

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: P643279

Luminaire Tested: ML5615LSVWFL759FS1E - 692W - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 692W - 1500LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

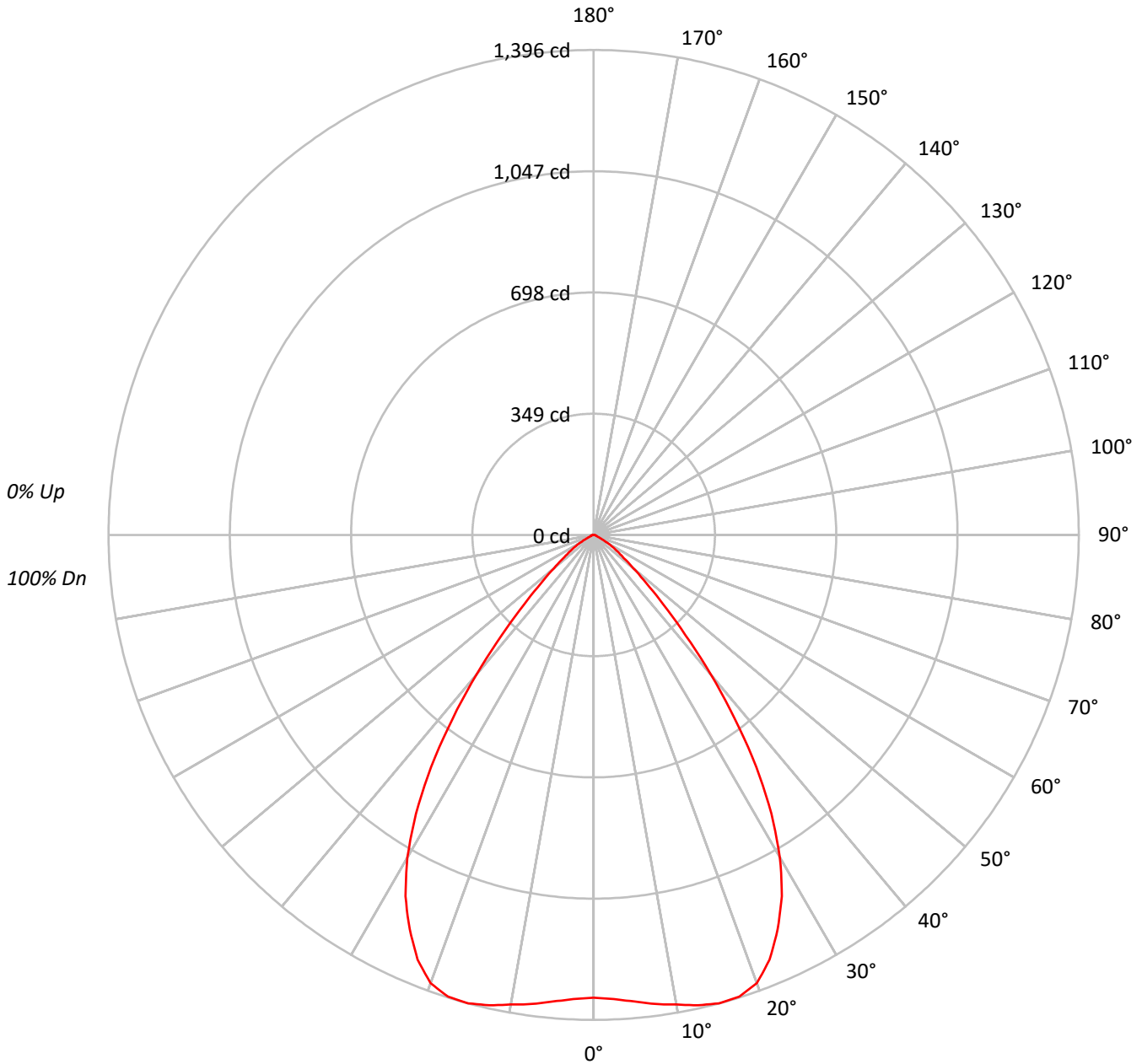
Lumens per Lamp: N/A
Luminaire Lumens: 1933.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	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	58																			
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	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°	73020
5°	74174
10°	76413
15°	79212
20°	80081
25°	75754
30°	67859
35°	54576
40°	37470
45°	21940
50°	12673
55°	8114
60°	4846
65°	2296
70°	1410
75°	1504
80°	1105
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	6.7
10°-20°	393.3	20.3
20°-30°	571.1	29.5
30°-40°	500.8	25.9
40°-50°	231.3	12.0
50°-60°	78.7	4.1
60°-70°	20.0	1.0
70°-80°	7.2	0.4
80°-90°	1.9	0.1
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°	1094.0	56.6
0°-40°	1594.7	82.5
0°-60°	1904.7	98.5
0°-90°	1933.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1332	
5°	1348	130
15°	1396	393
25°	1252	571
35°	816	501
45°	283	231
55°	85	79
65°	18	20
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1332.0
2.5°	1337.3
5°	1347.9
7.5°	1362.1
10°	1372.7
12.5°	1386.8
15°	1395.7
17.5°	1393.9
20°	1372.7
22.5°	1323.1
25°	1252.4
27.5°	1172.8
30°	1072.0
32.5°	951.7
35°	815.5
37.5°	666.9
40°	523.6
42.5°	390.9
45°	283.0
47.5°	205.2
50°	148.6
52.5°	109.7
55°	84.9
57.5°	63.7
60°	44.2
62.5°	26.5
65°	17.7
67.5°	10.6
70°	8.8
72.5°	8.8
75°	7.1
77.5°	5.3
80°	3.5
82.5°	3.5
85°	1.8
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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(END OF REPORT)