

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: P641386

Luminaire Tested: ML5612LSVWFL7597FS1E - 594WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594WB - 600LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 935.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

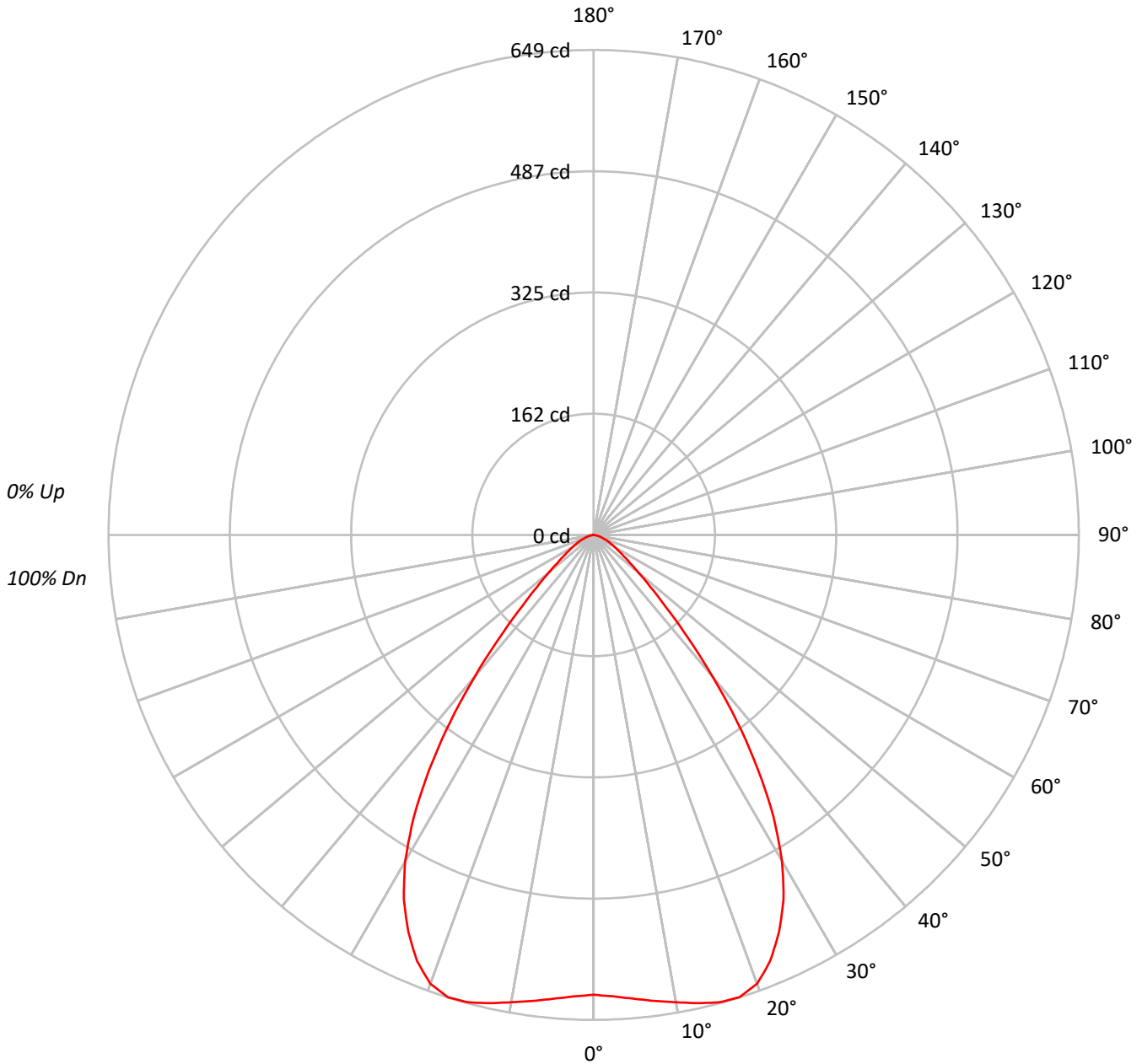
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44			44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48580
5°	49376
10°	50901
15°	52934
20°	53697
25°	51085
30°	45950
35°	36948
40°	25495
45°	15183
50°	9604
55°	6675
60°	5100
65°	4128
70°	3347
75°	2593
80°	1546
85°	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15183 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	6.4
10°-20°	182.6	19.5
20°-30°	267.2	28.6
30°-40°	235.9	25.2
40°-50°	111.9	12.0
50°-60°	45.2	4.8
60°-70°	22.6	2.4
70°-80°	9.1	1.0
80°-90°	1.2	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°	509.7	54.5
0°-40°	745.6	79.7
0°-60°	902.7	96.5
0°-90°	935.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	615	
5°	623	60
15°	648	183
25°	586	267
35°	383	236
45°	136	112
55°	48	45
65°	22	23
75°	8	9
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	615.4
2.5°	618.0
5°	623.1
7.5°	629.0
10°	635.0
12.5°	641.8
15°	647.7
17.5°	648.6
20°	639.2
22.5°	617.1
25°	586.5
27.5°	550.0
30°	504.1
32.5°	448.0
35°	383.4
37.5°	315.4
40°	247.4
42.5°	186.2
45°	136.0
47.5°	102.0
50°	78.2
52.5°	60.4
55°	48.5
57.5°	39.1
60°	32.3
62.5°	27.2
65°	22.1
67.5°	18.7
70°	14.5
72.5°	11.1
75°	8.5
77.5°	6.0
80°	3.4
82.5°	1.7
85°	0.9
87.5°	0.0
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)