

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: P643432

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592SC - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

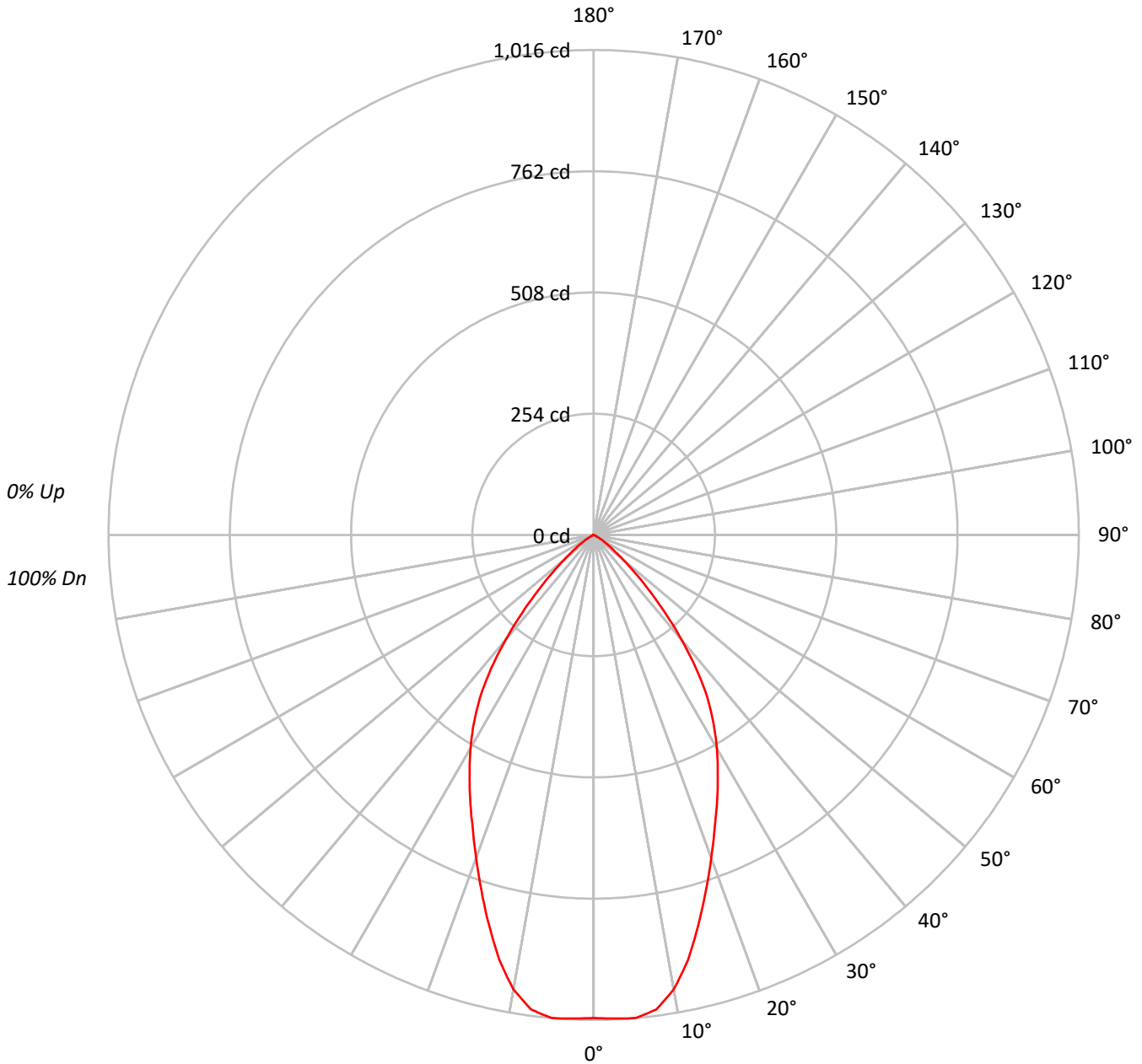
Lumens per Lamp: N/A
Luminaire Lumens: 1039.9 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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				
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78				
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71				
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66				
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61				
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56				
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52				
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48				
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79888
5°	80518
10°	77497
15°	69173
20°	60477
25°	53298
30°	47062
35°	39945
40°	29462
45°	18253
50°	9849
55°	4955
60°	2273
65°	953
70°	485
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	9.2
10°-20°	236.1	22.7
20°-30°	281.3	27.1
30°-40°	254.0	24.4
40°-50°	130.6	12.6
50°-60°	35.5	3.4
60°-70°	5.8	0.6
70°-80°	1.1	0.1
80°-90°	0.0	0.0
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°	612.9	58.9
0°-40°	866.9	83.4
0°-60°	1033.0	99.3
0°-90°	1039.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	1016	95
15°	846	236
25°	612	281
35°	414	254
45°	164	131
55°	36	35
65°	5	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1012.0
2.5°	1014.1
5°	1016.1
7.5°	1002.8
10°	966.8
12.5°	912.3
15°	846.4
17.5°	781.6
20°	719.9
22.5°	662.3
25°	611.9
27.5°	562.6
30°	516.3
32.5°	466.9
35°	414.5
37.5°	352.8
40°	285.9
42.5°	222.2
45°	163.5
47.5°	117.2
50°	80.2
52.5°	53.5
55°	36.0
57.5°	23.7
60°	14.4
62.5°	8.2
65°	5.1
67.5°	2.1
70°	2.1
72.5°	1.0
75°	1.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
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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