

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: P642708

Luminaire Tested: ML5615LSNFL259FS1E - 591WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 591WB - 1500LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

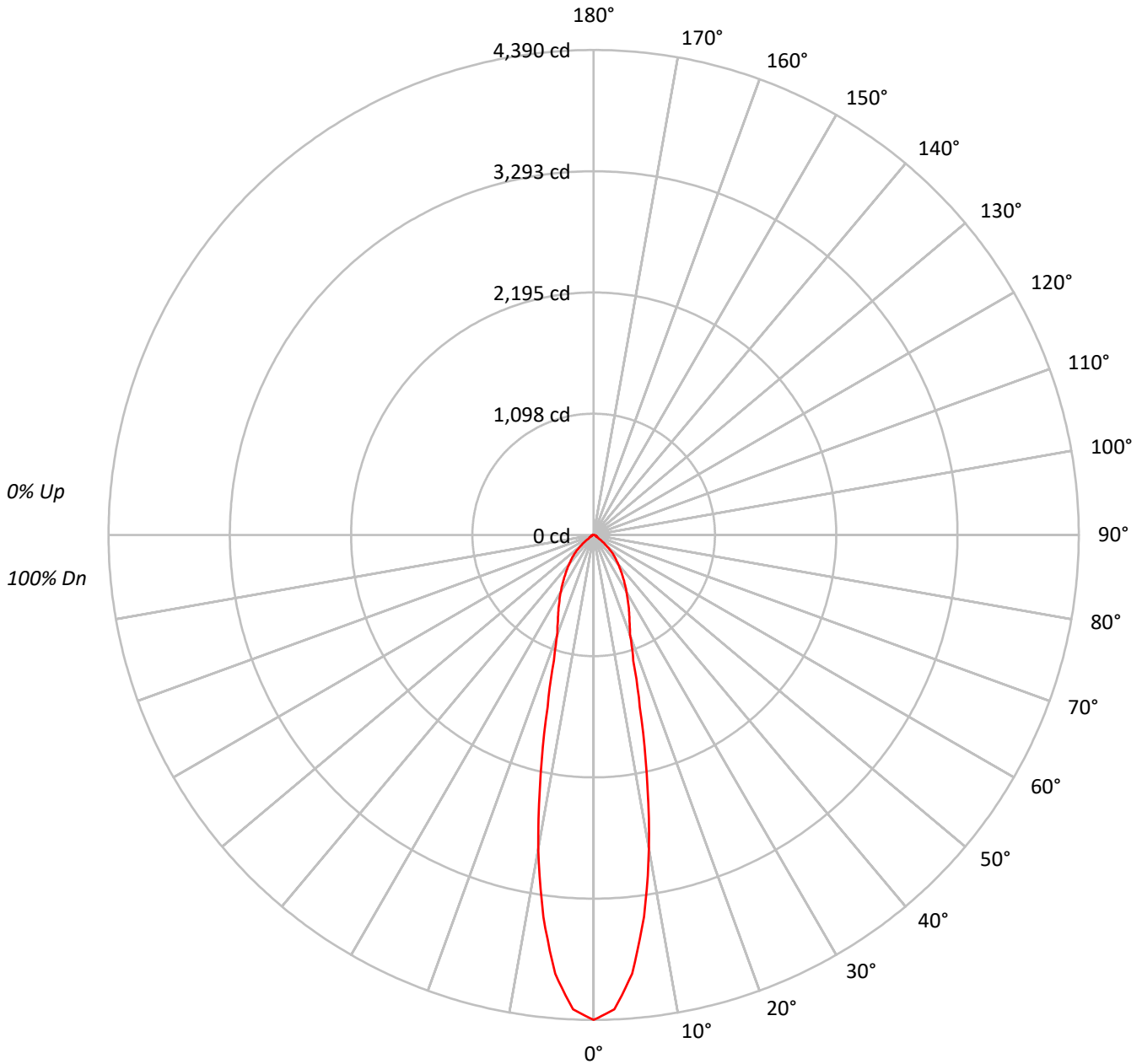
Lumens per Lamp: N/A
Luminaire Lumens: 1744.7 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): 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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66																			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58																			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	346535
5°	315948
10°	231202
15°	131627
20°	81042
25°	65849
30°	54227
35°	44031
40°	35563
45°	28435
50°	18569
55°	8148
60°	5194
65°	4614
70°	4178
75°	3996
80°	4501
85°	4438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	19.8
10°-20°	463.7	26.6
20°-30°	348.2	20.0
30°-40°	287.0	16.5
40°-50°	191.4	11.0
50°-60°	64.9	3.7
60°-70°	25.0	1.4
70°-80°	14.1	0.8
80°-90°	5.8	0.3
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°	1156.4	66.3
0°-40°	1443.5	82.7
0°-60°	1699.8	97.4
0°-90°	1744.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4390	
5°	3987	345
15°	1611	464
25°	756	348
35°	457	287
45°	255	191
55°	59	65
65°	25	25
75°	13	14
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4389.8
2.5°	4299.4
5°	3987.1
7.5°	3485.9
10°	2884.3
12.5°	2213.8
15°	1610.6
17.5°	1194.8
20°	964.7
22.5°	844.8
25°	756.0
27.5°	670.5
30°	594.9
32.5°	522.6
35°	456.9
37.5°	397.7
40°	345.1
42.5°	297.5
45°	254.7
47.5°	198.9
50°	151.2
52.5°	103.5
55°	59.2
57.5°	39.4
60°	32.9
62.5°	29.6
65°	24.7
67.5°	21.4
70°	18.1
72.5°	14.8
75°	13.1
77.5°	11.5
80°	9.9
82.5°	8.2
85°	4.9
87.5°	3.3
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)