

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: P640356

Luminaire Tested: ML5609LSNFL25D2W1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640356
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: ML5609LSNFL25D2W1E - 593SNB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1085.4 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

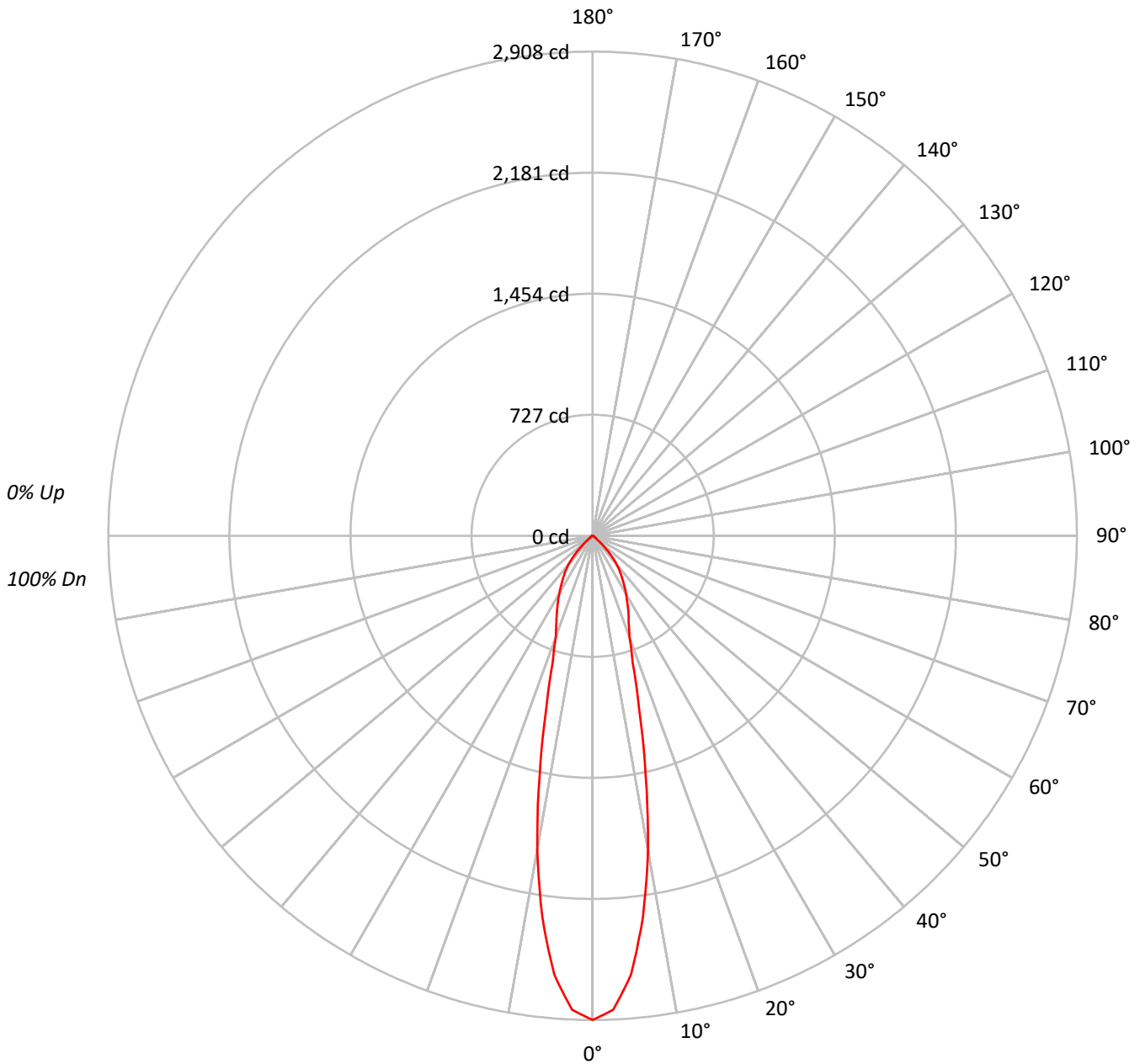
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229552
5°	209588
10°	153263
15°	87994
20°	54235
25°	44309
30°	36452
35°	29605
40°	23320
45°	14201
50°	4495
55°	2367
60°	1705
65°	1009
70°	508
75°	336
80°	500
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	21.1
10°-20°	309.1	28.5
20°-30°	234.0	21.6
30°-40°	192.3	17.7
40°-50°	96.7	8.9
50°-60°	17.2	1.6
60°-70°	5.6	0.5
70°-80°	1.6	0.1
80°-90°	0.4	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°	771.6	71.1
0°-40°	963.9	88.8
0°-60°	1077.8	99.3
0°-90°	1085.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2908	
5°	2645	229
15°	1077	309
25°	509	234
35°	307	192
45°	127	97
55°	17	17
65°	5	6
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2907.9
2.5°	2849.7
5°	2644.9
7.5°	2311.9
10°	1912.0
12.5°	1471.2
15°	1076.7
17.5°	799.7
20°	645.6
22.5°	566.9
25°	508.7
27.5°	451.6
30°	399.9
32.5°	351.4
35°	307.2
37.5°	266.2
40°	226.3
42.5°	173.5
45°	127.2
47.5°	77.6
50°	36.6
52.5°	22.6
55°	17.2
57.5°	14.0
60°	10.8
62.5°	7.5
65°	5.4
67.5°	3.2
70°	2.2
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
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)