

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: P643001

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643001
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 - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

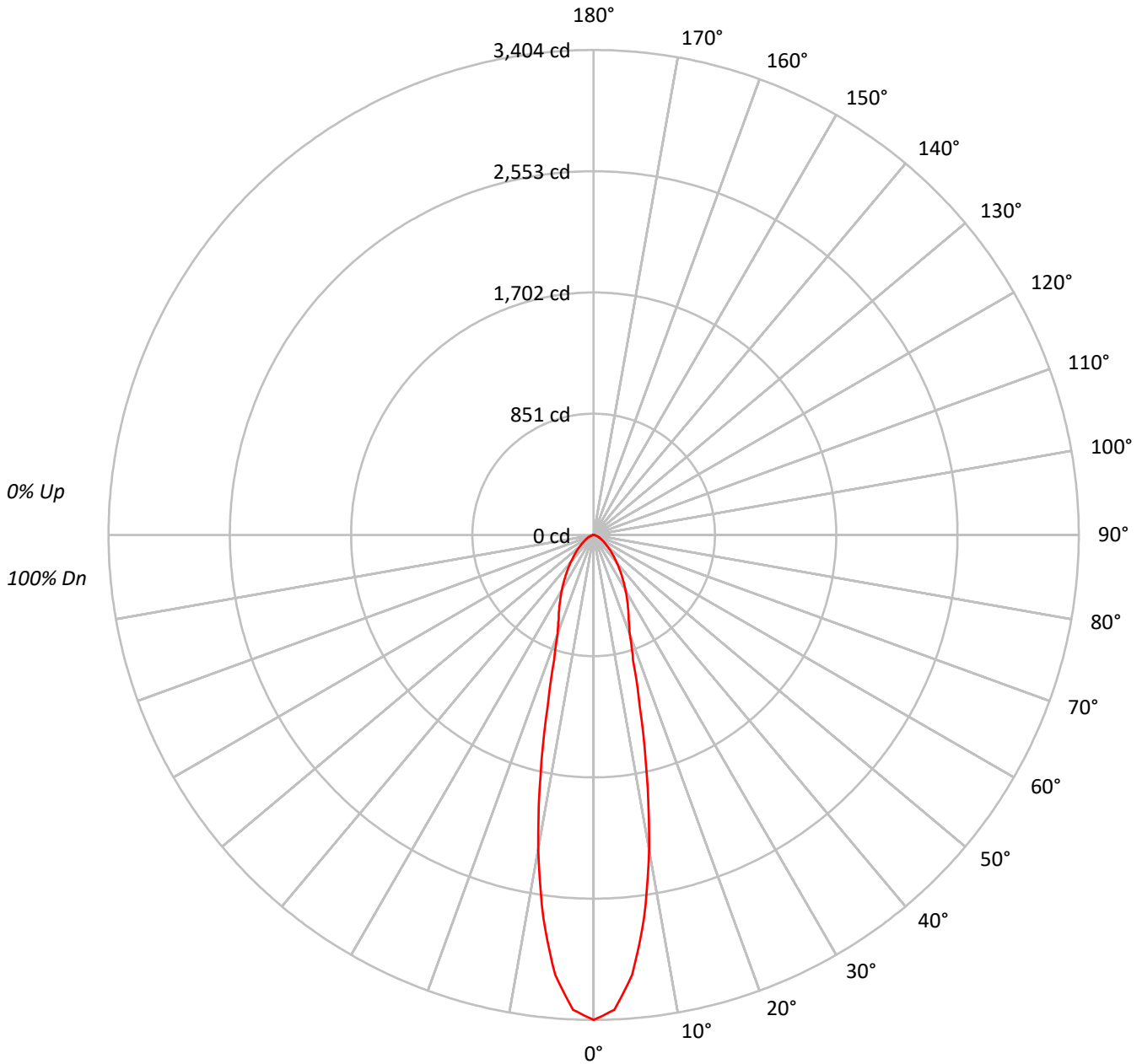
Lumens per Lamp: N/A
Luminaire Lumens: 1382.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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	82	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°	186624
5°	170559
10°	124575
15°	70647
20°	43100
25°	34587
30°	28188
35°	22607
40°	17926
45°	14025
50°	10899
55°	8583
60°	6798
65°	5578
70°	4055
75°	2415
80°	1200
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	19.4
10°-20°	358.5	25.9
20°-30°	263.9	19.1
30°-40°	212.4	15.4
40°-50°	141.1	10.2
50°-60°	81.7	5.9
60°-70°	42.9	3.1
70°-80°	12.8	0.9
80°-90°	1.2	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°	890.2	64.4
0°-40°	1102.6	79.8
0°-60°	1325.4	95.9
0°-90°	1382.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3404	
5°	3099	268
15°	1245	359
25°	572	264
35°	338	212
45°	181	141
55°	90	82
65°	43	43
75°	11	13
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3404.3
2.5°	3336.0
5°	3099.4
7.5°	2711.0
10°	2237.9
12.5°	1720.5
15°	1244.8
17.5°	919.7
20°	738.8
22.5°	642.7
25°	571.8
27.5°	507.3
30°	445.3
32.5°	389.6
35°	337.8
37.5°	292.2
40°	250.5
42.5°	212.5
45°	180.9
47.5°	153.1
50°	127.8
52.5°	107.5
55°	89.8
57.5°	74.6
60°	62.0
62.5°	51.9
65°	43.0
67.5°	35.4
70°	25.3
72.5°	16.4
75°	11.4
77.5°	6.3
80°	3.8
82.5°	2.5
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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