

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: P642813

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642813
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 - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

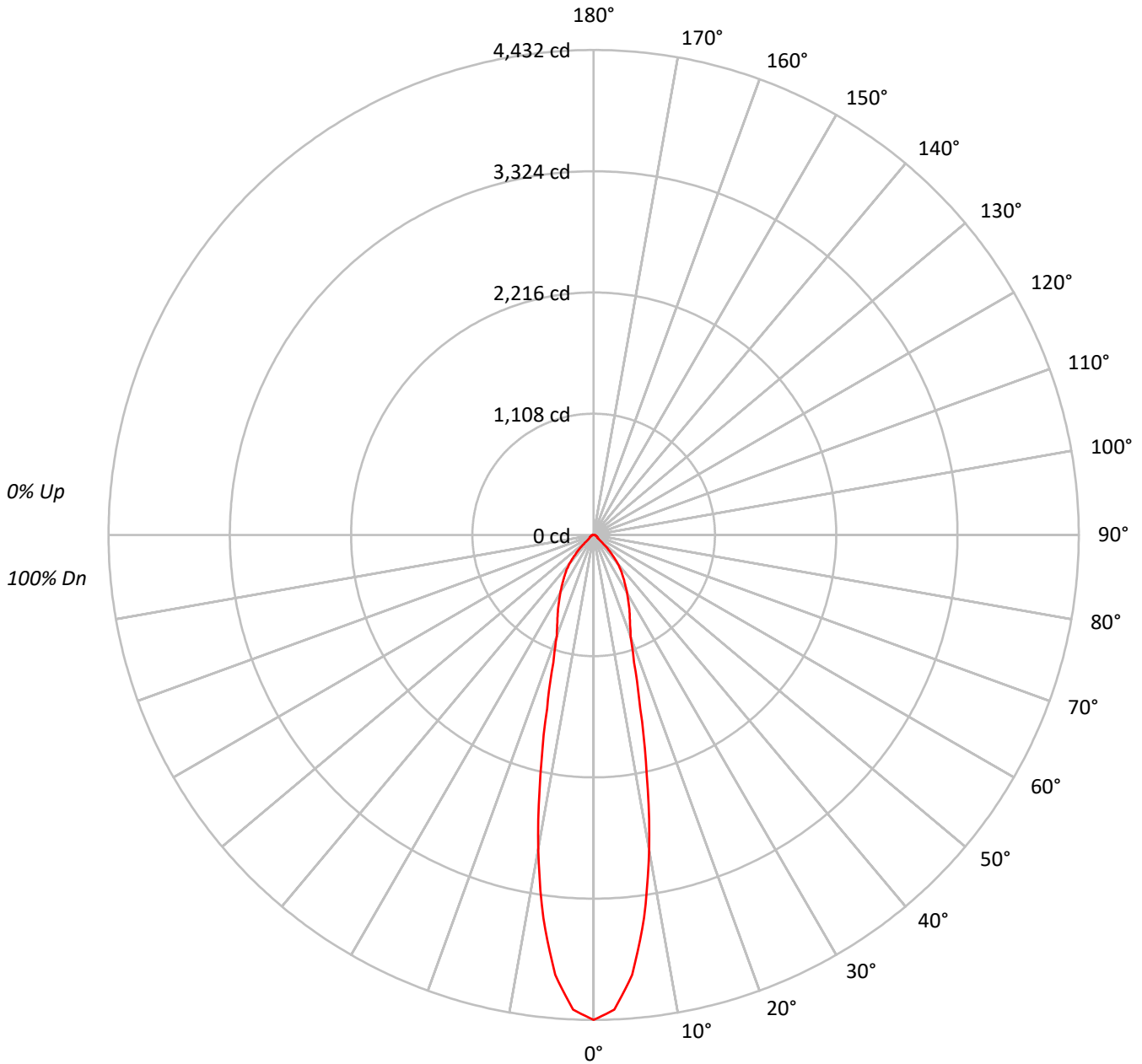
Lumens per Lamp: N/A
Luminaire Lumens: 1715.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			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	80	77	75			75																
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71																
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67																
7	85	76	70	66	83	75	69	66	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	77	68	62	59	67	62	59	66	62	58	65	61	58	57			57																
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			54																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	349874
5°	319680
10°	234168
15°	134349
20°	82865
25°	67443
30°	55448
35°	45149
40°	35573
45°	21837
50°	8081
55°	6111
60°	5715
65°	5211
70°	5309
75°	5521
80°	5228
85°	5978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	20.3
10°-20°	472.3	27.5
20°-30°	356.4	20.8
30°-40°	293.5	17.1
40°-50°	149.4	8.7
50°-60°	41.8	2.4
60°-70°	28.5	1.7
70°-80°	18.4	1.1
80°-90°	6.0	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°	1177.5	68.7
0°-40°	1471.0	85.8
0°-60°	1662.2	96.9
0°-90°	1715.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4432	
5°	4034	349
15°	1644	472
25°	774	356
35°	468	293
45°	196	149
55°	44	42
65°	28	28
75°	18	18
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4432.1
2.5°	4341.7
5°	4034.2
7.5°	3529.6
10°	2921.3
12.5°	2245.6
15°	1643.9
17.5°	1224.7
20°	986.4
22.5°	864.7
25°	774.3
27.5°	687.2
30°	608.3
32.5°	534.3
35°	468.5
37.5°	409.3
40°	345.2
42.5°	266.3
45°	195.6
47.5°	120.0
50°	65.8
52.5°	51.0
55°	44.4
57.5°	41.1
60°	36.2
62.5°	32.9
65°	27.9
67.5°	24.7
70°	23.0
72.5°	19.7
75°	18.1
77.5°	14.8
80°	11.5
82.5°	8.2
85°	6.6
87.5°	1.6
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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