

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: P641926

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 959.1 lumens
Efficiency: N/A
Efficacy: 93.1 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

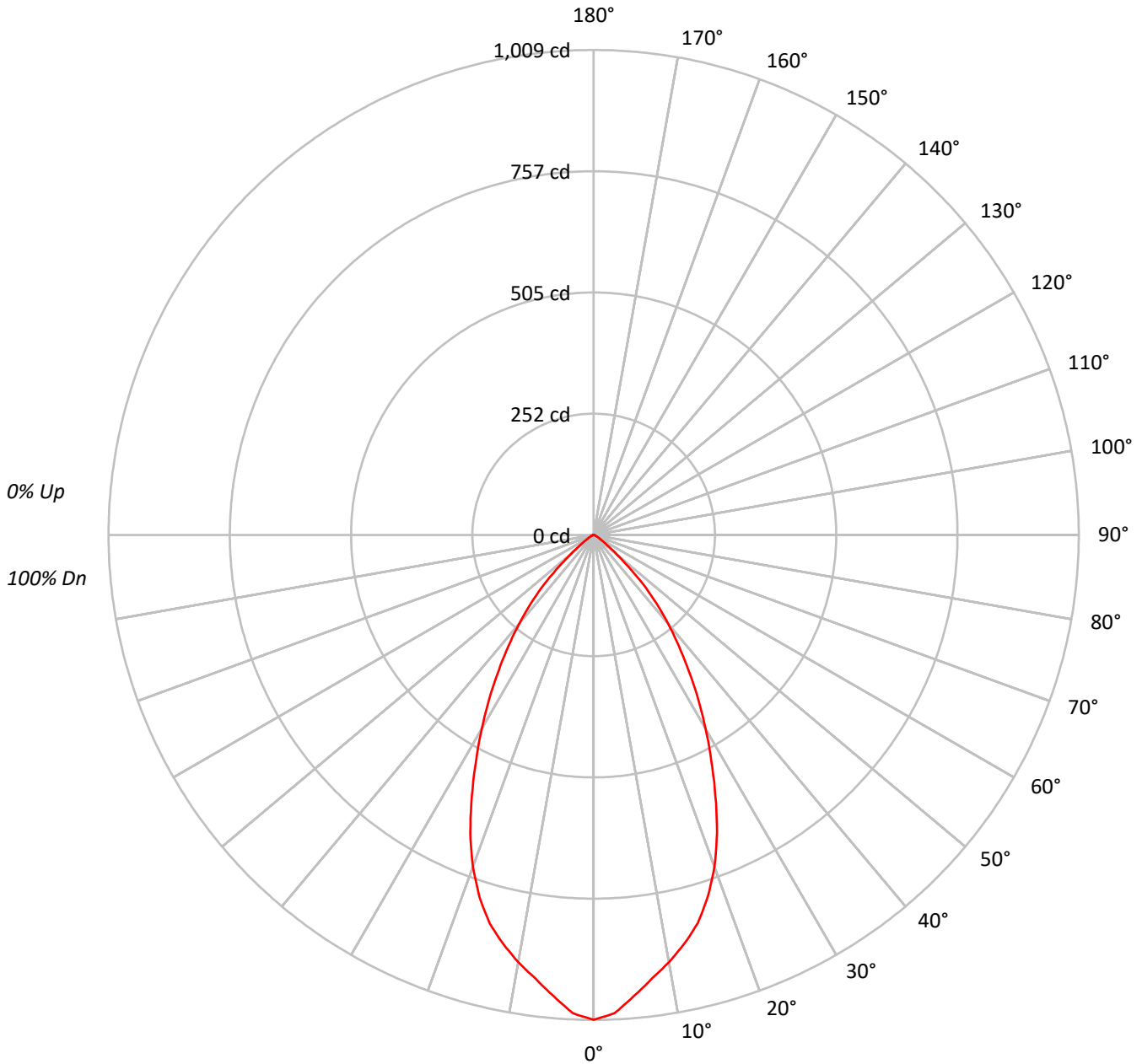
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78				78															
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67				67															
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62				62															
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57				57															
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50				50															
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79636
5°	76303
10°	72351
15°	68347
20°	61686
25°	52191
30°	42450
35°	33170
40°	24784
45°	16322
50°	7614
55°	3152
60°	1879
65°	1102
70°	785
75°	763
80°	773
85°	725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16322 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	9.4
10°-20°	232.5	24.2
20°-30°	273.9	28.6
30°-40°	215.8	22.5
40°-50°	111.8	11.7
50°-60°	24.8	2.6
60°-70°	6.5	0.7
70°-80°	2.7	0.3
80°-90°	1.1	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°	596.5	62.2
0°-40°	812.3	84.7
0°-60°	948.9	98.9
0°-90°	959.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1009	
5°	963	90
15°	836	233
25°	599	274
35°	344	216
45°	146	112
55°	23	25
65°	6	6
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1008.8
2.5°	996.1
5°	962.9
7.5°	930.6
10°	902.6
12.5°	871.1
15°	836.3
17.5°	789.5
20°	734.3
22.5°	670.6
25°	599.2
27.5°	529.5
30°	465.7
32.5°	403.7
35°	344.2
37.5°	290.7
40°	240.5
42.5°	192.9
45°	146.2
47.5°	96.9
50°	62.0
52.5°	37.4
55°	22.9
57.5°	15.3
60°	11.9
62.5°	8.5
65°	5.9
67.5°	4.2
70°	3.4
72.5°	2.5
75°	2.5
77.5°	2.5
80°	1.7
82.5°	1.7
85°	0.8
87.5°	0.8
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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