

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: P643726

Luminaire Tested: ML5615LSVWFL9FS1E - 696WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 696WB - 1500LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

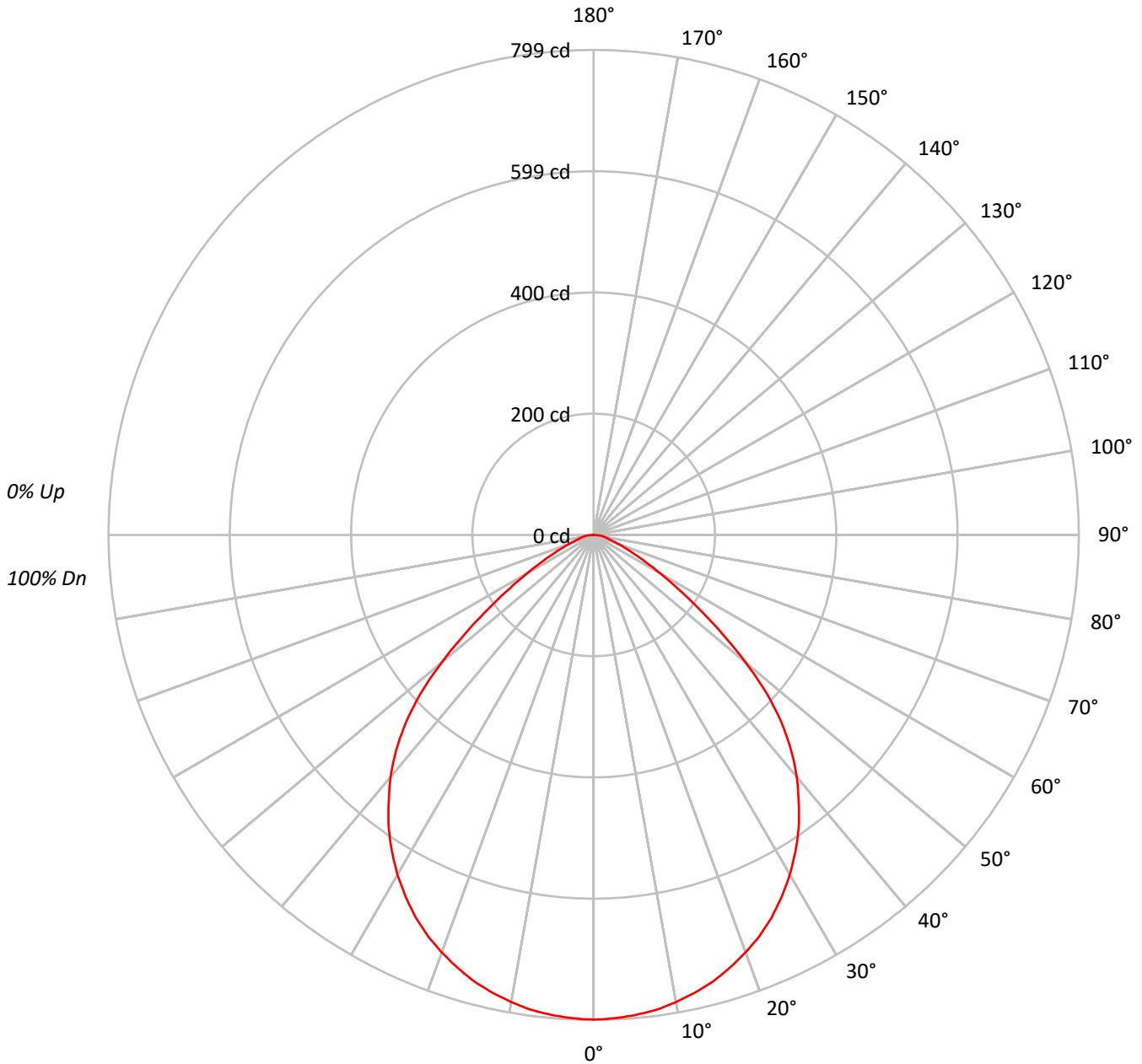
Lumens per Lamp: N/A
Luminaire Lumens: 1615.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	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	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	57	51	75	64	56	51	62	55	50		60	54	50		59	54	49	48
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41		51	45	41		50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43779
5°	43688
10°	43503
15°	43207
20°	42692
25°	42008
30°	40911
35°	39411
40°	37248
45°	33965
50°	27829
55°	20052
60°	13804
65°	9469
70°	6732
75°	5274
80°	5398
85°	5850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	4.7
10°-20°	214.5	13.3
20°-30°	319.3	19.8
30°-40°	366.8	22.7
40°-50°	332.9	20.6
50°-60°	192.2	11.9
60°-70°	76.2	4.7
70°-80°	28.7	1.8
80°-90°	9.5	0.6
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°	609.3	37.7
0°-40°	976.1	60.4
0°-60°	1501.2	92.9
0°-90°	1615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	794	75
15°	761	215
25°	694	319
35°	589	367
45°	438	333
55°	210	192
65°	73	76
75°	25	29
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	798.6
2.5°	797.1
5°	793.9
7.5°	789.3
10°	781.5
12.5°	772.2
15°	761.3
17.5°	747.3
20°	731.8
22.5°	714.7
25°	694.5
27.5°	671.2
30°	646.3
32.5°	618.4
35°	588.9
37.5°	554.7
40°	520.5
42.5°	481.7
45°	438.1
47.5°	386.9
50°	326.3
52.5°	265.7
55°	209.8
57.5°	163.1
60°	125.9
62.5°	96.3
65°	73.0
67.5°	55.9
70°	42.0
72.5°	32.6
75°	24.9
77.5°	21.8
80°	17.1
82.5°	14.0
85°	9.3
87.5°	3.1
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)