

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: P640375

Luminaire Tested: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1074.4 lumens
Efficiency: N/A
Efficacy: 91.1 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

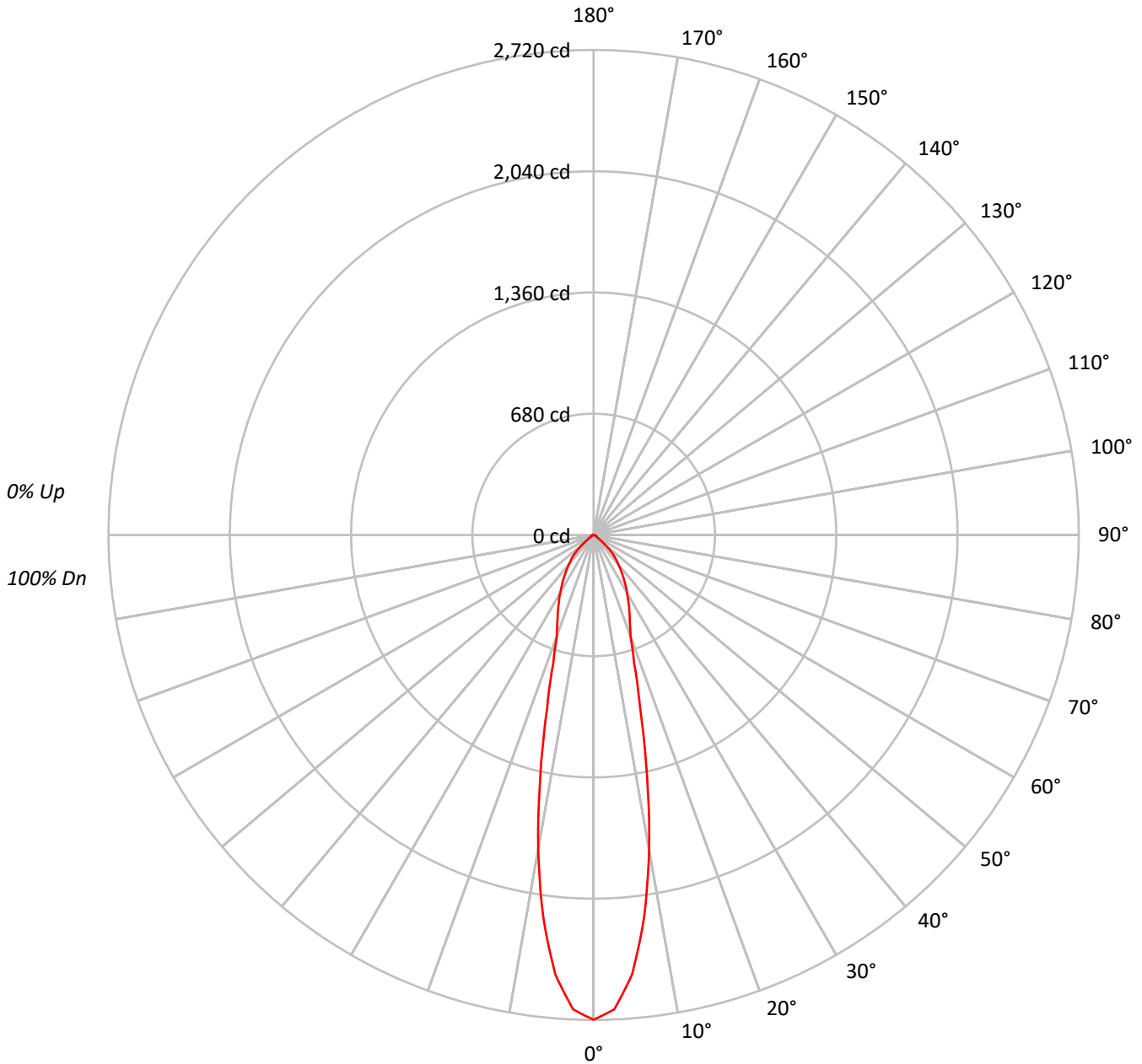
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P640375

CATALOG NUMBER: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P640375

CATALOG NUMBER: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K

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	113	111	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	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149089
5°	136072
10°	99809
15°	57202
20°	35260
25°	28665
30°	23706
35°	19347
40°	15515
45°	12063
50°	6678
55°	2590
60°	2094
65°	1829
70°	1603
75°	1694
80°	1578
85°	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12063 cd/sqm



TEST NUMBER: P640375

CATALOG NUMBER: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	19.9
10°-20°	289.9	27.0
20°-30°	218.6	20.3
30°-40°	181.2	16.9
40°-50°	115.5	10.8
50°-60°	30.8	2.9
60°-70°	14.3	1.3
70°-80°	8.0	0.7
80°-90°	2.3	0.2
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°	722.3	67.2
0°-40°	903.5	84.1
0°-60°	1049.8	97.7
0°-90°	1074.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2720	
5°	2473	214
15°	1008	290
25°	474	219
35°	289	181
45°	156	116
55°	27	31
65°	14	14
75°	8	8
85°	2	2
90°	0	



TEST NUMBER: P640375

CATALOG NUMBER: ML5609LSNFL25D2W1E - 692W - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2719.6
2.5°	2663.4
5°	2472.7
7.5°	2165.5
10°	1793.0
12.5°	1379.4
15°	1007.9
17.5°	751.9
20°	604.4
22.5°	530.1
25°	473.9
27.5°	421.7
30°	374.5
32.5°	330.3
35°	289.1
37.5°	251.0
40°	216.8
42.5°	185.7
45°	155.6
47.5°	115.5
50°	78.3
52.5°	41.2
55°	27.1
57.5°	22.1
60°	19.1
62.5°	17.1
65°	14.1
67.5°	12.0
70°	10.0
72.5°	9.0
75°	8.0
77.5°	6.0
80°	5.0
82.5°	3.0
85°	2.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)