

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: P642931

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 692W - 1500LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1663.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

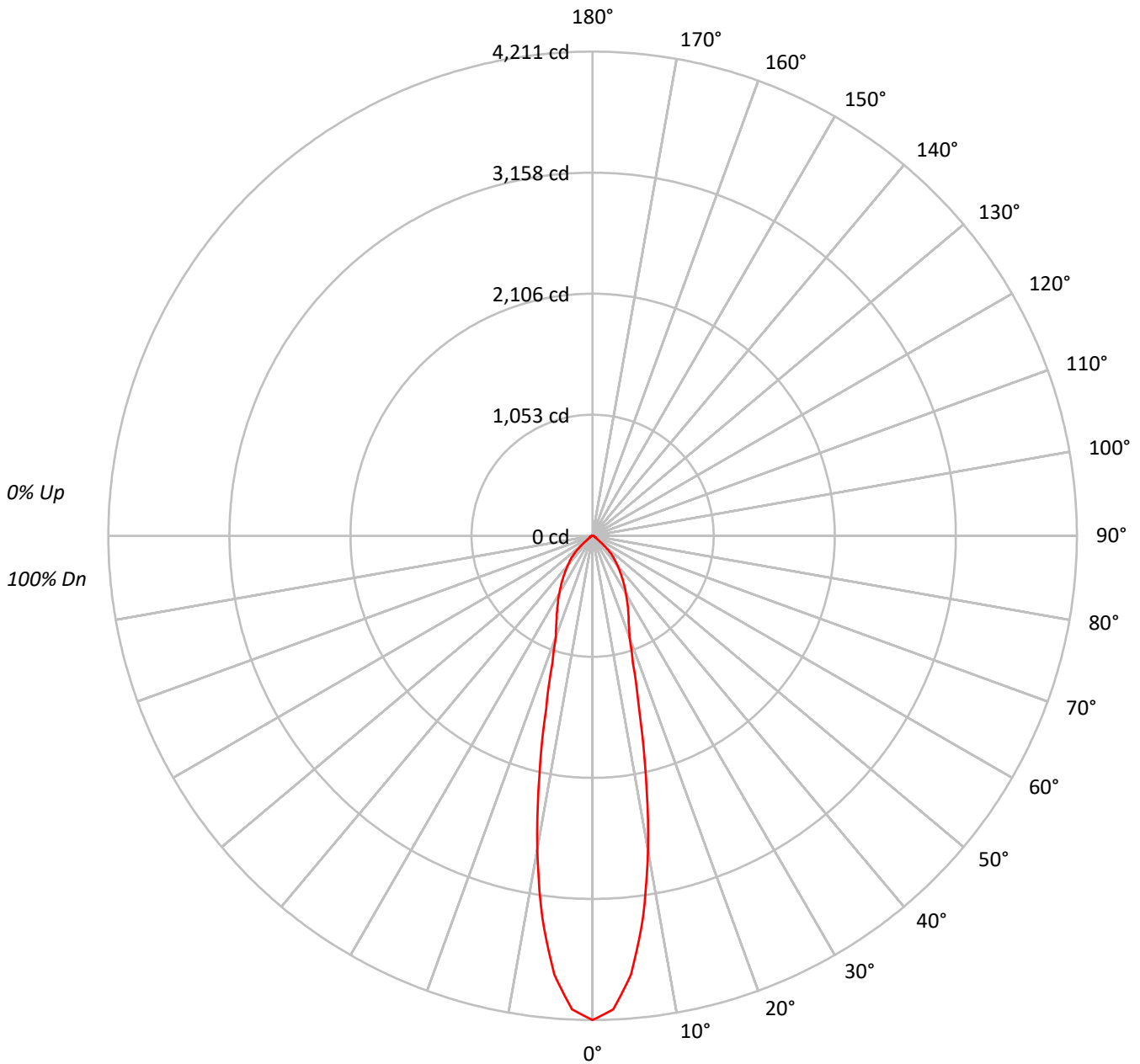
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230864
5°	210703
10°	154551
15°	88582
20°	54593
25°	44386
30°	36702
35°	29961
40°	24031
45°	18684
50°	10345
55°	4014
60°	3234
65°	2828
70°	2484
75°	2626
80°	2462
85°	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18684 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	19.9
10°-20°	448.9	27.0
20°-30°	338.4	20.3
30°-40°	280.6	16.9
40°-50°	178.9	10.8
50°-60°	47.6	2.9
60°-70°	22.1	1.3
70°-80°	12.5	0.8
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°	1118.5	67.2
0°-40°	1399.0	84.1
0°-60°	1625.6	97.7
0°-90°	1663.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4211	
5°	3829	331
15°	1561	449
25°	734	338
35°	448	281
45°	241	179
55°	42	48
65°	22	22
75°	12	12
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4211.3
2.5°	4124.2
5°	3828.9
7.5°	3353.2
10°	2776.4
12.5°	2136.0
15°	1560.8
17.5°	1164.4
20°	935.8
22.5°	820.8
25°	733.8
27.5°	652.9
30°	579.8
32.5°	511.4
35°	447.7
37.5°	388.6
40°	335.8
42.5°	287.6
45°	241.0
47.5°	178.8
50°	121.3
52.5°	63.7
55°	42.0
57.5°	34.2
60°	29.5
62.5°	26.4
65°	21.8
67.5°	18.7
70°	15.5
72.5°	14.0
75°	12.4
77.5°	9.3
80°	7.8
82.5°	4.7
85°	3.1
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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