

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: P640309

Luminaire Tested: ML5609LSFL40D2W1E - 593SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640309
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: ML5609LSFL40D2W1E - 593SNB - 900LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

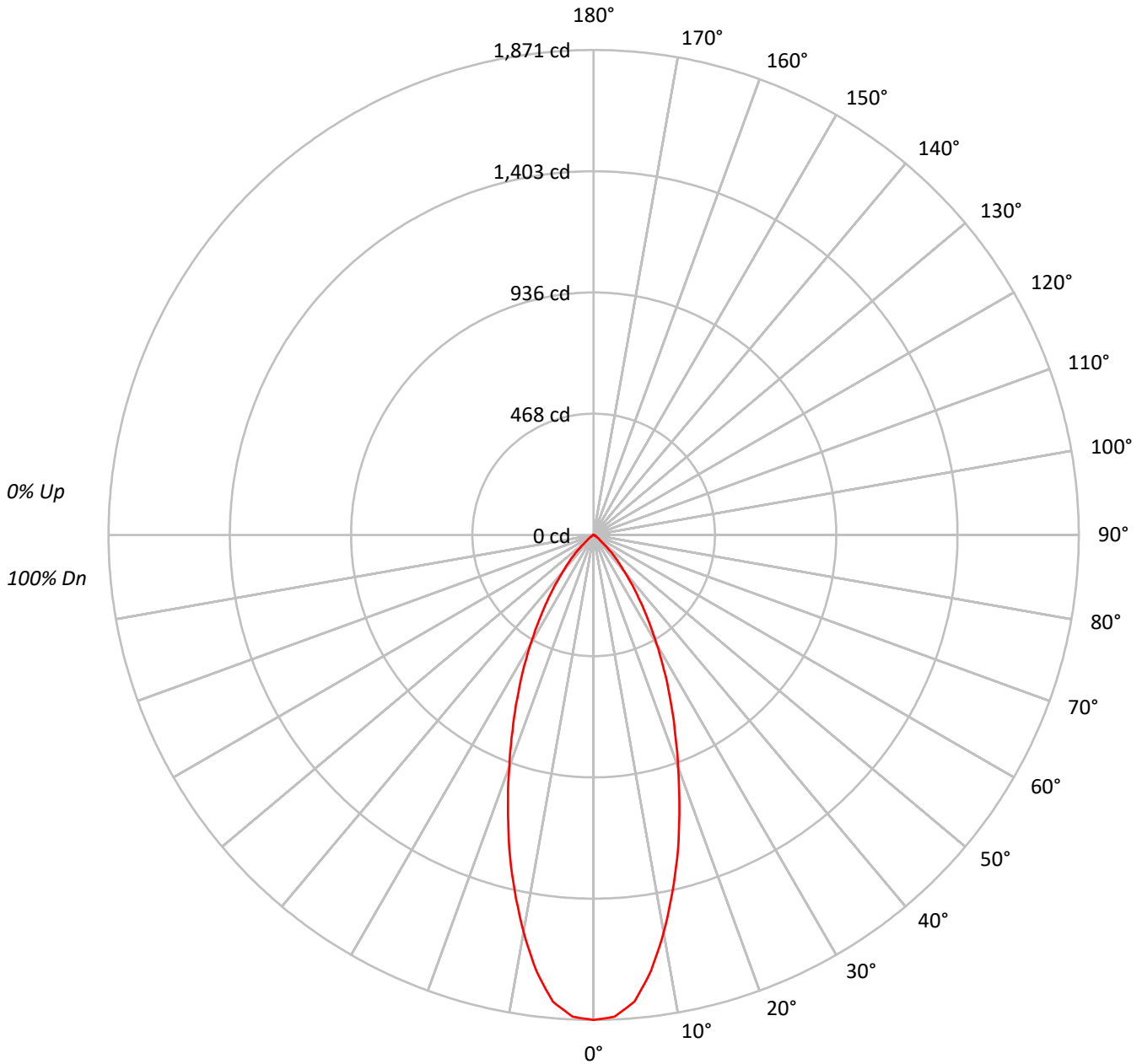
Lumens per Lamp: N/A
Luminaire Lumens: 1128.7 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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	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	74	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	56	63	59	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147730
5°	143199
10°	124743
15°	102647
20°	79958
25°	60867
30°	44200
35°	30183
40°	18930
45°	11209
50°	4188
55°	2491
60°	1421
65°	560
70°	231
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11209 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	14.5
10°-20°	346.6	30.7
20°-30°	320.5	28.4
30°-40°	198.3	17.6
40°-50°	77.4	6.9
50°-60°	17.2	1.5
60°-70°	3.9	0.3
70°-80°	0.7	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°	831.2	73.6
0°-40°	1029.5	91.2
0°-60°	1124.1	99.6
0°-90°	1128.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1871	
5°	1807	164
15°	1256	347
25°	699	320
35°	313	198
45°	100	77
55°	18	17
65°	3	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1871.4
2.5°	1860.4
5°	1807.1
7.5°	1695.7
10°	1556.2
12.5°	1406.6
15°	1256.0
17.5°	1098.3
20°	951.8
22.5°	818.2
25°	698.8
27.5°	588.3
30°	484.9
32.5°	393.6
35°	313.2
37.5°	245.0
40°	183.7
42.5°	139.6
45°	100.4
47.5°	59.2
50°	34.1
52.5°	25.1
55°	18.1
57.5°	13.1
60°	9.0
62.5°	7.0
65°	3.0
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
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)