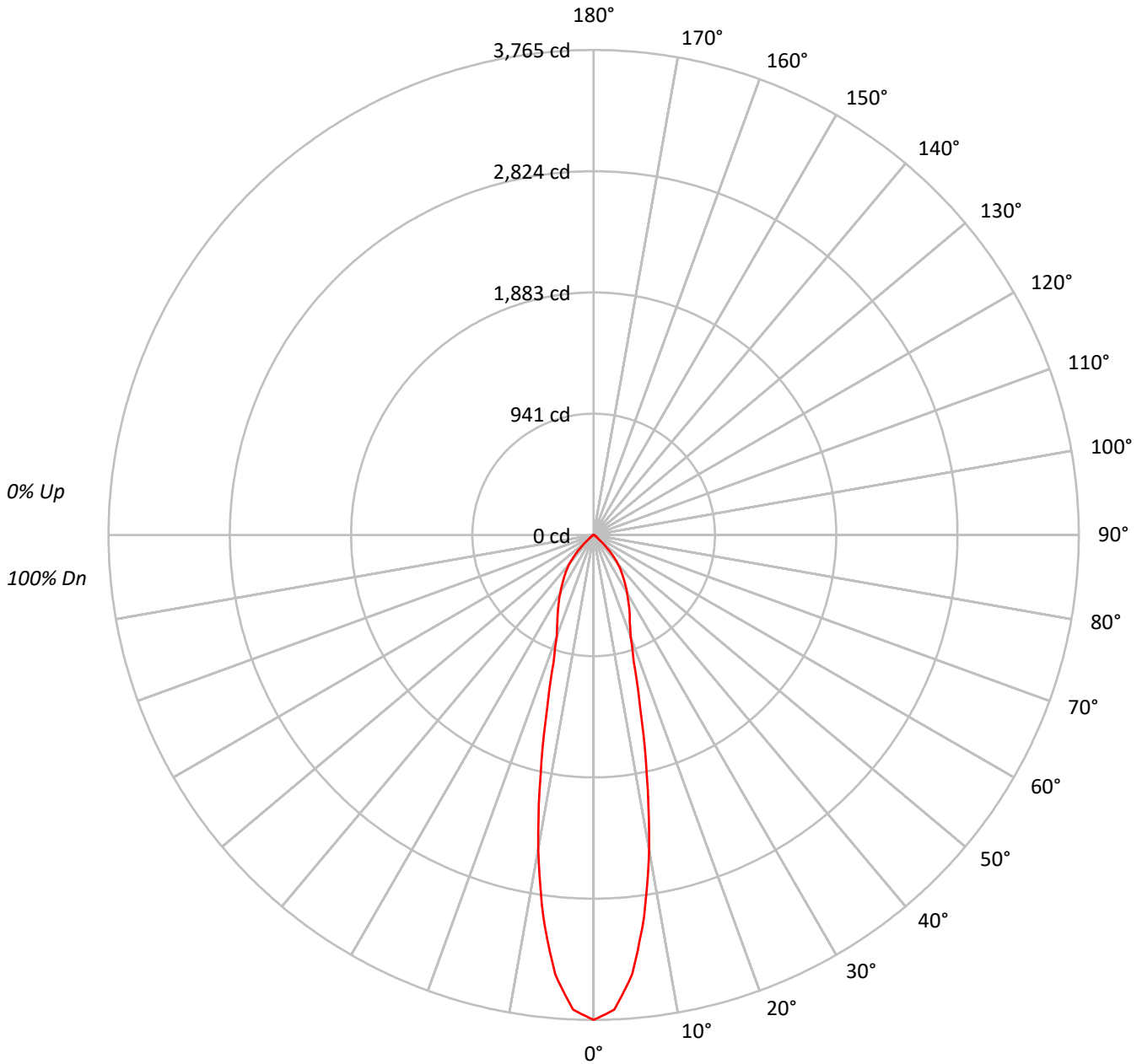
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83					83			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77					77			
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73					73			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65					65			
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62					62			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59					59			
10	76	67	61	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56					56			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297205
5°	271358
10°	198433
15°	113926
20°	70222
25°	57365
30°	47190
35°	38326
40°	30194
45°	18387
50°	5821
55°	3069
60°	2210
65°	1308
70°	646
75°	427
80°	636
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	21.1
10°-20°	400.2	28.5
20°-30°	302.9	21.6
30°-40°	249.0	17.7
40°-50°	125.2	8.9
50°-60°	22.3	1.6
60°-70°	7.2	0.5
70°-80°	2.0	0.1
80°-90°	0.6	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°	999.0	71.1
0°-40°	1248.0	88.8
0°-60°	1395.4	99.3
0°-90°	1405.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3765	
5°	3424	296
15°	1394	400
25°	659	303
35°	398	249
45°	165	125
55°	22	22
65°	7	7
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3764.9
2.5°	3689.5
5°	3424.4
7.5°	2993.2
10°	2475.5
12.5°	1904.8
15°	1394.0
17.5°	1035.4
20°	835.9
22.5°	734.0
25°	658.6
27.5°	584.7
30°	517.7
32.5°	454.9
35°	397.7
37.5°	344.7
40°	293.0
42.5°	224.7
45°	164.7
47.5°	100.5
50°	47.4
52.5°	29.3
55°	22.3
57.5°	18.1
60°	14.0
62.5°	9.8
65°	7.0
67.5°	4.2
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
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)