

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: P642826

Luminaire Tested: ML5615LSNFL259FS1E - 594SNB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594SNB - 1500LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

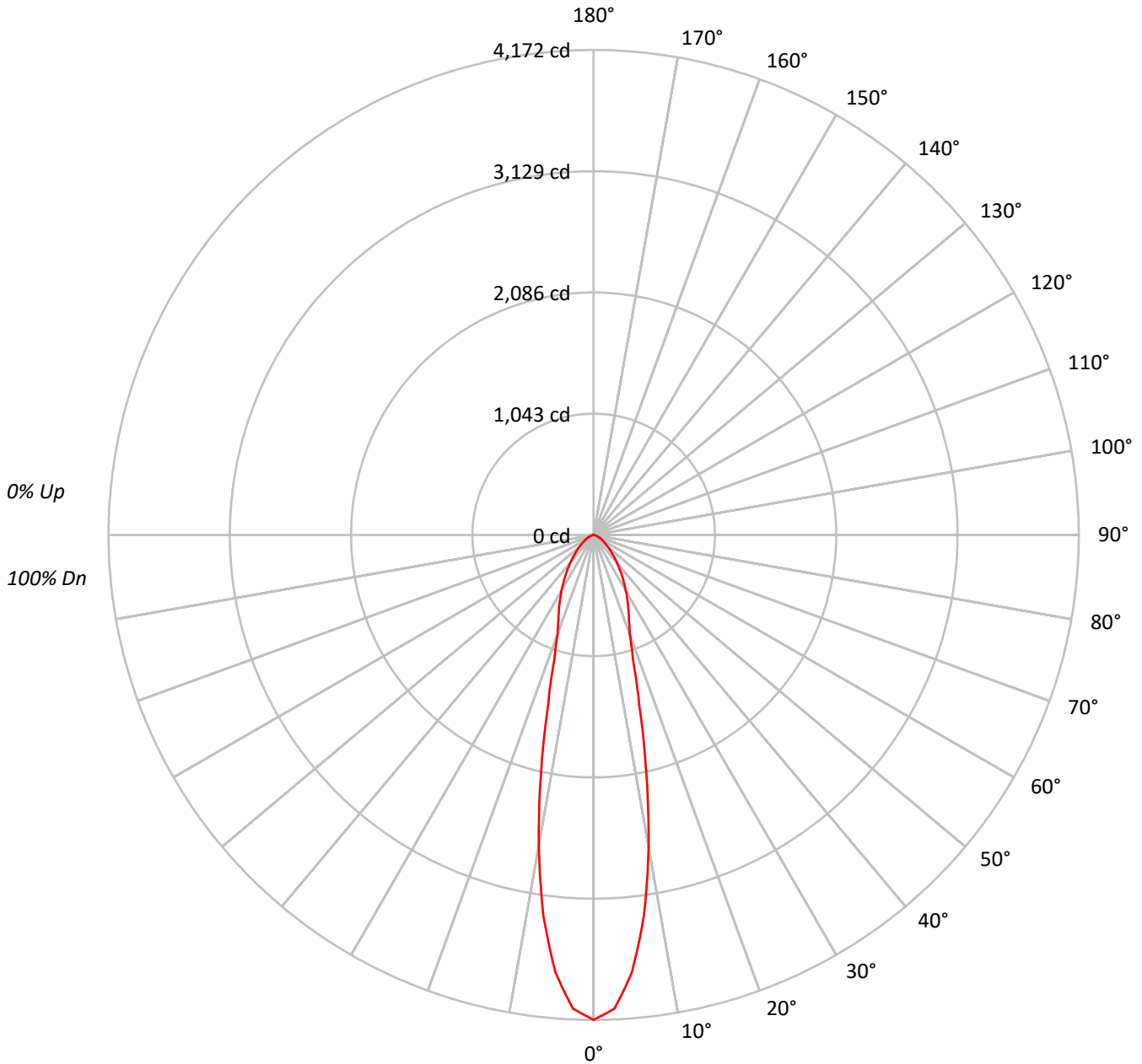
Lumens per Lamp: N/A
Luminaire Lumens: 1699.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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					20	
RC	80					70					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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92	
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85	
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78	
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73			73	
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68	
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64			64	
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60	
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			57	
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			54	
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51			51	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	329334
5°	299291
10°	218120
15°	123643
20°	76026
25°	61485
30°	50317
35°	40456
40°	32049
45°	25175
50°	19674
55°	15414
60°	12267
65°	9881
70°	7178
75°	3782
80°	2137
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25175 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.5	19.2
10°-20°	436.0	25.7
20°-30°	325.6	19.2
30°-40°	263.3	15.5
40°-50°	175.9	10.3
50°-60°	102.0	6.0
60°-70°	53.3	3.1
70°-80°	15.3	0.9
80°-90°	1.5	0.1
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°	1088.1	64.0
0°-40°	1351.5	79.5
0°-60°	1629.4	95.9
0°-90°	1699.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4172	
5°	3777	327
15°	1513	436
25°	706	326
35°	420	263
45°	226	176
55°	112	102
65°	53	53
75°	12	15
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4171.9
2.5°	4080.1
5°	3776.9
7.5°	3307.3
10°	2721.1
12.5°	2085.2
15°	1512.9
17.5°	1121.1
20°	905.0
22.5°	793.0
25°	705.9
27.5°	626.6
30°	552.0
32.5°	482.0
35°	419.8
37.5°	362.3
40°	311.0
42.5°	265.9
45°	225.5
47.5°	189.7
50°	160.2
52.5°	133.7
55°	112.0
57.5°	93.3
60°	77.7
62.5°	65.3
65°	52.9
67.5°	43.5
70°	31.1
72.5°	20.2
75°	12.4
77.5°	7.8
80°	4.7
82.5°	3.1
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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