

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: P642928

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642928
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 - 1200LM - 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: 1429.9 lumens
Efficiency: N/A
Efficacy: 106.7 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

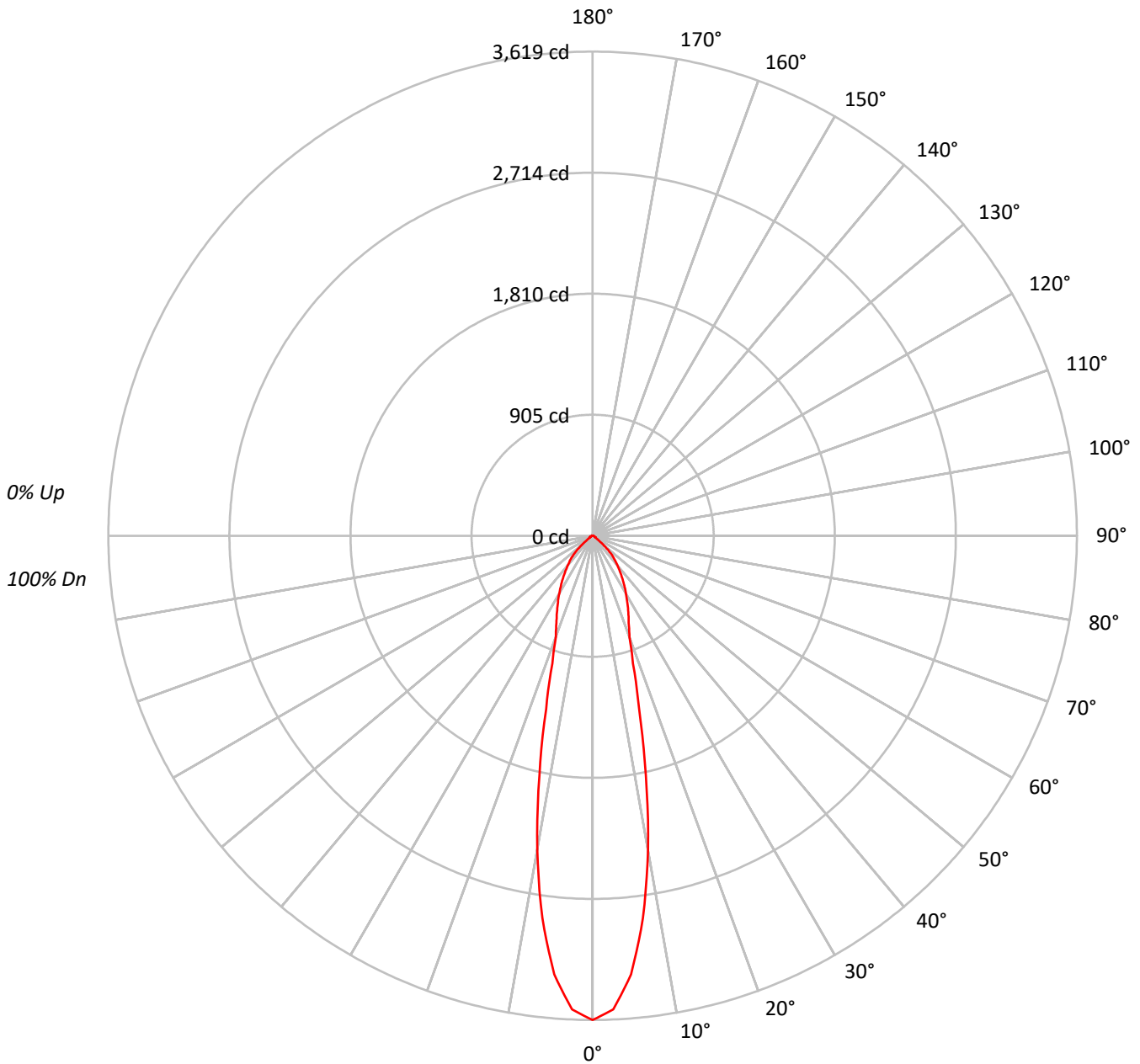
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	198405
5°	181075
10°	132824
15°	76124
20°	46922
25°	38143
30°	31543
35°	25752
40°	20653
45°	16056
50°	8887
55°	3450
60°	2785
65°	2426
70°	2148
75°	2266
80°	2115
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16056 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	19.9
10°-20°	385.7	27.0
20°-30°	290.8	20.3
30°-40°	241.1	16.9
40°-50°	153.8	10.8
50°-60°	40.9	2.9
60°-70°	19.0	1.3
70°-80°	10.7	0.8
80°-90°	3.1	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°	961.2	67.2
0°-40°	1202.3	84.1
0°-60°	1397.0	97.7
0°-90°	1429.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3619	
5°	3290	285
15°	1341	386
25°	631	291
35°	385	241
45°	207	154
55°	36	41
65°	19	19
75°	11	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3619.2
2.5°	3544.4
5°	3290.5
7.5°	2881.7
10°	2386.1
12.5°	1835.6
15°	1341.3
17.5°	1000.7
20°	804.3
22.5°	705.4
25°	630.6
27.5°	561.1
30°	498.3
32.5°	439.5
35°	384.8
37.5°	334.0
40°	288.6
42.5°	247.2
45°	207.1
47.5°	153.6
50°	104.2
52.5°	54.8
55°	36.1
57.5°	29.4
60°	25.4
62.5°	22.7
65°	18.7
67.5°	16.0
70°	13.4
72.5°	12.0
75°	10.7
77.5°	8.0
80°	6.7
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)