

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: P643456

Luminaire Tested: ML5615LSVWFL9FS1E - 593BB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593BB - 1500LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

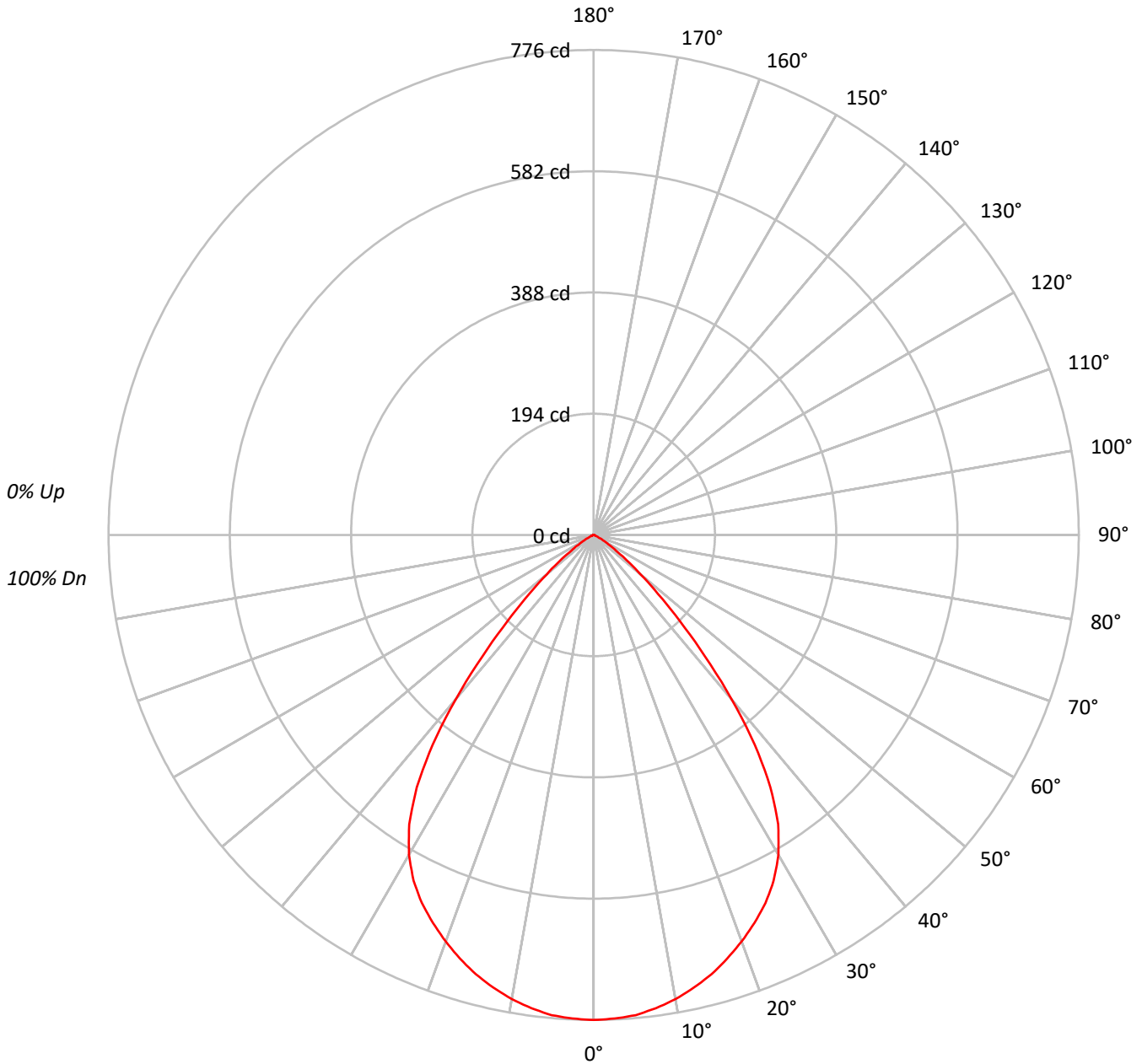
Lumens per Lamp: N/A
Luminaire Lumens: 1083.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				58															
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53				53															
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49				49															
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				45															
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42546
5°	42450
10°	41989
15°	41311
20°	40376
25°	39323
30°	37411
35°	32993
40°	24596
45°	15071
50°	8358
55°	4158
60°	1875
65°	610
70°	256
75°	339
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	6.7
10°-20°	204.9	18.9
20°-30°	298.0	27.5
30°-40°	300.4	27.7
40°-50°	155.8	14.4
50°-60°	43.3	4.0
60°-70°	6.5	0.6
70°-80°	1.0	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°	576.0	53.2
0°-40°	876.4	80.9
0°-60°	1075.5	99.3
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	776	
5°	771	73
15°	728	205
25°	650	298
35°	493	300
45°	194	156
55°	44	43
65°	5	6
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	776.1
2.5°	774.6
5°	771.4
7.5°	763.7
10°	754.3
12.5°	741.9
15°	727.9
17.5°	710.8
20°	692.1
22.5°	671.9
25°	650.1
27.5°	623.7
30°	591.0
32.5°	549.0
35°	493.0
37.5°	423.1
40°	343.7
42.5°	262.9
45°	194.4
47.5°	140.0
50°	98.0
52.5°	66.9
55°	43.5
57.5°	28.0
60°	17.1
62.5°	9.3
65°	4.7
67.5°	3.1
70°	1.6
72.5°	1.6
75°	1.6
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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