

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: P642814

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 593WB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1845.5 lumens
Efficiency: N/A
Efficacy: 107.9 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

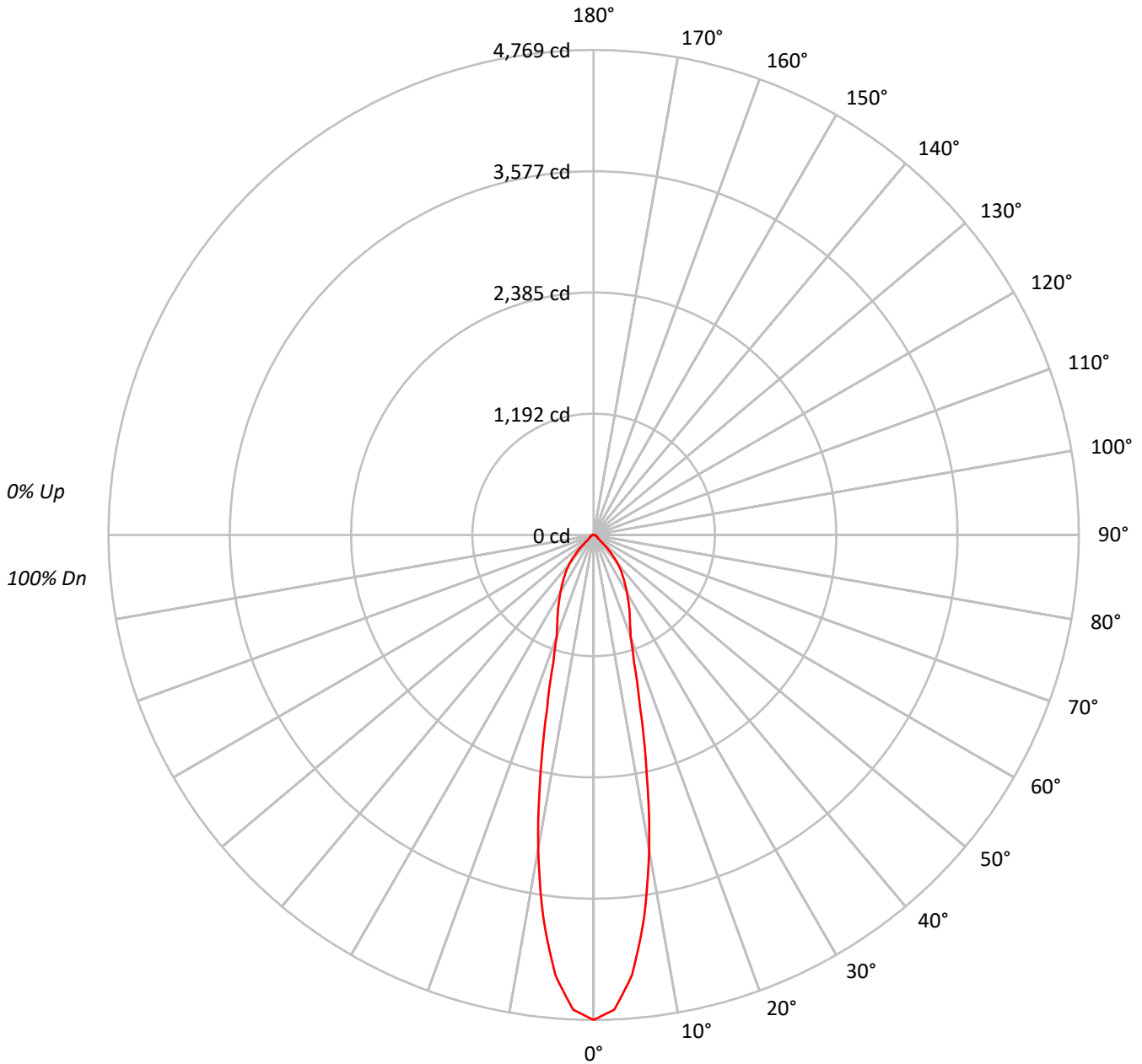
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376446
5°	343968
10°	251955
15°	144556
20°	89157
25°	72564
30°	59660
35°	48580
40°	38283
45°	23500
50°	8695
55°	6579
60°	6142
65°	5622
70°	5724
75°	5948
80°	5637
85°	6431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.2	20.3
10°-20°	508.2	27.5
20°-30°	383.5	20.8
30°-40°	315.8	17.1
40°-50°	160.8	8.7
50°-60°	45.0	2.4
60°-70°	30.6	1.7
70°-80°	19.8	1.1
80°-90°	6.5	0.4
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°	1266.9	68.6
0°-40°	1582.7	85.8
0°-60°	1788.5	96.9
0°-90°	1845.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1845.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4769	
5°	4341	375
15°	1769	508
25°	833	384
35°	504	316
45°	210	161
55°	48	45
65°	30	31
75°	20	20
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4768.7
2.5°	4671.5
5°	4340.7
7.5°	3797.7
10°	3143.2
12.5°	2416.2
15°	1768.8
17.5°	1317.8
20°	1061.3
22.5°	930.4
25°	833.1
27.5°	739.4
30°	654.5
32.5°	574.9
35°	504.1
37.5°	440.4
40°	371.5
42.5°	286.5
45°	210.5
47.5°	129.1
50°	70.8
52.5°	54.8
55°	47.8
57.5°	44.2
60°	38.9
62.5°	35.4
65°	30.1
67.5°	26.5
70°	24.8
72.5°	21.2
75°	19.5
77.5°	15.9
80°	12.4
82.5°	8.8
85°	7.1
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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