

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: P642811

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642811
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 - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

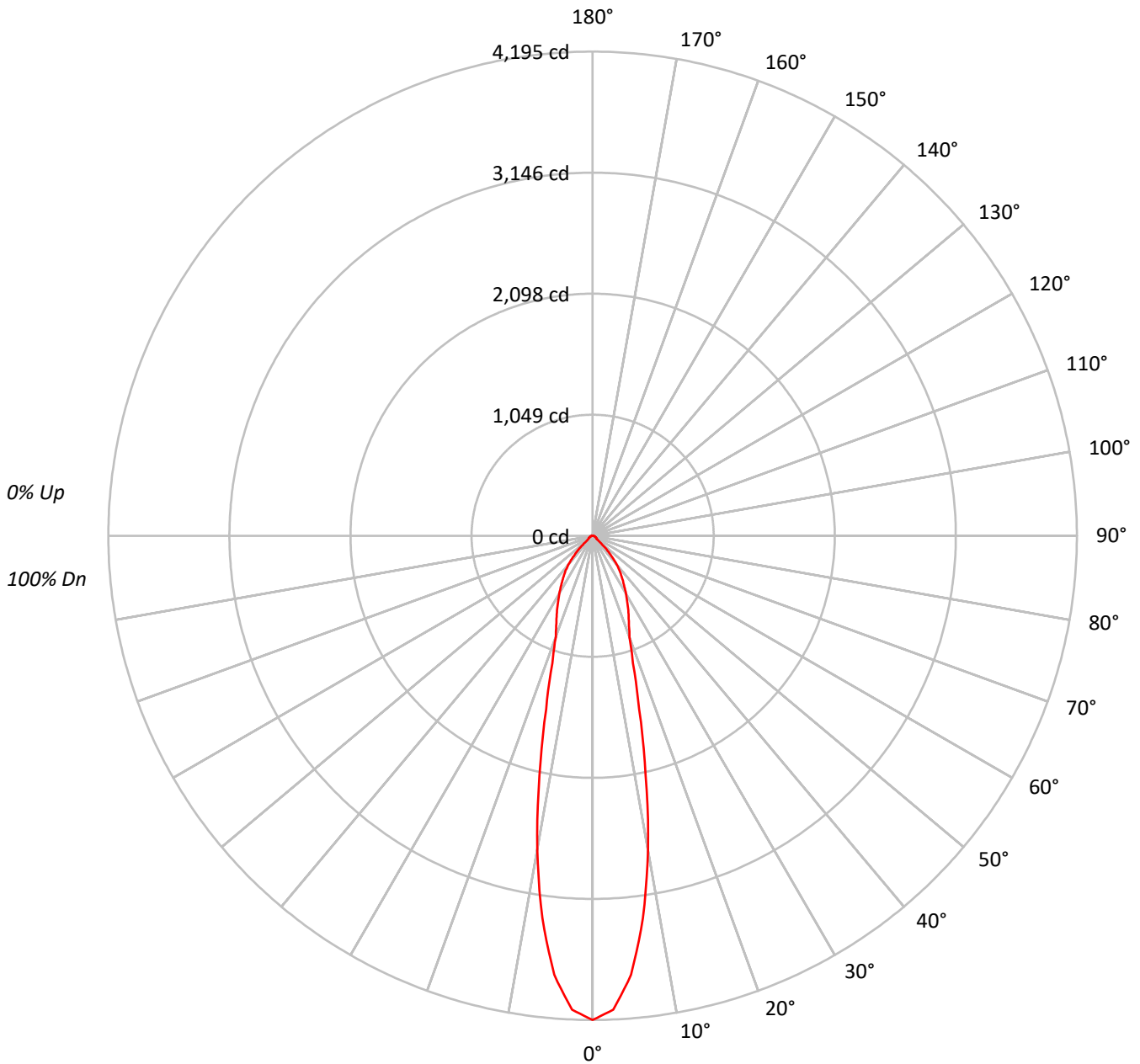
Lumens per Lamp: N/A
Luminaire Lumens: 1623.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			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°	331141
5°	302564
10°	221631
15°	127157
20°	78429
25°	63828
30°	52477
35°	42730
40°	33666
45°	20676
50°	7639
55°	5780
60°	5400
65°	4950
70°	5032
75°	5216
80°	4955
85°	5616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	20.3
10°-20°	447.0	27.5
20°-30°	337.4	20.8
30°-40°	277.8	17.1
40°-50°	141.5	8.7
50°-60°	39.6	2.4
60°-70°	26.9	1.7
70°-80°	17.5	1.1
80°-90°	5.7	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°	1114.4	68.7
0°-40°	1392.2	85.8
0°-60°	1573.2	96.9
0°-90°	1623.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4195	
5°	3818	330
15°	1556	447
25°	733	337
35°	443	278
45°	185	141
55°	42	40
65°	26	27
75°	17	17
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4194.8
2.5°	4109.2
5°	3818.2
7.5°	3340.6
10°	2764.9
12.5°	2125.4
15°	1555.9
17.5°	1159.2
20°	933.6
22.5°	818.4
25°	732.8
27.5°	650.4
30°	575.7
32.5°	505.7
35°	443.4
37.5°	387.4
40°	326.7
42.5°	252.1
45°	185.2
47.5°	113.6
50°	62.2
52.5°	48.2
55°	42.0
57.5°	38.9
60°	34.2
62.5°	31.1
65°	26.5
67.5°	23.3
70°	21.8
72.5°	18.7
75°	17.1
77.5°	14.0
80°	10.9
82.5°	7.8
85°	6.2
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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(END OF REPORT)