

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: P640376

Luminaire Tested: ML5609LSNFL25D2W1E - 692W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640376
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

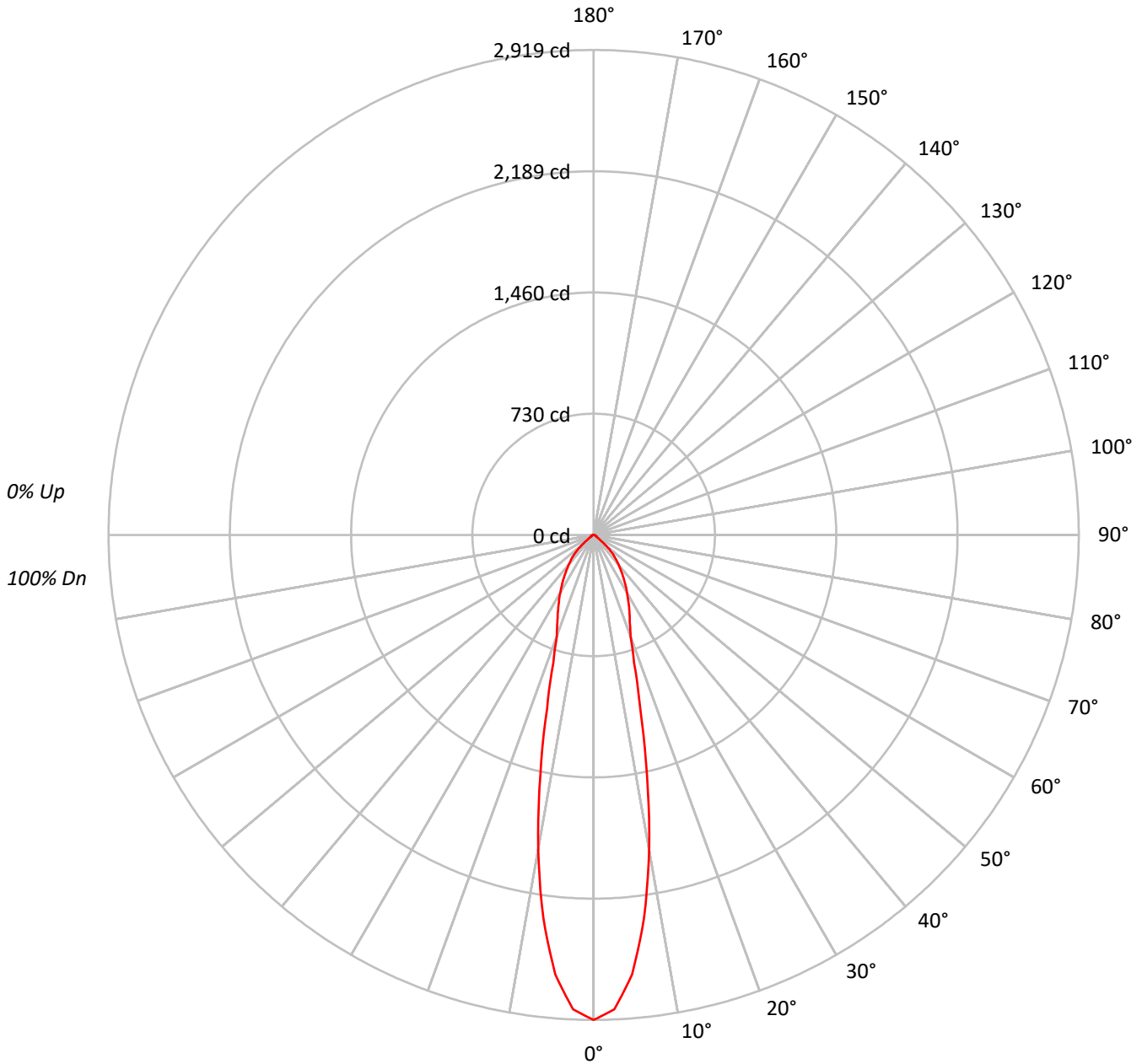
Lumens per Lamp: N/A
Luminaire Lumens: 1153.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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°	160026
5°	146048
10°	107129
15°	61402
20°	37844
25°	30764
30°	25441
35°	20766
40°	16660
45°	12947
50°	7172
55°	2781
60°	2248
65°	1959
70°	1731
75°	1822
80°	1705
85°	1384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	19.9
10°-20°	311.1	27.0
20°-30°	234.6	20.3
30°-40°	194.5	16.9
40°-50°	124.0	10.8
50°-60°	33.0	2.9
60°-70°	15.3	1.3
70°-80°	8.7	0.8
80°-90°	2.5	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°	775.3	67.2
0°-40°	969.8	84.1
0°-60°	1126.8	97.7
0°-90°	1153.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2919	
5°	2654	230
15°	1082	311
25°	509	235
35°	310	194
45°	167	124
55°	29	33
65°	15	15
75°	9	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2919.1
2.5°	2858.8
5°	2654.0
7.5°	2324.3
10°	1924.5
12.5°	1480.6
15°	1081.9
17.5°	807.1
20°	648.7
22.5°	569.0
25°	508.6
27.5°	452.6
30°	401.9
32.5°	354.5
35°	310.3
37.5°	269.4
40°	232.8
42.5°	199.3
45°	167.0
47.5°	123.9
50°	84.1
52.5°	44.2
55°	29.1
57.5°	23.7
60°	20.5
62.5°	18.3
65°	15.1
67.5°	12.9
70°	10.8
72.5°	9.7
75°	8.6
77.5°	6.5
80°	5.4
82.5°	3.2
85°	2.2
87.5°	1.1
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)