

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: P642842

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594TBZB - 1500LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1749.7 lumens
Efficiency: N/A
Efficacy: 102.3 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

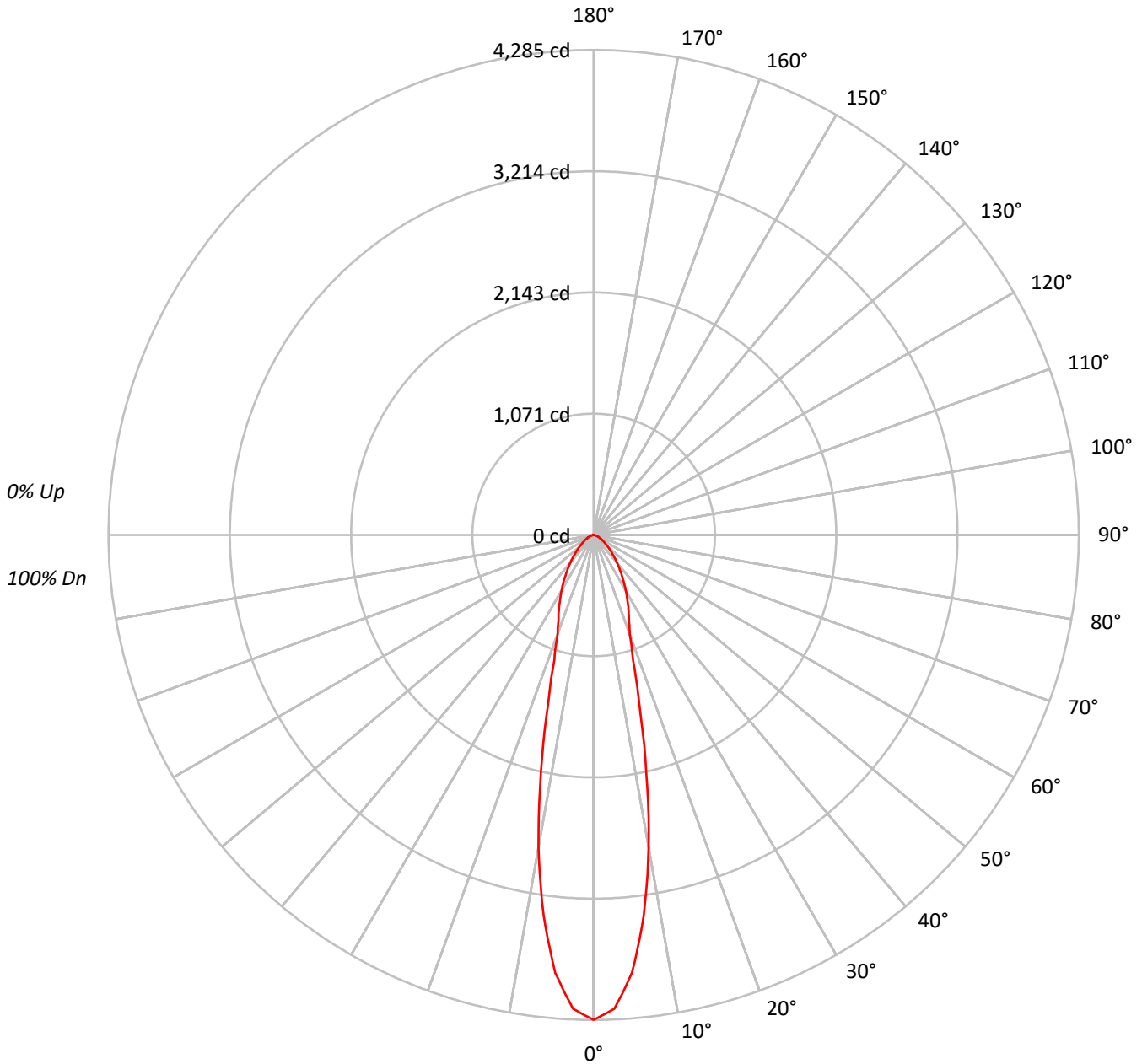
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	99	97	97	95	94	92	92	92	92																
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92	92	92	92	92	92	92	92																
	2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85	85	85	85	85	85	85	85																
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78	78	78	78	78	78	78	78																
	4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73	73	73	73	73																
	5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68	68	68	68	68	68	68	68																
	6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64	64	64	64	64	64	64	64	64	64	64																
	7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60	60	60	60	60	60	60	60																
	8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57	57	57	57	57	57	57	57																
	9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54	54	54	54	54	54	54	54	54	54	54																
	10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51	51	51	51	51	51	51	51	51	51	51																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	338262
5°	307754
10°	224541
15°	127402
20°	78303
25°	63227
30°	51593
35°	41603
40°	32955
45°	25878
50°	20227
55°	15841
60°	12615
65°	10460
70°	7386
75°	3904
80°	2909
85°	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	19.2
10°-20°	449.2	25.7
20°-30°	334.8	19.1
30°-40°	270.9	15.5
40°-50°	181.2	10.4
50°-60°	104.9	6.0
60°-70°	55.3	3.2
70°-80°	16.0	0.9
80°-90°	2.2	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°	1119.3	64.0
0°-40°	1390.2	79.5
0°-60°	1676.3	95.8
0°-90°	1749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4285	
5°	3884	335
15°	1559	449
25°	726	335
35°	432	271
45°	232	181
55°	115	105
65°	56	55
75°	13	16
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4285.0
2.5°	4190.7
5°	3883.7
7.5°	3389.6
10°	2801.2
12.5°	2147.3
15°	1558.9
17.5°	1156.0
20°	932.1
22.5°	815.4
25°	725.9
27.5°	644.3
30°	566.0
32.5°	497.3
35°	431.7
37.5°	372.5
40°	319.8
42.5°	273.4
45°	231.8
47.5°	196.7
50°	164.7
52.5°	137.5
55°	115.1
57.5°	95.9
60°	79.9
62.5°	67.2
65°	56.0
67.5°	44.8
70°	32.0
72.5°	20.8
75°	12.8
77.5°	8.0
80°	6.4
82.5°	3.2
85°	1.6
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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(END OF REPORT)