

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: P642812

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642812
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

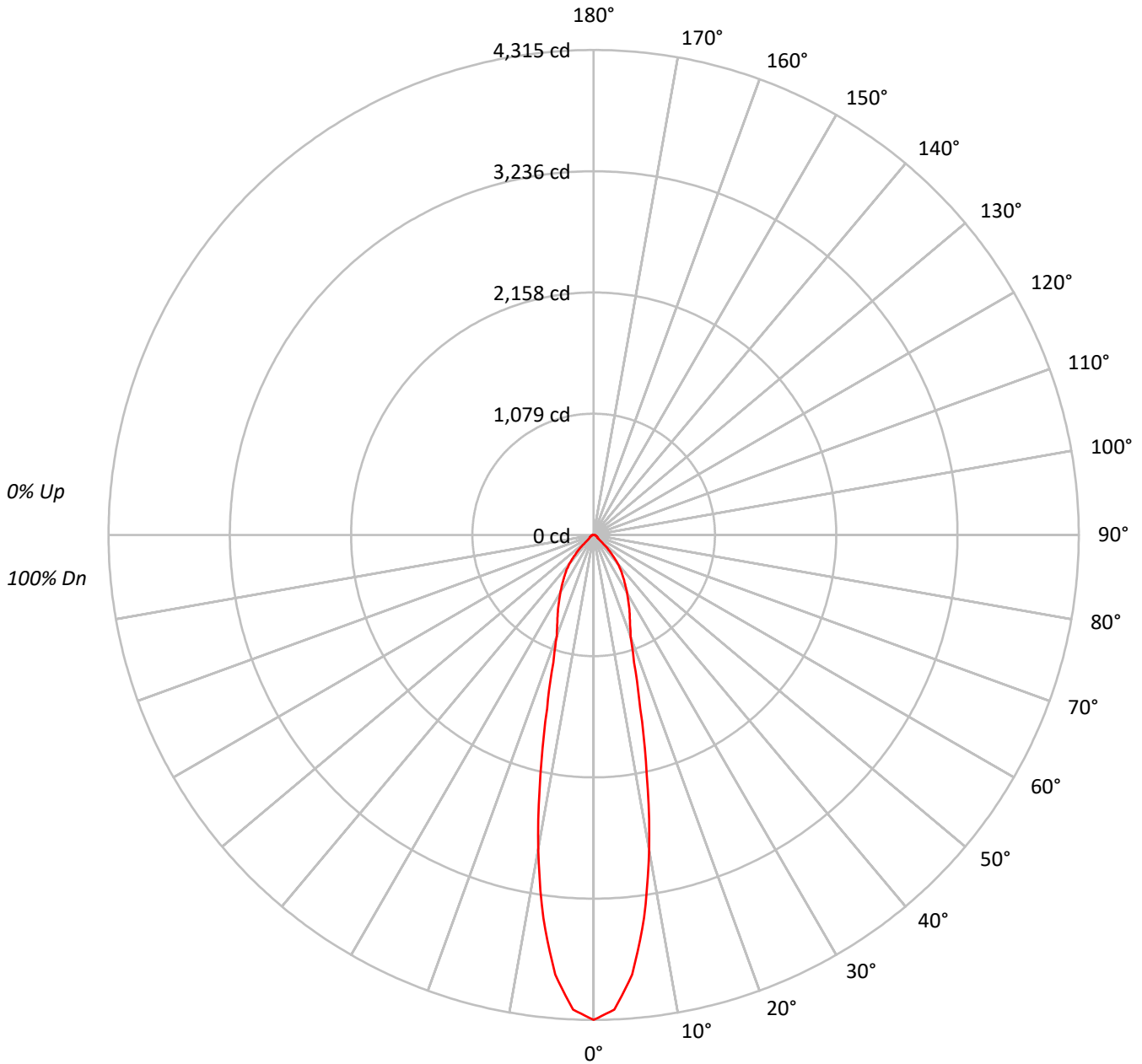
Lumens per Lamp: N/A
Luminaire Lumens: 1669.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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°	340598
5°	311209
10°	227963
15°	130794
20°	80664
25°	65657
30°	53972
35°	43954
40°	34635
45°	21256
50°	7860
55°	5946
60°	5557
65°	5081
70°	5170
75°	5368
80°	5092
85°	5797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.5	20.3
10°-20°	459.8	27.5
20°-30°	347.0	20.8
30°-40°	285.7	17.1
40°-50°	145.5	8.7
50°-60°	40.7	2.4
60°-70°	27.7	1.7
70°-80°	17.9	1.1
80°-90°	5.9	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°	1146.3	68.7
0°-40°	1432.0	85.8
0°-60°	1618.2	96.9
0°-90°	1669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4315	
5°	3927	339
15°	1600	460
25°	754	347
35°	456	286
45°	190	145
55°	43	41
65°	27	28
75°	18	18
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4314.6
2.5°	4226.6
5°	3927.3
7.5°	3436.0
10°	2843.9
12.5°	2186.1
15°	1600.4
17.5°	1192.3
20°	960.2
22.5°	841.8
25°	753.8
27.5°	669.0
30°	592.1
32.5°	520.1
35°	456.1
37.5°	398.5
40°	336.1
42.5°	259.3
45°	190.4
47.5°	116.8
50°	64.0
52.5°	49.6
55°	43.2
57.5°	40.0
60°	35.2
62.5°	32.0
65°	27.2
67.5°	24.0
70°	22.4
72.5°	19.2
75°	17.6
77.5°	14.4
80°	11.2
82.5°	8.0
85°	6.4
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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