

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: P643163

Luminaire Tested: ML5615LSVWFL759FS1E - 593WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643163
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 - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

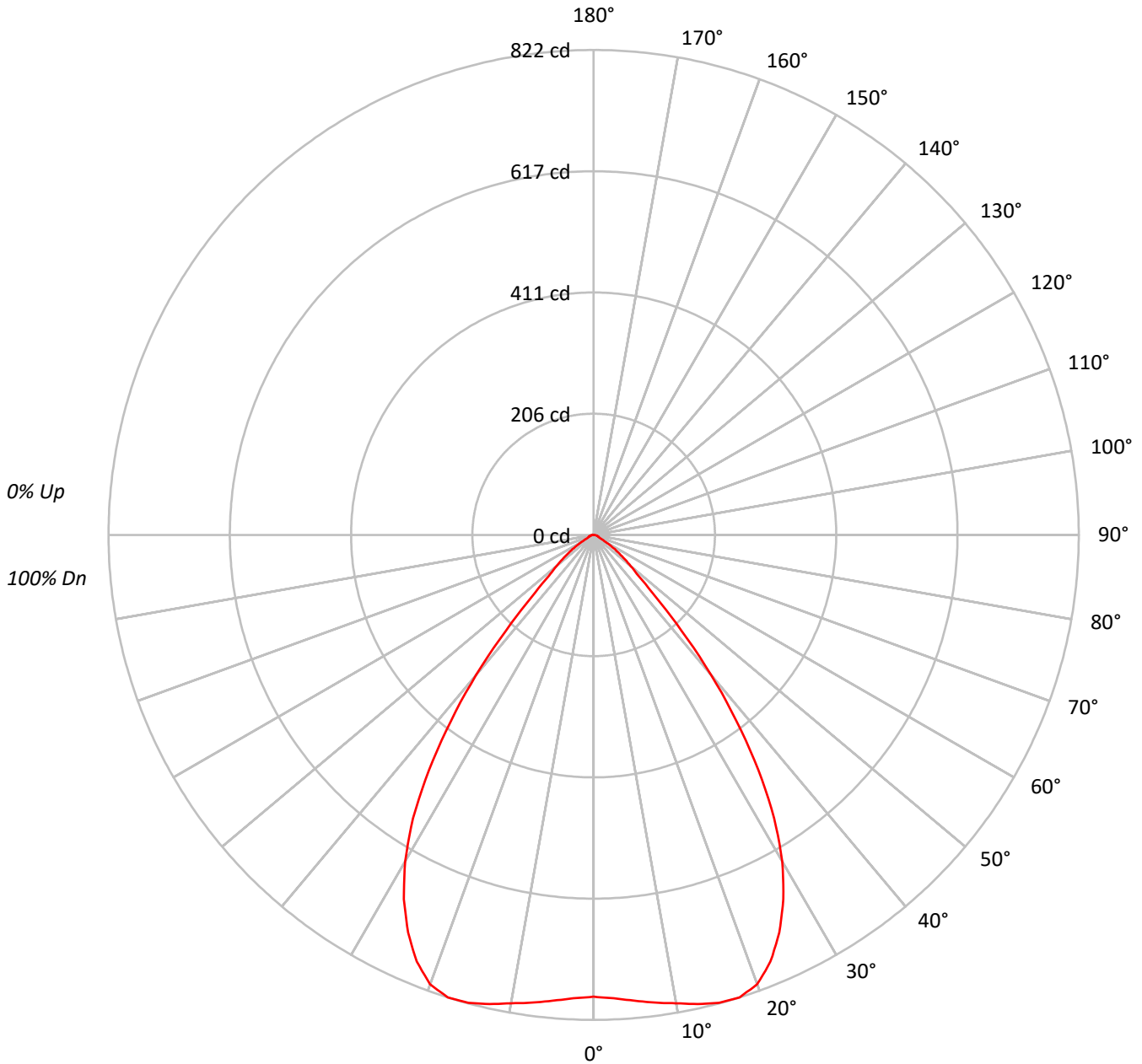
Lumens per Lamp: N/A
Luminaire Lumens: 1136.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): 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	107	105	103	103	101	99	100	98	96	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			59																
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54			54																
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50			50																
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46																
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61795
5°	62792
10°	64616
15°	67089
20°	68071
25°	64786
30°	58265
35°	46932
40°	31894
45°	16511
50°	10120
55°	6689
60°	3331
65°	1980
70°	1962
75°	1922
80°	1909
85°	1902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	6.7
10°-20°	231.5	20.4
20°-30°	338.8	29.8
30°-40°	298.7	26.3
40°-50°	126.5	11.1
50°-60°	44.0	3.9
60°-70°	12.3	1.1
70°-80°	6.7	0.6
80°-90°	2.3	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°	646.4	56.9
0°-40°	945.0	83.1
0°-60°	1115.6	98.1
0°-90°	1136.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	783	
5°	792	76
15°	821	232
25°	744	339
35°	487	299
45°	148	127
55°	49	44
65°	11	12
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	782.8
2.5°	786.0
5°	792.4
7.5°	799.7
10°	806.1
12.5°	814.5
15°	820.9
17.5°	821.9
20°	810.3
22.5°	782.8
25°	743.8
27.5°	696.2
30°	639.2
32.5°	569.4
35°	487.0
37.5°	397.2
40°	309.5
42.5°	219.7
45°	147.9
47.5°	102.5
50°	82.4
52.5°	63.4
55°	48.6
57.5°	34.9
60°	21.1
62.5°	14.8
65°	10.6
67.5°	9.5
70°	8.5
72.5°	7.4
75°	6.3
77.5°	5.3
80°	4.2
82.5°	3.2
85°	2.1
87.5°	1.1
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)