

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: P640359

Luminaire Tested: ML5609LSNFL25D2W1E - 593WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 593WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

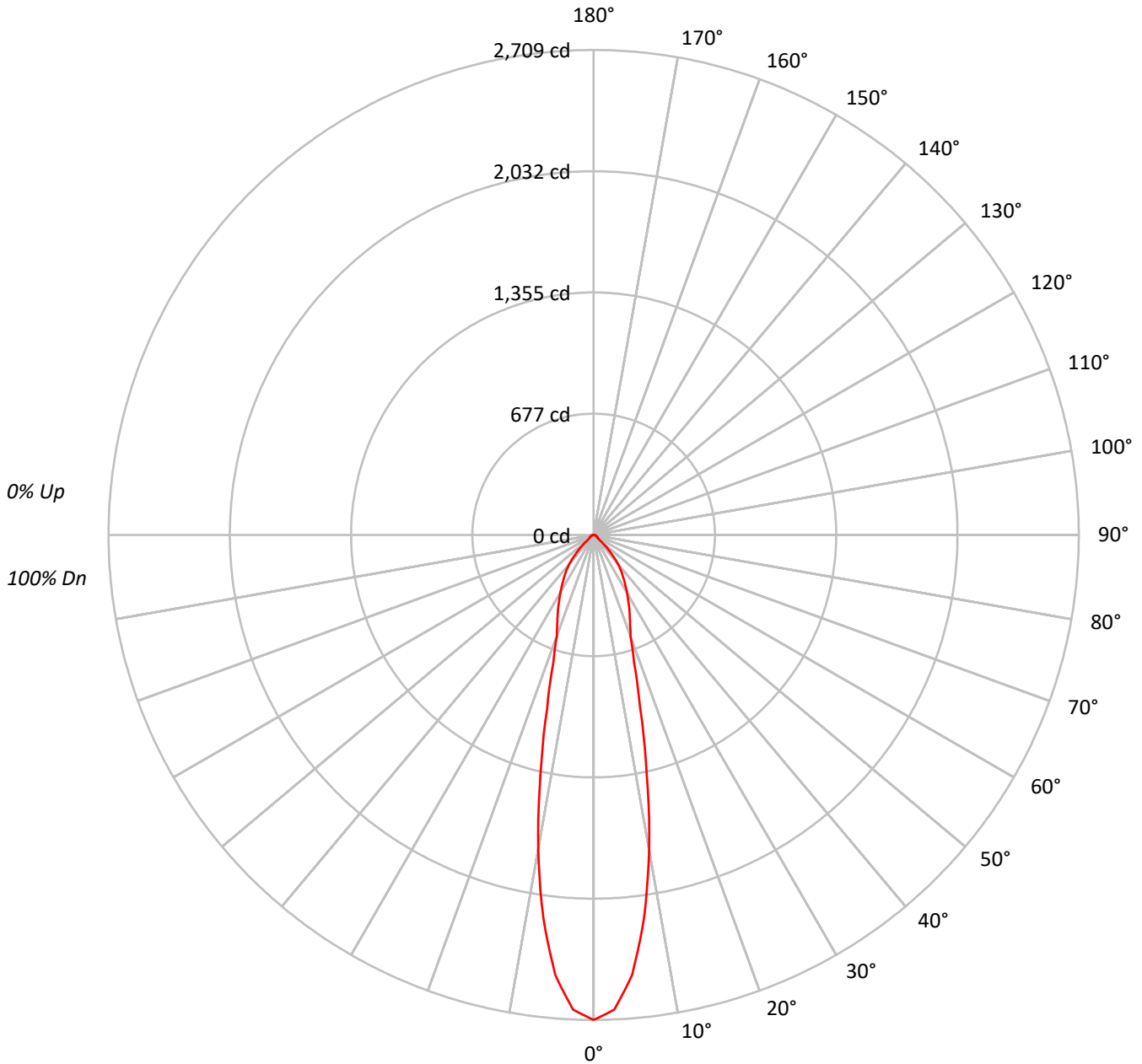
Lumens per Lamp: N/A
Luminaire Lumens: 1048.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			100																
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86																
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			81																
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75			75																
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71																
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67																
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63			63																
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60																
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57			57																
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			54																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213851
5°	195396
10°	143131
15°	82118
20°	50648
25°	41225
30°	33891
35°	27600
40°	21744
45°	13352
50°	4937
55°	3730
60°	3489
65°	3194
70°	3254
75°	3386
80°	3182
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	20.3
10°-20°	288.7	27.5
20°-30°	217.9	20.8
30°-40°	179.4	17.1
40°-50°	91.4	8.7
50°-60°	25.5	2.4
60°-70°	17.4	1.7
70°-80°	11.3	1.1
80°-90°	3.7	0.4
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°	719.7	68.6
0°-40°	899.1	85.8
0°-60°	1016.0	96.9
0°-90°	1048.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2709	
5°	2466	213
15°	1005	289
25°	473	218
35°	286	179
45°	120	91
55°	27	26
65°	17	17
75°	11	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2709.0
2.5°	2653.7
5°	2465.8
7.5°	2157.3
10°	1785.6
12.5°	1372.6
15°	1004.8
17.5°	748.6
20°	602.9
22.5°	528.5
25°	473.3
27.5°	420.0
30°	371.8
32.5°	326.6
35°	286.4
37.5°	250.2
40°	211.0
42.5°	162.8
45°	119.6
47.5°	73.4
50°	40.2
52.5°	31.1
55°	27.1
57.5°	25.1
60°	22.1
62.5°	20.1
65°	17.1
67.5°	15.1
70°	14.1
72.5°	12.1
75°	11.1
77.5°	9.0
80°	7.0
82.5°	5.0
85°	4.0
87.5°	1.0
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)