

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: P643604

Luminaire Tested: ML5615LSVWFL9FS1E - 692SC - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 692SC - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

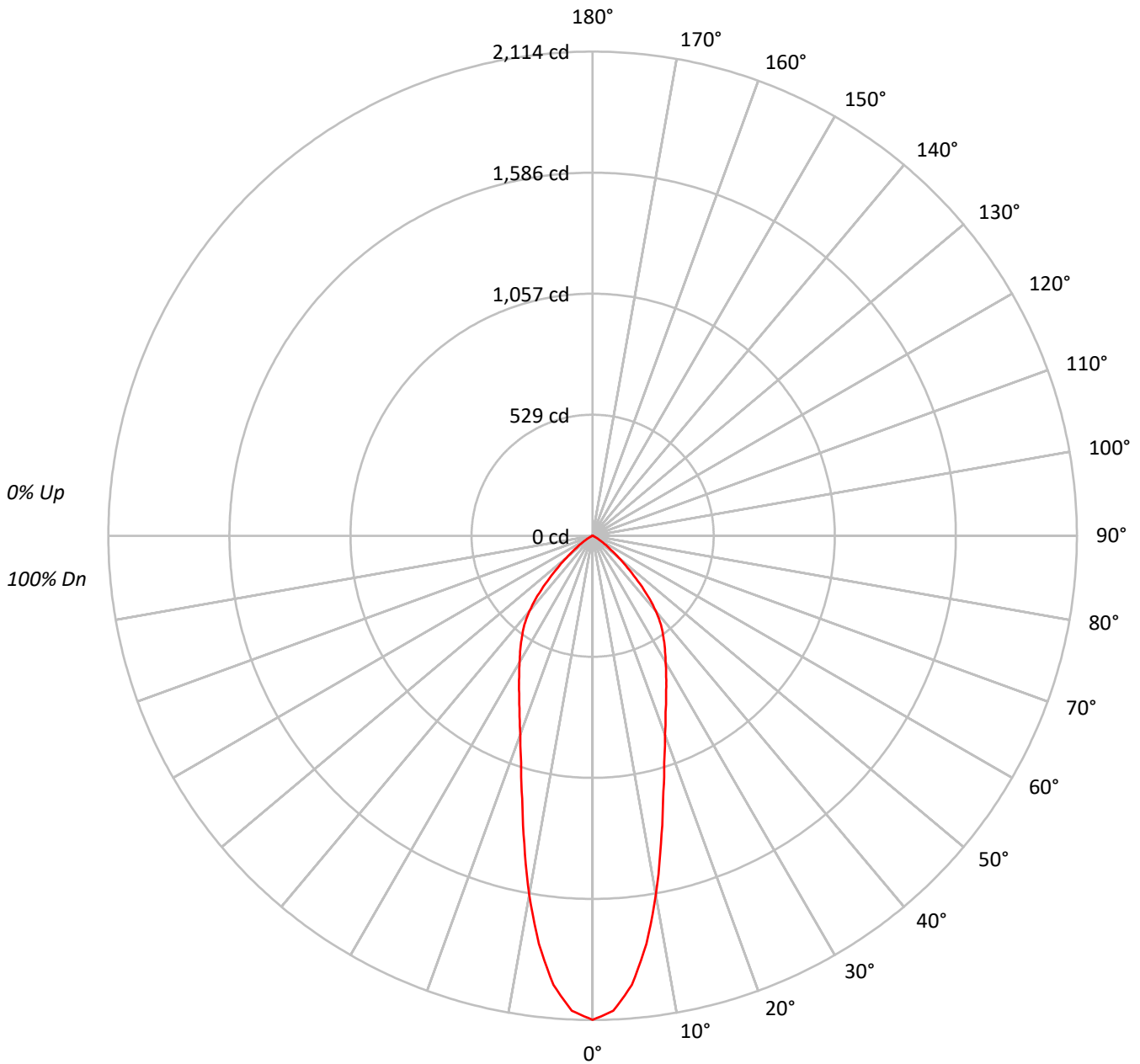
Lumens per Lamp: N/A
Luminaire Lumens: 1489.5 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71			71																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49			49																
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115868
5°	108315
10°	88581
15°	67367
20°	53806
25°	45868
30°	40348
35°	36011
40°	30686
45°	21638
50°	12639
55°	6604
60°	2993
65°	934
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	11.8
10°-20°	334.7	22.5
20°-30°	351.0	23.6
30°-40°	334.8	22.5
40°-50°	216.0	14.5
50°-60°	67.1	4.5
60°-70°	9.8	0.7
70°-80°	0.5	0.0
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°	861.3	57.8
0°-40°	1196.0	80.3
0°-60°	1479.2	99.3
0°-90°	1489.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2114	
5°	1968	176
15°	1187	335
25°	758	351
35°	538	335
45°	279	216
55°	69	67
65°	7	10
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2113.6
2.5°	2076.2
5°	1968.3
7.5°	1797.1
10°	1591.3
12.5°	1376.9
15°	1187.0
17.5°	1038.8
20°	922.3
22.5°	833.1
25°	758.3
27.5°	694.9
30°	637.4
32.5°	587.0
35°	538.1
37.5°	489.2
40°	428.8
42.5°	356.8
45°	279.1
47.5°	207.2
50°	148.2
52.5°	102.2
55°	69.1
57.5°	44.6
60°	27.3
62.5°	15.8
65°	7.2
67.5°	2.9
70°	1.4
72.5°	1.4
75°	0.0
77.5°	0.0
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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