

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: P640383

Luminaire Tested: ML5609LSNFL25D2W1E - 693WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 693WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

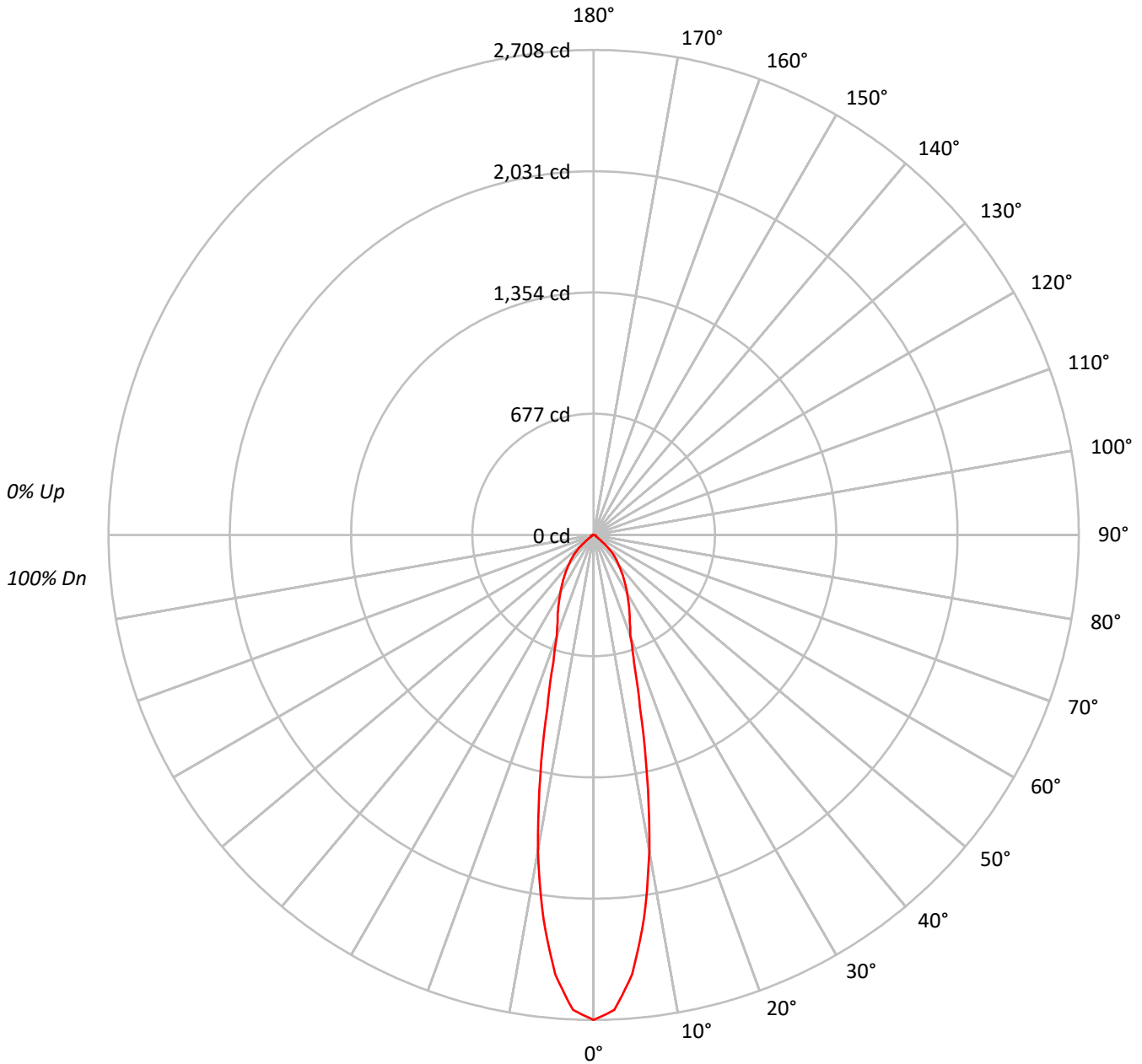
Lumens per Lamp: N/A
Luminaire Lumens: 1071.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	65	61	68	64	61	68	63	60	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148480
5°	135510
10°	99620
15°	56765
20°	34974
25°	28550
30°	23523
35°	19287
40°	15450
45°	12149
50°	6934
55°	2495
60°	2094
65°	1829
70°	1603
75°	1694
80°	1894
85°	1887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	19.9
10°-20°	288.4	26.9
20°-30°	217.3	20.3
30°-40°	180.3	16.8
40°-50°	116.2	10.8
50°-60°	30.8	2.9
60°-70°	13.8	1.3
70°-80°	8.4	0.8
80°-90°	3.0	0.3
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°	718.8	67.1
0°-40°	899.1	83.9
0°-60°	1046.2	97.6
0°-90°	1071.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2708	
5°	2462	213
15°	1000	288
25°	472	217
35°	288	180
45°	157	116
55°	26	31
65°	14	14
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2708.5
2.5°	2655.3
5°	2462.5
7.5°	2156.2
10°	1789.6
12.5°	1374.8
15°	1000.2
17.5°	748.2
20°	599.5
22.5°	526.2
25°	472.0
27.5°	419.8
30°	371.6
32.5°	328.4
35°	288.2
37.5°	250.1
40°	215.9
42.5°	185.8
45°	156.7
47.5°	116.5
50°	81.3
52.5°	42.2
55°	26.1
57.5°	21.1
60°	19.1
62.5°	16.1
65°	14.1
67.5°	11.0
70°	10.0
72.5°	9.0
75°	8.0
77.5°	7.0
80°	6.0
82.5°	4.0
85°	3.0
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)