

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: P643012

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694TBZB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

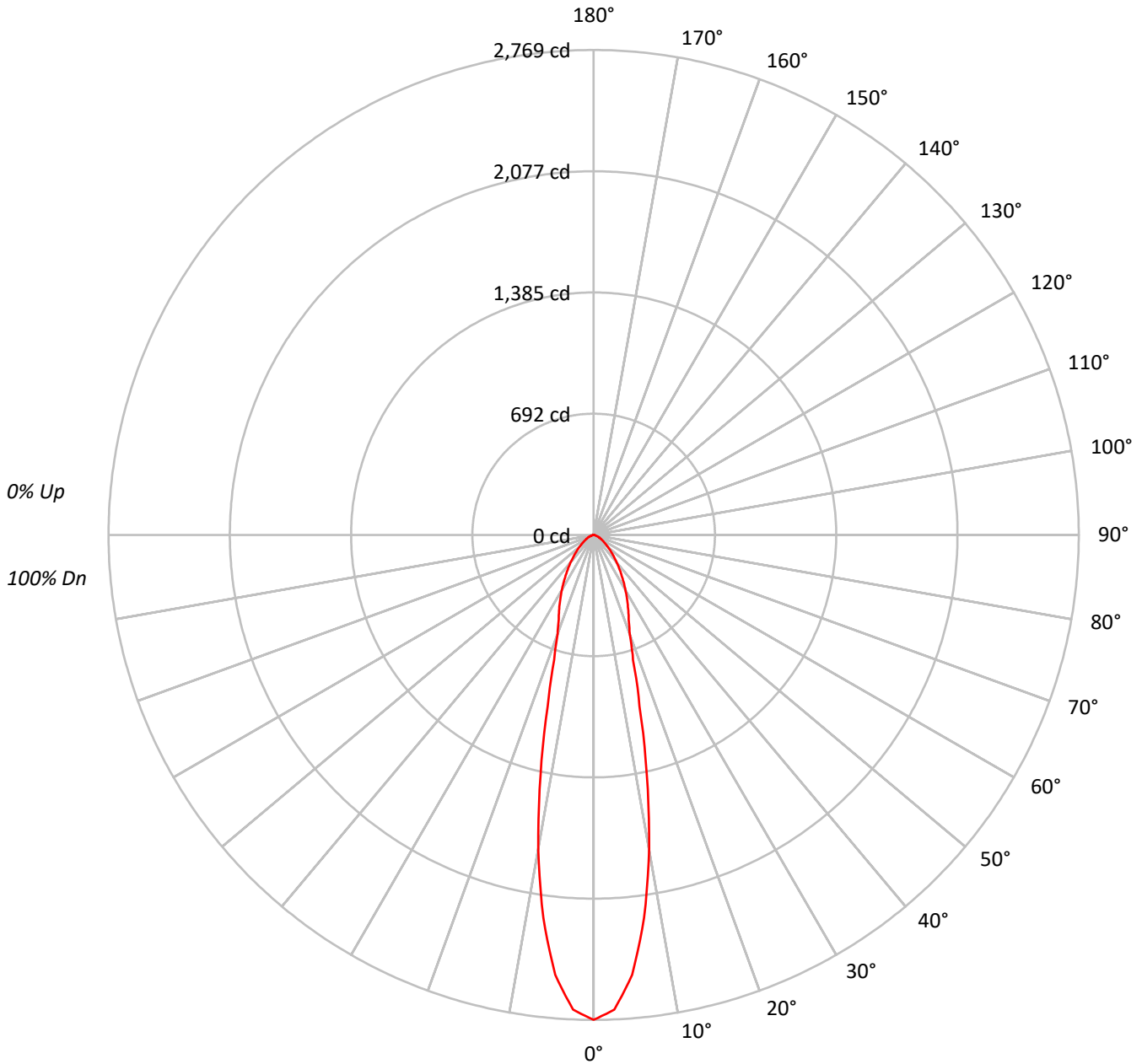
Lumens per Lamp: N/A
Luminaire Lumens: 1124.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73																			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68																			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60																			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57																			
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54																			
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	151775
5°	138708
10°	101312
15°	57458
20°	35050
25°	28127
30°	22921
35°	18384
40°	14577
45°	11404
50°	8861
55°	6977
60°	5526
65°	4540
70°	3302
75°	1970
80°	979
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11404 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	19.4
10°-20°	291.6	25.9
20°-30°	214.6	19.1
30°-40°	172.7	15.4
40°-50°	114.8	10.2
50°-60°	66.5	5.9
60°-70°	34.9	3.1
70°-80°	10.4	0.9
80°-90°	1.0	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°	723.9	64.4
0°-40°	896.7	79.8
0°-60°	1077.9	95.9
0°-90°	1124.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2769	
5°	2521	218
15°	1012	292
25°	465	215
35°	275	173
45°	147	115
55°	73	66
65°	35	35
75°	9	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2768.6
2.5°	2713.0
5°	2520.6
7.5°	2204.8
10°	1820.0
12.5°	1399.2
15°	1012.4
17.5°	748.0
20°	600.8
22.5°	522.6
25°	465.0
27.5°	412.6
30°	362.1
32.5°	316.9
35°	274.7
37.5°	237.7
40°	203.7
42.5°	172.8
45°	147.1
47.5°	124.5
50°	103.9
52.5°	87.5
55°	73.0
57.5°	60.7
60°	50.4
62.5°	42.2
65°	35.0
67.5°	28.8
70°	20.6
72.5°	13.4
75°	9.3
77.5°	5.1
80°	3.1
82.5°	2.1
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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