

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: P643394

Luminaire Tested: ML5615LSVWFL9FS1E - 591WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 591WB - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

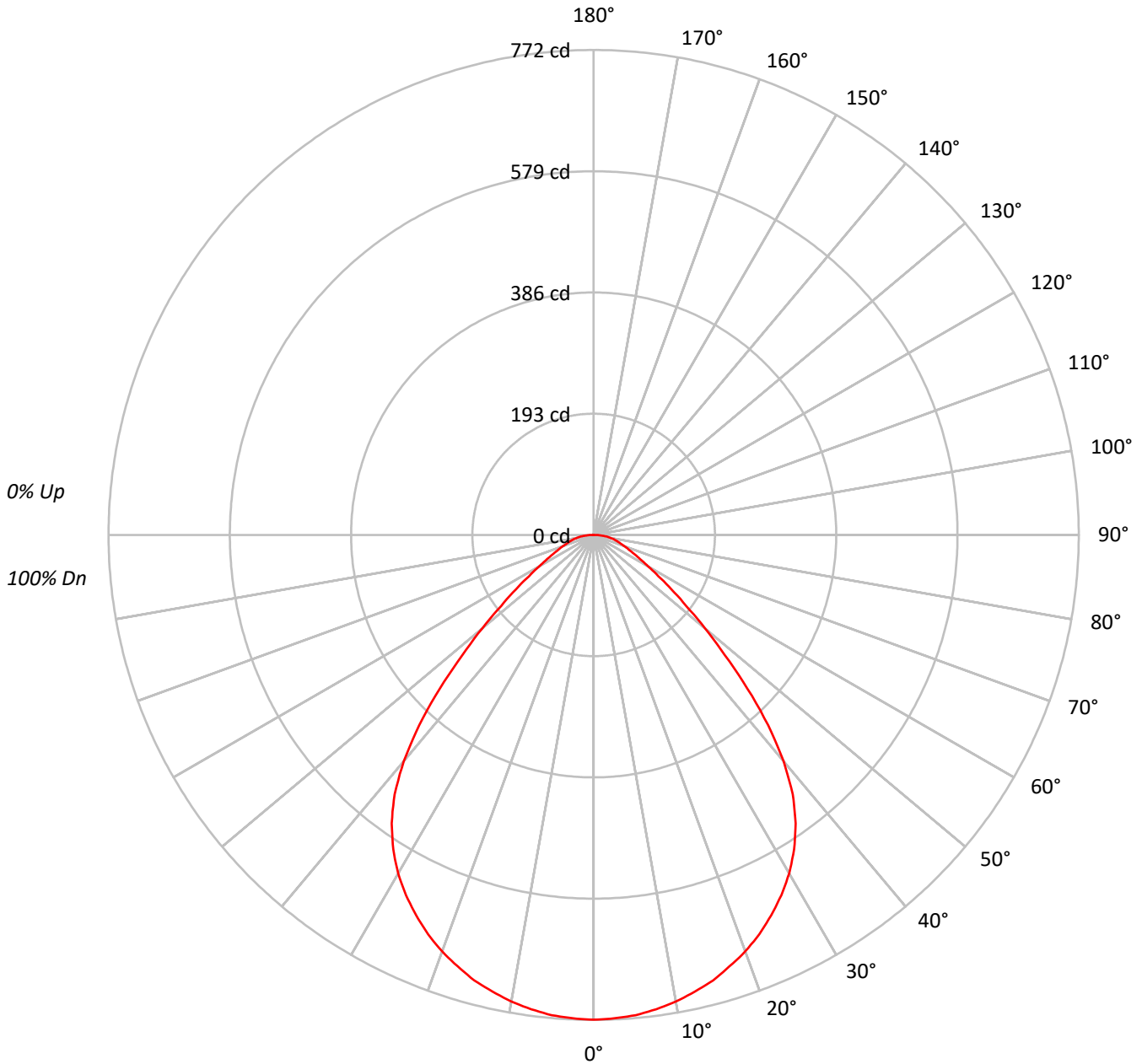
Lumens per Lamp: N/A
Luminaire Lumens: 1468.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60919
5°	60811
10°	60472
15°	60011
20°	59275
25°	58201
30°	56715
35°	54005
40°	48423
45°	38661
50°	28418
55°	20768
60°	15883
65°	13150
70°	11933
75°	11834
80°	12411
85°	13043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 38661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	5.0
10°-20°	206.8	14.1
20°-30°	307.5	20.9
30°-40°	346.8	23.6
40°-50°	266.7	18.2
50°-60°	138.9	9.5
60°-70°	71.7	4.9
70°-80°	41.1	2.8
80°-90°	15.5	1.1
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°	587.2	40.0
0°-40°	934.0	63.6
0°-60°	1339.7	91.3
0°-90°	1468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	772	
5°	767	73
15°	734	207
25°	668	307
35°	560	347
45°	346	267
55°	151	139
65°	70	72
75°	39	41
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	771.7
2.5°	770.2
5°	767.4
7.5°	761.6
10°	754.4
12.5°	744.4
15°	734.3
17.5°	720.0
20°	705.6
22.5°	688.3
25°	668.2
27.5°	646.7
30°	622.2
32.5°	593.5
35°	560.4
37.5°	520.2
40°	469.9
42.5°	411.0
45°	346.3
47.5°	283.1
50°	231.4
52.5°	185.4
55°	150.9
57.5°	122.1
60°	100.6
62.5°	83.3
65°	70.4
67.5°	60.4
70°	51.7
72.5°	44.5
75°	38.8
77.5°	33.1
80°	27.3
82.5°	21.6
85°	14.4
87.5°	7.2
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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(END OF REPORT)