

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: P640506

Luminaire Tested: ML5609LSWFL55D2W1E - 596WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640506
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 - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1239.5 lumens
Efficiency: N/A
Efficacy: 105.0 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

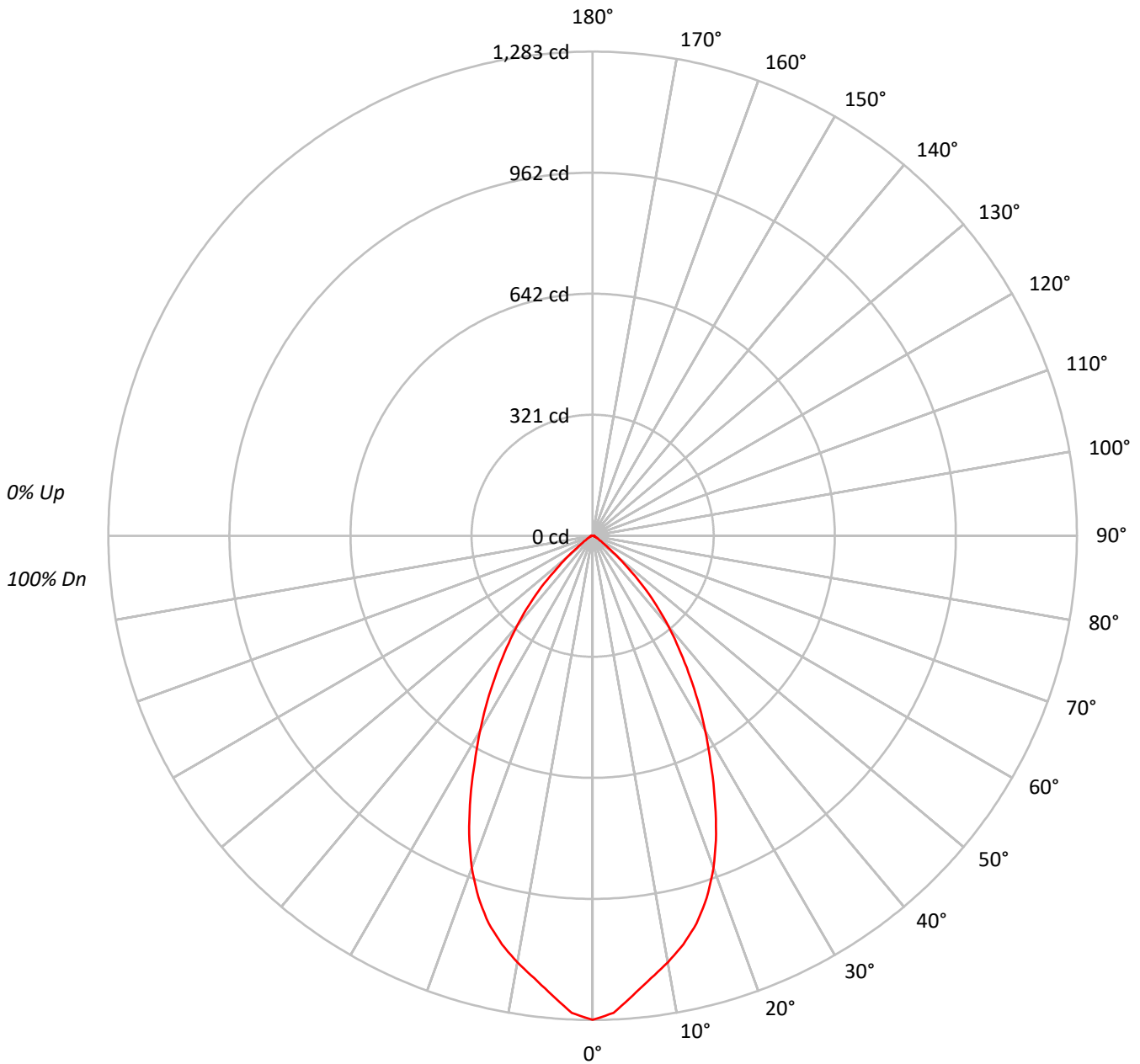
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	57	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	53	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49	49	49	49
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101250
5°	96858
10°	92014
15°	86940
20°	78681
25°	66659
30°	54327
35°	42691
40°	32100
45°	21424
50°	10328
55°	4597
60°	2889
65°	2017
70°	1500
75°	976
80°	1955
85°	2898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	9.2
10°-20°	296.1	23.9
20°-30°	349.8	28.2
30°-40°	277.5	22.4
40°-50°	146.2	11.8
50°-60°	35.6	2.9
60°-70°	11.3	0.9
70°-80°	5.1	0.4
80°-90°	3.5	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°	760.2	61.3
0°-40°	1037.7	83.7
0°-60°	1219.6	98.4
0°-90°	1239.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1283	
5°	1222	114
15°	1064	296
25°	765	350
35°	443	277
45°	192	146
55°	33	36
65°	11	11
75°	3	5
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1282.6
2.5°	1265.4
5°	1222.3
7.5°	1182.4
10°	1147.9
12.5°	1109.1
15°	1063.8
17.5°	1005.6
20°	936.6
22.5°	854.7
25°	765.3
27.5°	676.9
30°	596.0
32.5°	518.4
35°	443.0
37.5°	374.0
40°	311.5
42.5°	250.1
45°	191.9
47.5°	128.3
50°	84.1
52.5°	52.8
55°	33.4
57.5°	23.7
60°	18.3
62.5°	14.0
65°	10.8
67.5°	8.6
70°	6.5
72.5°	5.4
75°	3.2
77.5°	5.4
80°	4.3
82.5°	4.3
85°	3.2
87.5°	3.2
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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