

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: P642754

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592W - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

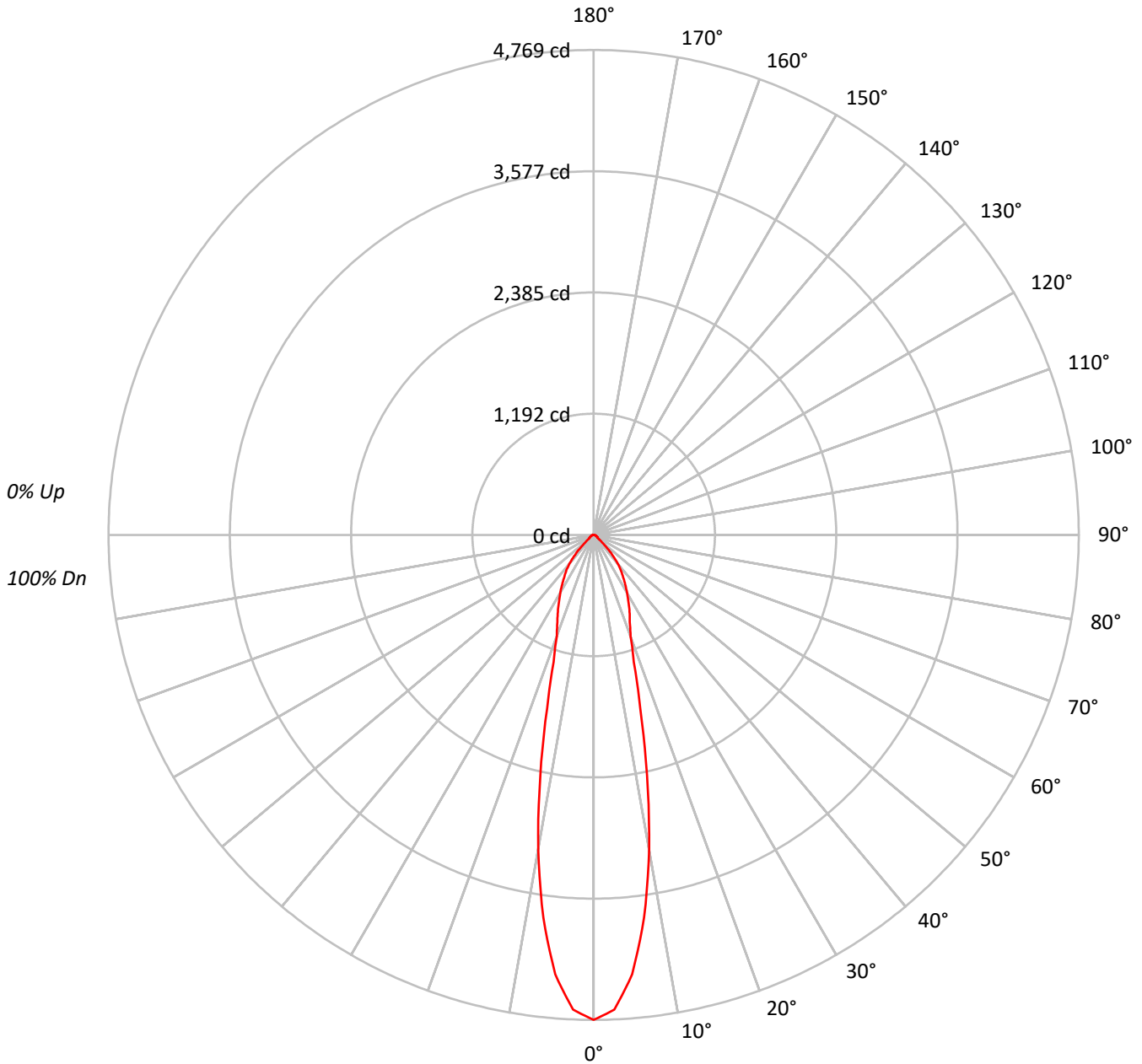
Lumens per Lamp: N/A
Luminaire Lumens: 1847.2 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (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				100															
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75				75															
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71															
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67				67															
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57				57															
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54				54															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376453
5°	343714
10°	251626
15°	144450
20°	88938
25°	72669
30°	59614
35°	48541
40°	38252
45°	23679
50°	8904
55°	6813
60°	6426
65°	5940
70°	5701
75°	5917
80°	5637
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23679 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	20.3
10°-20°	507.3	27.5
20°-30°	383.3	20.8
30°-40°	315.8	17.1
40°-50°	161.6	8.7
50°-60°	46.2	2.5
60°-70°	31.7	1.7
70°-80°	20.3	1.1
80°-90°	6.0	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°	1265.7	68.5
0°-40°	1581.5	85.6
0°-60°	1789.2	96.9
0°-90°	1847.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4769	
5°	4338	375
15°	1768	507
25°	834	383
35°	504	316
45°	212	162
55°	50	46
65°	32	32
75°	19	20
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4768.8
2.5°	4673.3
5°	4337.5
7.5°	3796.7
10°	3139.1
12.5°	2418.0
15°	1767.5
17.5°	1309.7
20°	1058.7
22.5°	929.7
25°	834.3
27.5°	738.8
30°	654.0
32.5°	576.2
35°	503.7
37.5°	440.1
40°	371.2
42.5°	286.3
45°	212.1
47.5°	130.8
50°	72.5
52.5°	56.6
55°	49.5
57.5°	44.2
60°	40.7
62.5°	35.4
65°	31.8
67.5°	28.3
70°	24.7
72.5°	23.0
75°	19.4
77.5°	15.9
80°	12.4
82.5°	8.8
85°	5.3
87.5°	1.8
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)