

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: P640505

Luminaire Tested: ML5609LSWFL55D2W1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSWFL55D2W1E - 596WB - 900LM - 2700K
Description: ML56 RR, 55D 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: 1154.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

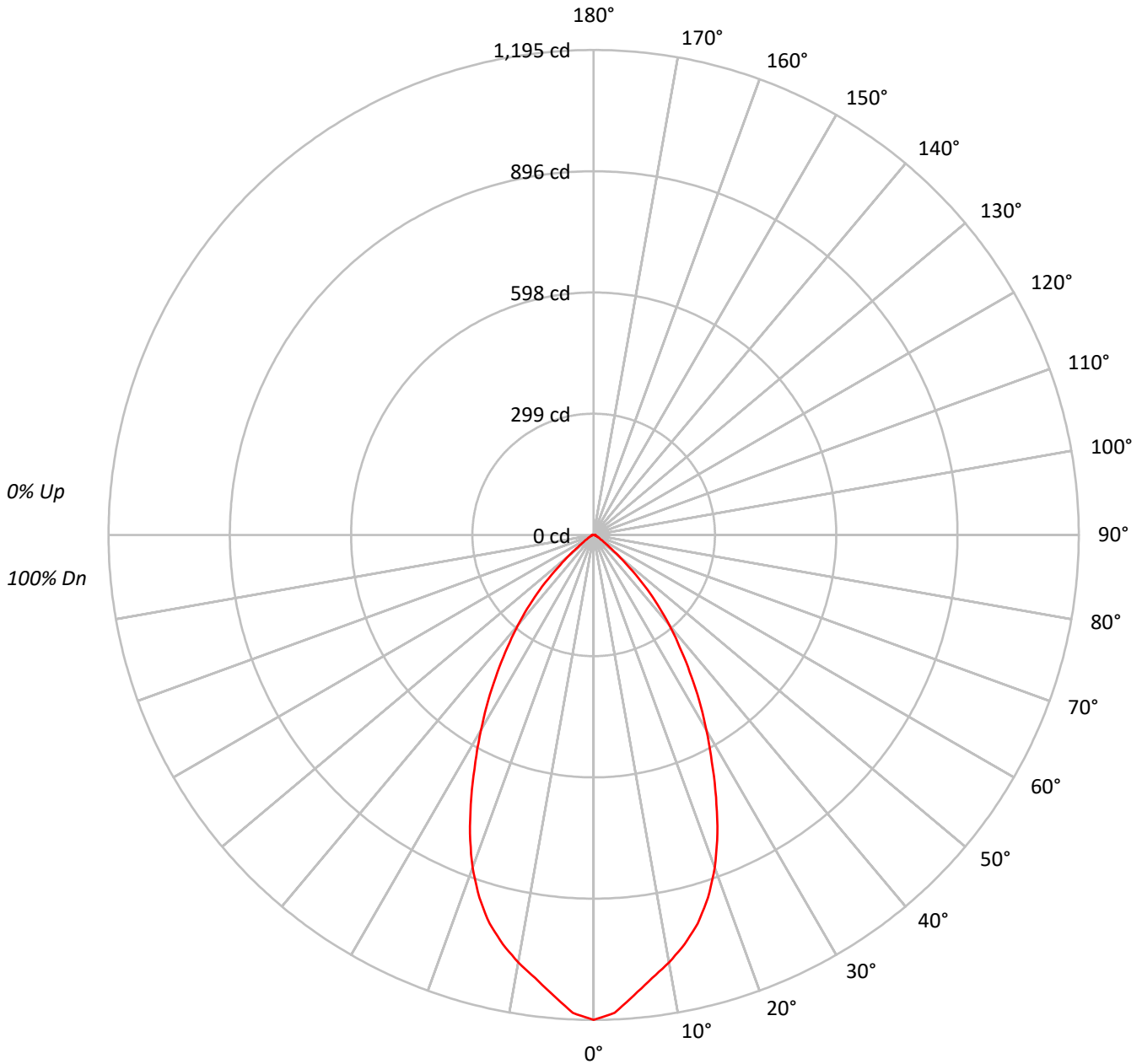
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																											
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																											
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94334
5°	90233
10°	85722
15°	80998
20°	73305
25°	62103
30°	50617
35°	39772
40°	29905
45°	19950
50°	9616
55°	4280
60°	2700
65°	1868
70°	1385
75°	915
80°	1818
85°	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19950 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	9.2
10°-20°	275.9	23.9
20°-30°	325.9	28.2
30°-40°	258.5	22.4
40°-50°	136.2	11.8
50°-60°	33.2	2.9
60°-70°	10.5	0.9
70°-80°	4.8	0.4
80°-90°	3.3	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°	708.3	61.3
0°-40°	966.8	83.7
0°-60°	1136.2	98.4
0°-90°	1154.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1195	
5°	1139	107
15°	991	276
25°	713	326
35°	413	259
45°	179	136
55°	31	33
65°	10	11
75°	3	5
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1195.0
2.5°	1178.9
5°	1138.7
7.5°	1101.6
10°	1069.4
12.5°	1033.3
15°	991.1
17.5°	936.9
20°	872.6
22.5°	796.3
25°	713.0
27.5°	630.6
30°	555.3
32.5°	483.0
35°	412.7
37.5°	348.4
40°	290.2
42.5°	233.0
45°	178.7
47.5°	119.5
50°	78.3
52.5°	49.2
55°	31.1
57.5°	22.1
60°	17.1
62.5°	13.1
65°	10.0
67.5°	8.0
70°	6.0
72.5°	5.0
75°	3.0
77.5°	5.0
80°	4.0
82.5°	4.0
85°	3.0
87.5°	3.0
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)