

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: P643158

Luminaire Tested: ML5615LSVWFL759FS1E - 593WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 593WB - 1500LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

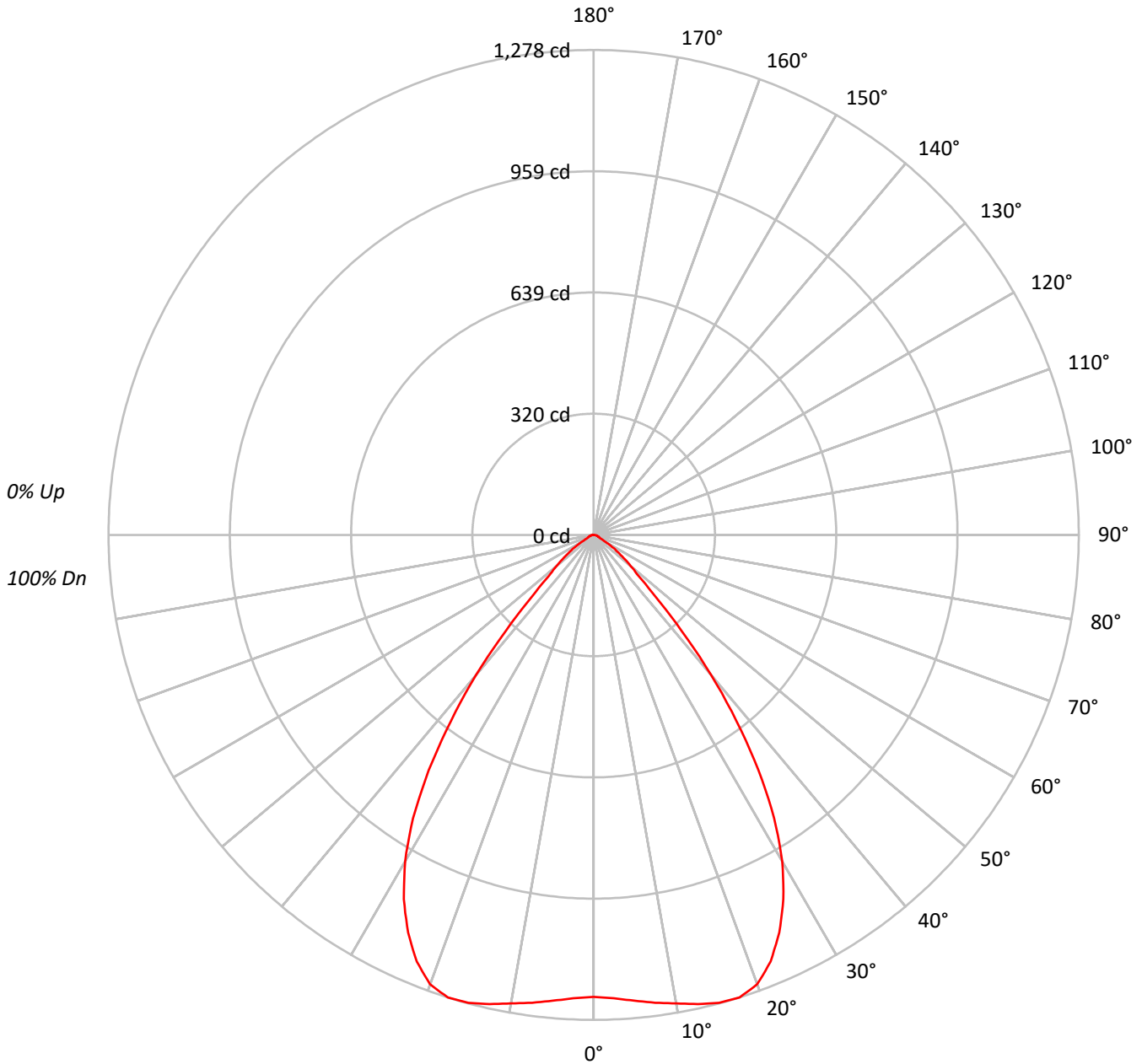
Lumens per Lamp: N/A
Luminaire Lumens: 1767.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46																			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96095
5°	97627
10°	100471
15°	104315
20°	105849
25°	100733
30°	90588
35°	72980
40°	49598
45°	25677
50°	15732
55°	10405
60°	5194
65°	3063
70°	3024
75°	3020
80°	3000
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	6.7
10°-20°	360.0	20.4
20°-30°	526.7	29.8
30°-40°	464.4	26.3
40°-50°	196.7	11.1
50°-60°	68.5	3.9
60°-70°	19.0	1.1
70°-80°	10.4	0.6
80°-90°	3.6	0.2
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°	1005.1	56.9
0°-40°	1469.5	83.1
0°-60°	1734.7	98.1
0°-90°	1767.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1217	
5°	1232	118
15°	1276	360
25°	1156	527
35°	757	464
45°	230	197
55°	76	68
65°	16	19
75°	10	10
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.3
2.5°	1222.2
5°	1232.0
7.5°	1243.5
10°	1253.4
12.5°	1266.5
15°	1276.4
17.5°	1278.0
20°	1260.0
22.5°	1217.3
25°	1156.5
27.5°	1082.6
30°	993.8
32.5°	885.4
35°	757.3
37.5°	617.7
40°	481.3
42.5°	341.7
45°	230.0
47.5°	159.3
50°	128.1
52.5°	98.6
55°	75.6
57.5°	54.2
60°	32.9
62.5°	23.0
65°	16.4
67.5°	14.8
70°	13.1
72.5°	11.5
75°	9.9
77.5°	8.2
80°	6.6
82.5°	4.9
85°	3.3
87.5°	1.6
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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