

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: P640621

Luminaire Tested: ML5612LSFL4097FS1E - 593SNB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593SNB - 600LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

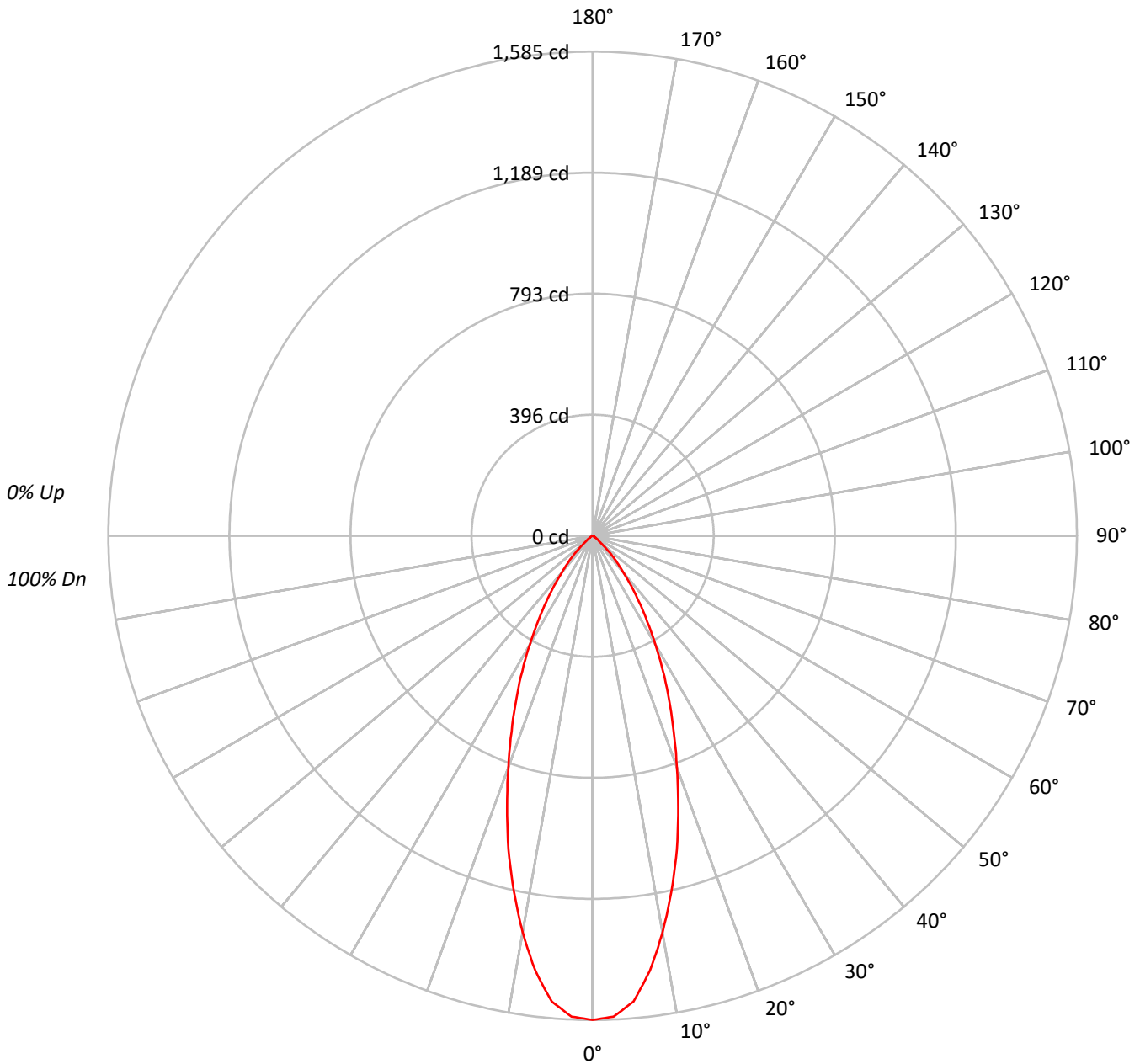
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72			
6	89	81	75	71	88	80	74	70	78	73	70	77	73	69	76	72	69	68			
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57			
10	74	65	59	56	73	65	59	56	64	59	55	63	59	55	62	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125106
5°	121273
10°	105641
15°	86923
20°	67710
25°	51547
30°	37437
35°	25567
40°	16035
45°	9489
50°	3549
55°	2106
60°	1216
65°	486
70°	208
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	14.5
10°-20°	293.5	30.7
20°-30°	271.4	28.4
30°-40°	168.0	17.6
40°-50°	65.5	6.9
50°-60°	14.6	1.5
60°-70°	3.4	0.4
70°-80°	0.6	0.1
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°	703.9	73.6
0°-40°	871.8	91.2
0°-60°	952.0	99.6
0°-90°	956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1585	
5°	1530	139
15°	1064	294
25°	592	271
35°	265	168
45°	85	66
55°	15	15
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1584.8
2.5°	1575.5
5°	1530.4
7.5°	1436.0
10°	1317.9
12.5°	1191.2
15°	1063.6
17.5°	930.2
20°	806.0
22.5°	692.9
25°	591.8
27.5°	498.2
30°	410.7
32.5°	333.3
35°	265.3
37.5°	207.5
40°	155.6
42.5°	118.2
45°	85.0
47.5°	50.2
50°	28.9
52.5°	21.3
55°	15.3
57.5°	11.1
60°	7.7
62.5°	6.0
65°	2.6
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
80°	0.0
82.5°	0.0
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)