

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: P640413

Luminaire Tested: ML5609LSVWFL75D2W1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 596WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1099.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

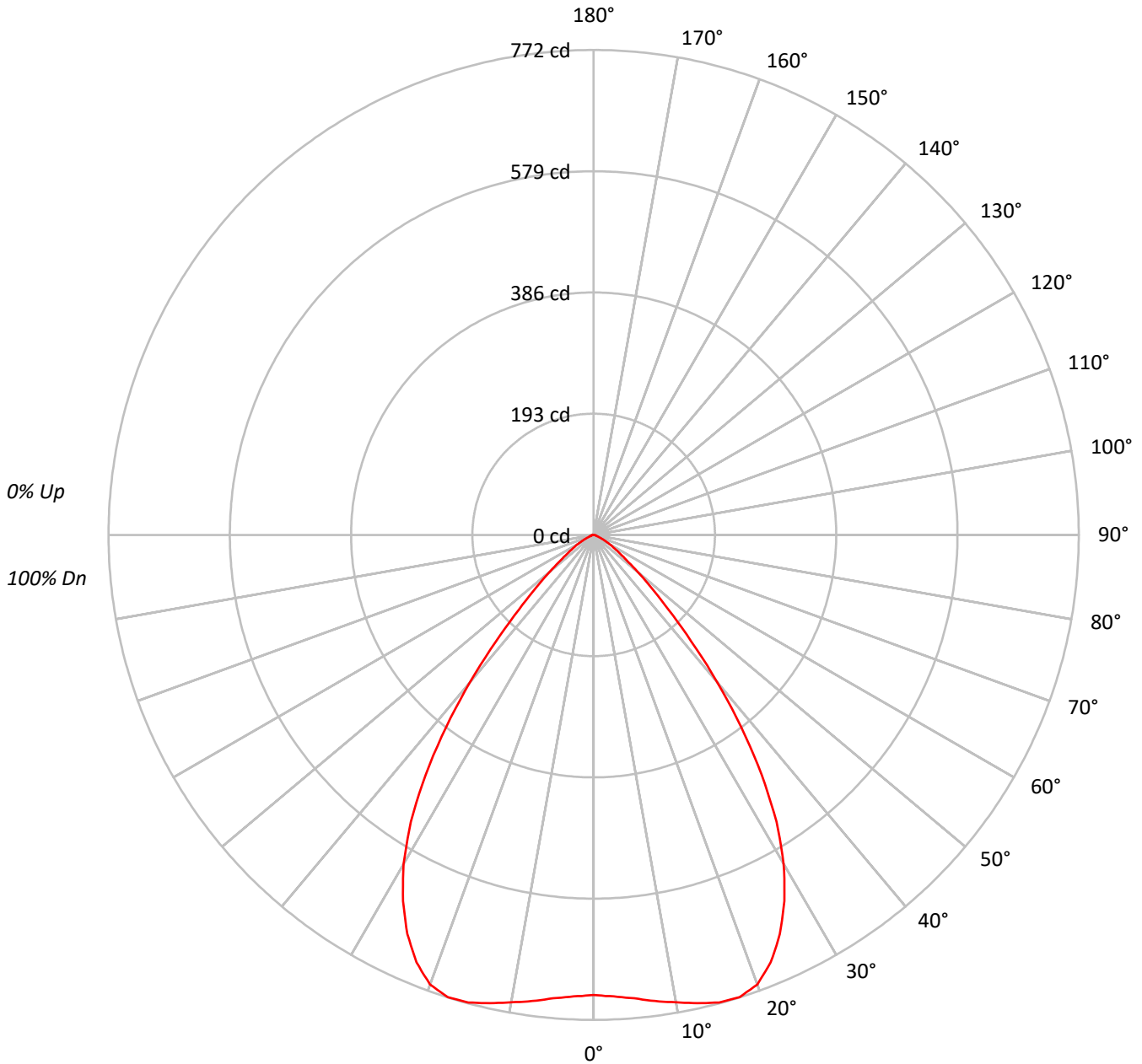
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83															
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76															
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69				69															
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				58															
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53				53															
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49				49															
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57816
5°	58671
10°	60560
15°	62970
20°	63971
25°	61076
30°	55129
35°	44918
40°	31471
45°	18733
50°	11102
55°	6771
60°	4594
65°	2634
70°	1385
75°	1220
80°	1364
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18733 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	6.5
10°-20°	217.3	19.8
20°-30°	319.3	29.0
30°-40°	286.6	26.1
40°-50°	137.0	12.5
50°-60°	47.1	4.3
60°-70°	15.2	1.4
70°-80°	4.4	0.4
80°-90°	1.5	0.1
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°	607.8	55.3
0°-40°	894.4	81.3
0°-60°	1078.5	98.1
0°-90°	1099.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	732	
5°	740	71
15°	770	217
25°	701	319
35°	466	287
45°	168	137
55°	49	47
65°	14	15
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	732.4
2.5°	735.4
5°	740.4
7.5°	748.4
10°	755.5
12.5°	763.5
15°	770.5
17.5°	771.5
20°	761.5
22.5°	736.4
25°	701.2
27.5°	657.0
30°	604.8
32.5°	541.5
35°	466.1
37.5°	385.8
40°	305.4
42.5°	230.1
45°	167.8
47.5°	123.6
50°	90.4
52.5°	65.3
55°	49.2
57.5°	38.2
60°	29.1
62.5°	21.1
65°	14.1
67.5°	9.0
70°	6.0
72.5°	5.0
75°	4.0
77.5°	3.0
80°	3.0
82.5°	2.0
85°	1.0
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)