

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: P642938

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642938
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 - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

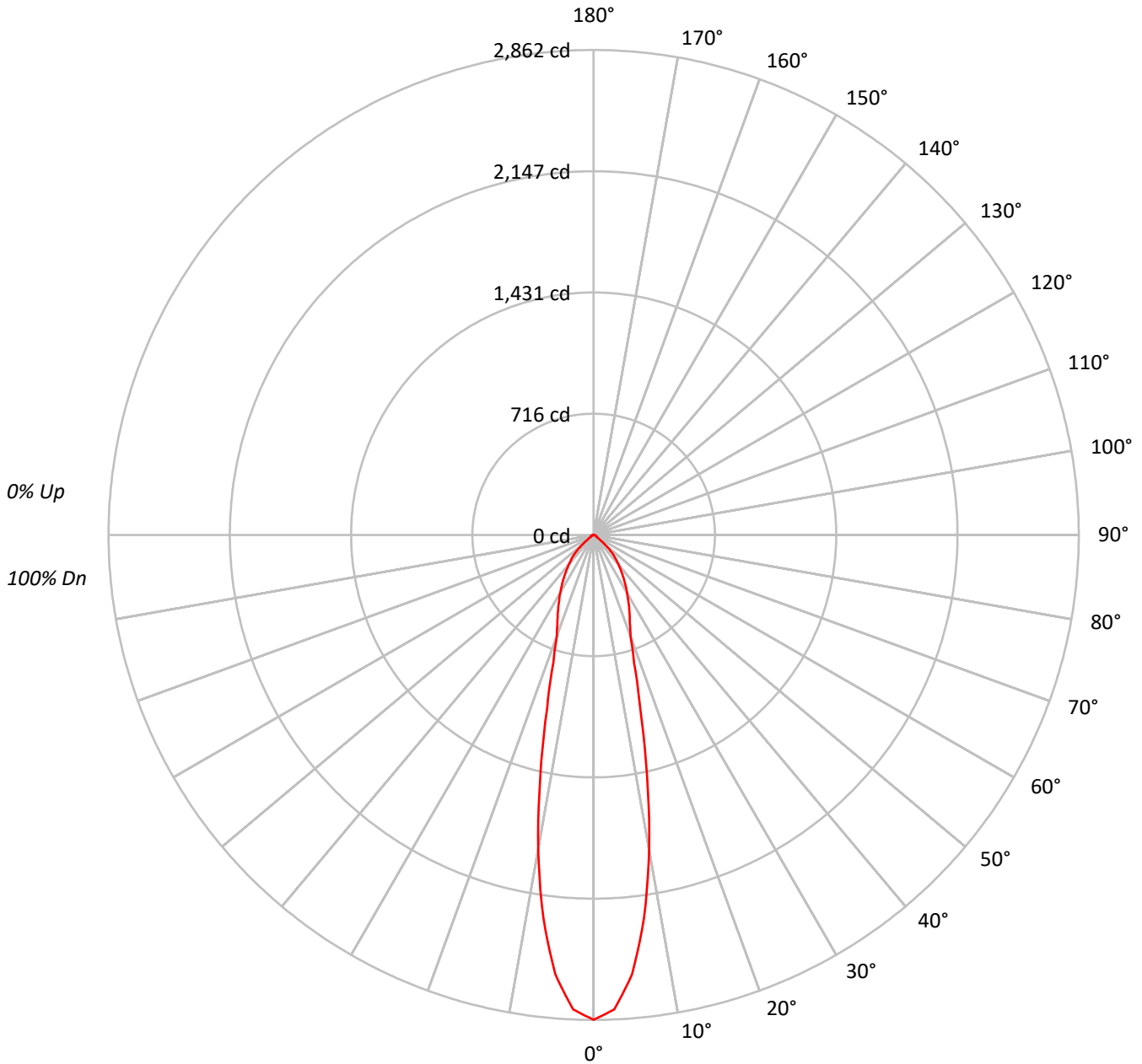
Lumens per Lamp: N/A
Luminaire Lumens: 1130.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	60	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°	156873
5°	143170
10°	105019
15°	60188
20°	37097
25°	30159
30°	24941
35°	20358
40°	16331
45°	12691
50°	7027
55°	2724
60°	2204
65°	1920
70°	1699
75°	1800
80°	1673
85°	1321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12691 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	19.9
10°-20°	305.0	27.0
20°-30°	230.0	20.3
30°-40°	190.6	16.9
40°-50°	121.6	10.8
50°-60°	32.3	2.9
60°-70°	15.0	1.3
70°-80°	8.5	0.8
80°-90°	2.5	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°	760.0	67.2
0°-40°	950.7	84.1
0°-60°	1104.6	97.7
0°-90°	1130.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2862	
5°	2602	225
15°	1060	305
25°	499	230
35°	304	191
45°	164	122
55°	28	32
65°	15	15
75°	8	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2861.6
2.5°	2802.4
5°	2601.7
7.5°	2278.5
10°	1886.6
12.5°	1451.4
15°	1060.5
17.5°	791.2
20°	635.9
22.5°	557.7
25°	498.6
27.5°	443.7
30°	394.0
32.5°	347.5
35°	304.2
37.5°	264.1
40°	228.2
42.5°	195.4
45°	163.7
47.5°	121.5
50°	82.4
52.5°	43.3
55°	28.5
57.5°	23.2
60°	20.1
62.5°	18.0
65°	14.8
67.5°	12.7
70°	10.6
72.5°	9.5
75°	8.5
77.5°	6.3
80°	5.3
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)