

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: P642769

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 593BB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

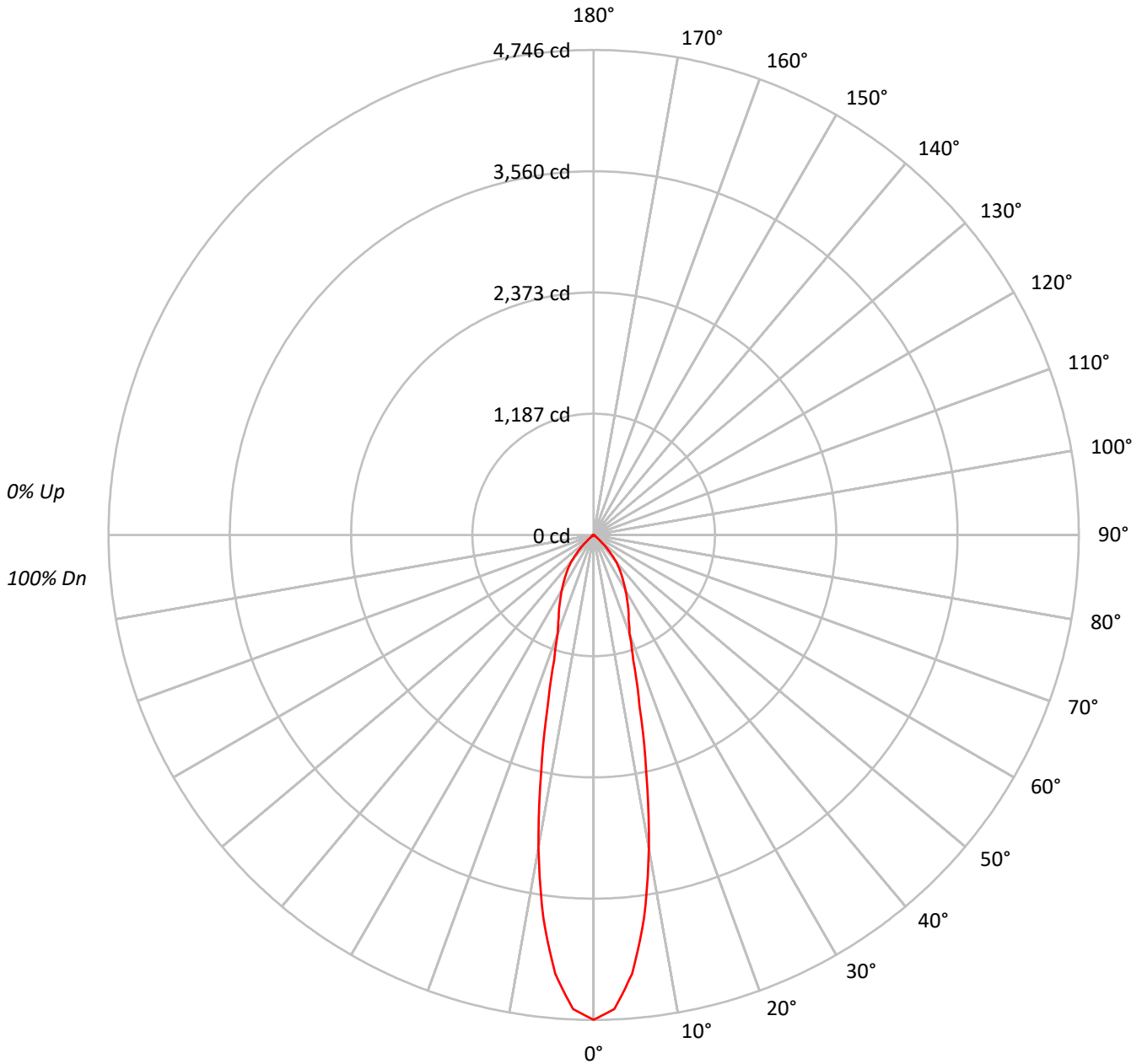
Lumens per Lamp: N/A
Luminaire Lumens: 1692.2 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94																			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89																			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83																			
4	99	92	87	83	98	91	86	83	89	85	82	87	84	81	85	82	80	79																			
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74																			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	72	70																			
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67																			
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63																			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	374614
5°	341567
10°	249390
15°	141663
20°	86326
25°	69786
30°	56588
35°	45515
40°	34996
45°	20140
50°	4777
55°	2188
60°	1674
65°	654
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20140 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	22.0
10°-20°	498.2	29.4
20°-30°	368.4	21.8
30°-40°	295.7	17.5
40°-50°	136.5	8.1
50°-60°	16.8	1.0
60°-70°	3.9	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1239.3	73.2
0°-40°	1535.0	90.7
0°-60°	1688.3	99.8
0°-90°	1692.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4746	
5°	4310	373
15°	1733	498
25°	801	368
35°	472	296
45°	180	136
55°	16	17
65°	4	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4745.5
2.5°	4644.7
5°	4310.4
7.5°	3779.8
10°	3111.2
12.5°	2375.4
15°	1733.4
17.5°	1284.1
20°	1027.6
22.5°	896.8
25°	801.2
27.5°	707.5
30°	620.8
32.5°	543.0
35°	472.3
37.5°	408.6
40°	339.6
42.5°	252.9
45°	180.4
47.5°	99.0
50°	38.9
52.5°	23.0
55°	15.9
57.5°	12.4
60°	10.6
62.5°	5.3
65°	3.5
67.5°	1.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)