

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: P643093

Luminaire Tested: ML5615LSVWFL759FS1E - 592W - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 592W - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

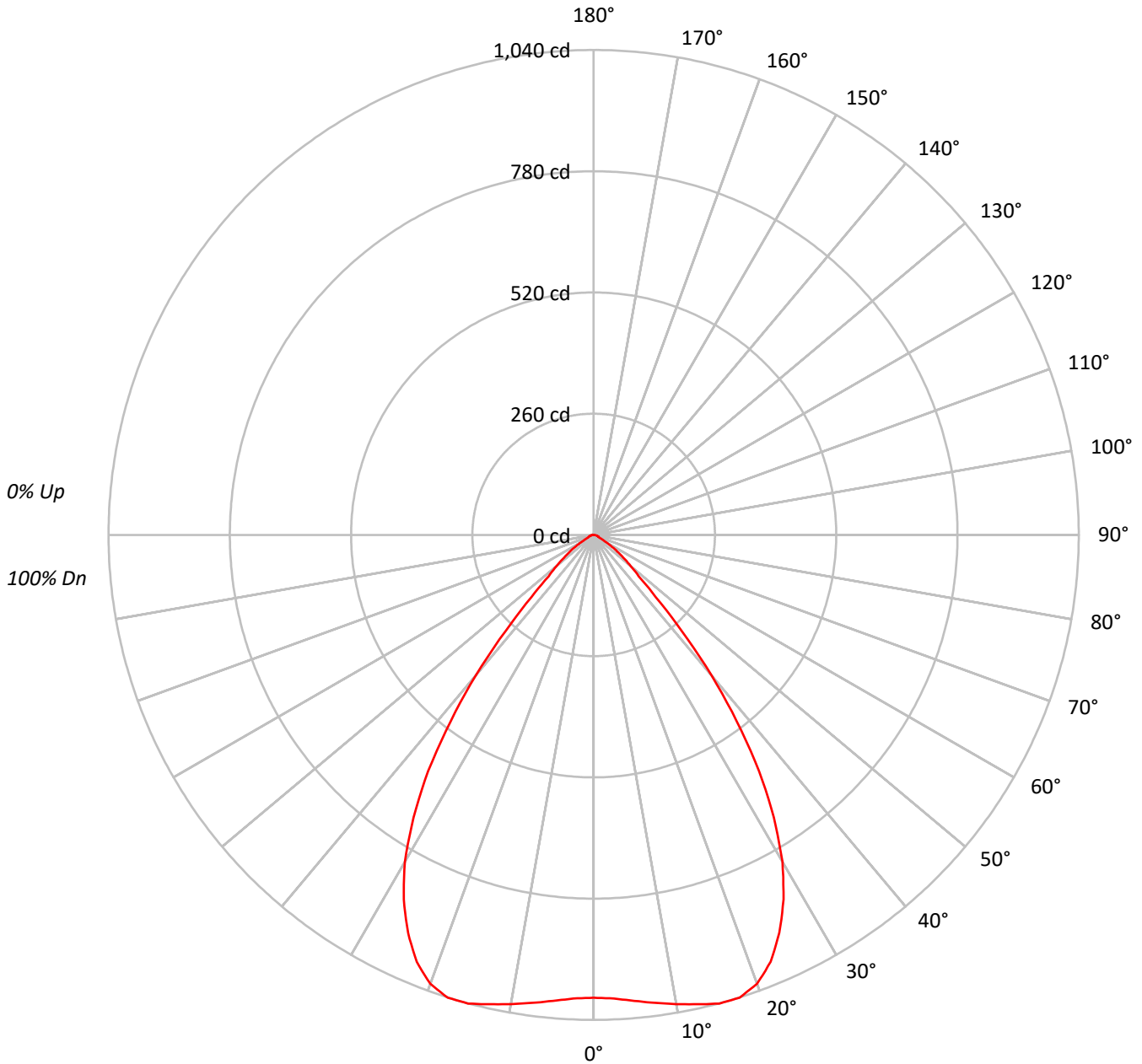
Lumens per Lamp: N/A
Luminaire Lumens: 1440.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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									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	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	87	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	58											58																	
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	59	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°	78333
5°	79480
10°	81898
15°	85027
20°	86057
25°	82015
30°	73770
35°	59595
40°	40457
45°	21022
50°	12797
55°	8450
60°	4421
65°	2503
70°	2470
75°	2440
80°	2409
85°	2446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	6.7
10°-20°	293.2	20.4
20°-30°	428.8	29.8
30°-40°	378.3	26.3
40°-50°	160.8	11.2
50°-60°	55.8	3.9
60°-70°	16.0	1.1
70°-80°	8.4	0.6
80°-90°	2.9	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°	818.3	56.8
0°-40°	1196.5	83.1
0°-60°	1413.2	98.1
0°-90°	1440.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	992	
5°	1003	96
15°	1040	293
25°	942	429
35°	618	378
45°	188	161
55°	61	56
65°	13	16
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	992.3
2.5°	995.0
5°	1003.0
7.5°	1012.3
10°	1021.7
12.5°	1031.0
15°	1040.4
17.5°	1040.4
20°	1024.4
22.5°	991.0
25°	941.6
27.5°	881.5
30°	809.3
32.5°	718.5
35°	618.4
37.5°	503.5
40°	392.6
42.5°	279.1
45°	188.3
47.5°	130.9
50°	104.2
52.5°	80.1
55°	61.4
57.5°	44.1
60°	28.0
62.5°	20.0
65°	13.4
67.5°	12.0
70°	10.7
72.5°	9.3
75°	8.0
77.5°	6.7
80°	5.3
82.5°	4.0
85°	2.7
87.5°	1.3
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)