

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P642827

Luminaire Tested: ML5615LSNFL259FS1E - 594SNB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642827
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

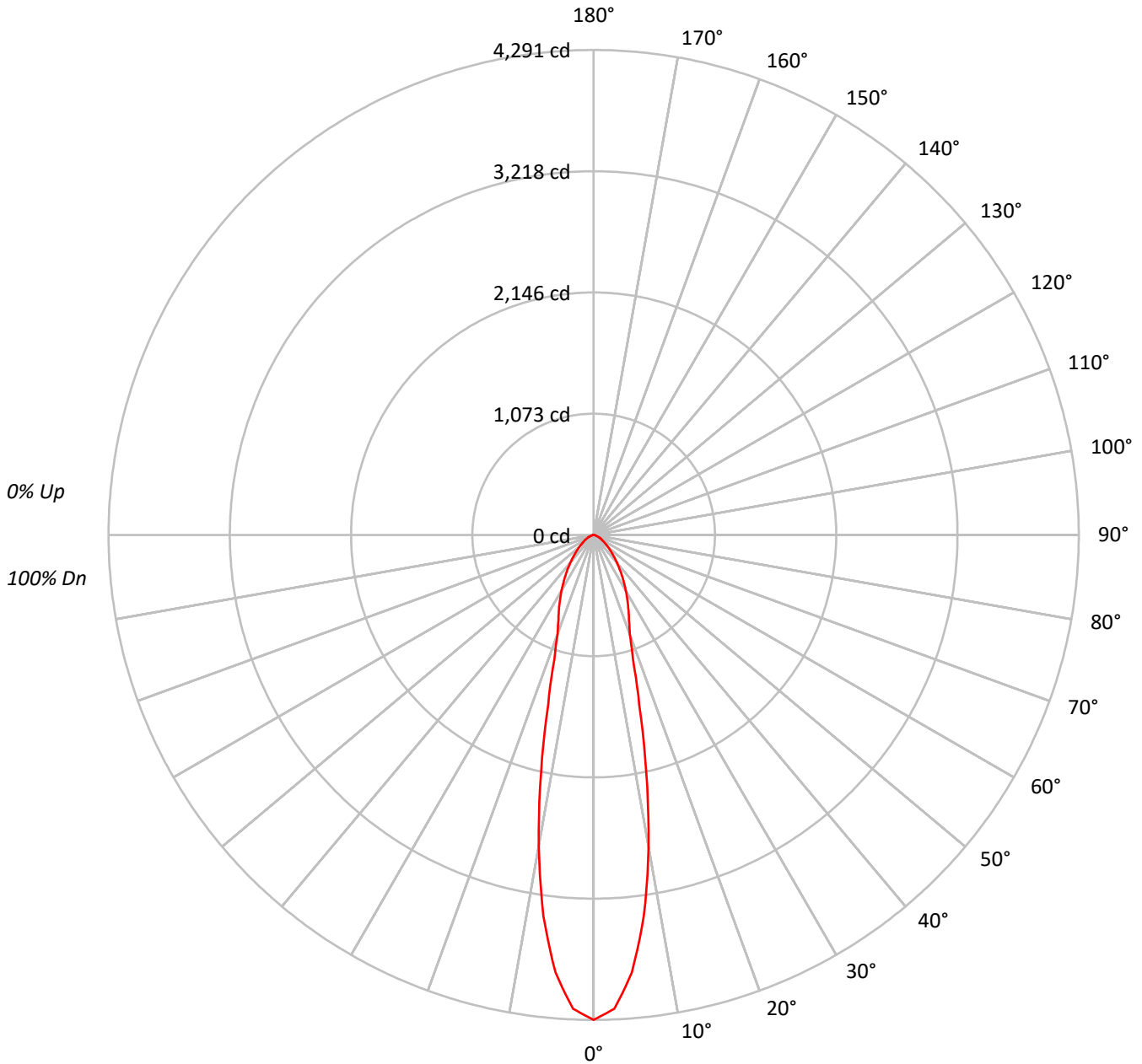
Lumens per Lamp: N/A
Luminaire Lumens: 1748.1 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			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°	338743
5°	307841
10°	224356
15°	127181
20°	78194
25°	63245
30°	51757
35°	41612
40°	32966
45°	25889
50°	20227
55°	15855
60°	12631
65°	10161
70°	7386
75°	3904
80°	2182
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25889 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	19.2
10°-20°	448.5	25.7
20°-30°	334.9	19.2
30°-40°	270.9	15.5
40°-50°	180.9	10.3
50°-60°	104.9	6.0
60°-70°	54.9	3.1
70°-80°	15.8	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°	1119.2	64.0
0°-40°	1390.1	79.5
0°-60°	1675.9	95.9
0°-90°	1748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4291	
5°	3885	336
15°	1556	448
25°	726	335
35°	432	271
45°	232	181
55°	115	105
65°	54	55
75°	13	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4291.1
2.5°	4196.7
5°	3884.8
7.5°	3401.8
10°	2798.9
12.5°	2144.7
15°	1556.2
17.5°	1153.1
20°	930.8
22.5°	815.7
25°	726.1
27.5°	644.5
30°	567.8
32.5°	495.8
35°	431.8
37.5°	372.6
40°	319.9
42.5°	273.5
45°	231.9
47.5°	195.1
50°	164.7
52.5°	137.5
55°	115.2
57.5°	96.0
60°	80.0
62.5°	67.2
65°	54.4
67.5°	44.8
70°	32.0
72.5°	20.8
75°	12.8
77.5°	8.0
80°	4.8
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)