

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: P643029

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

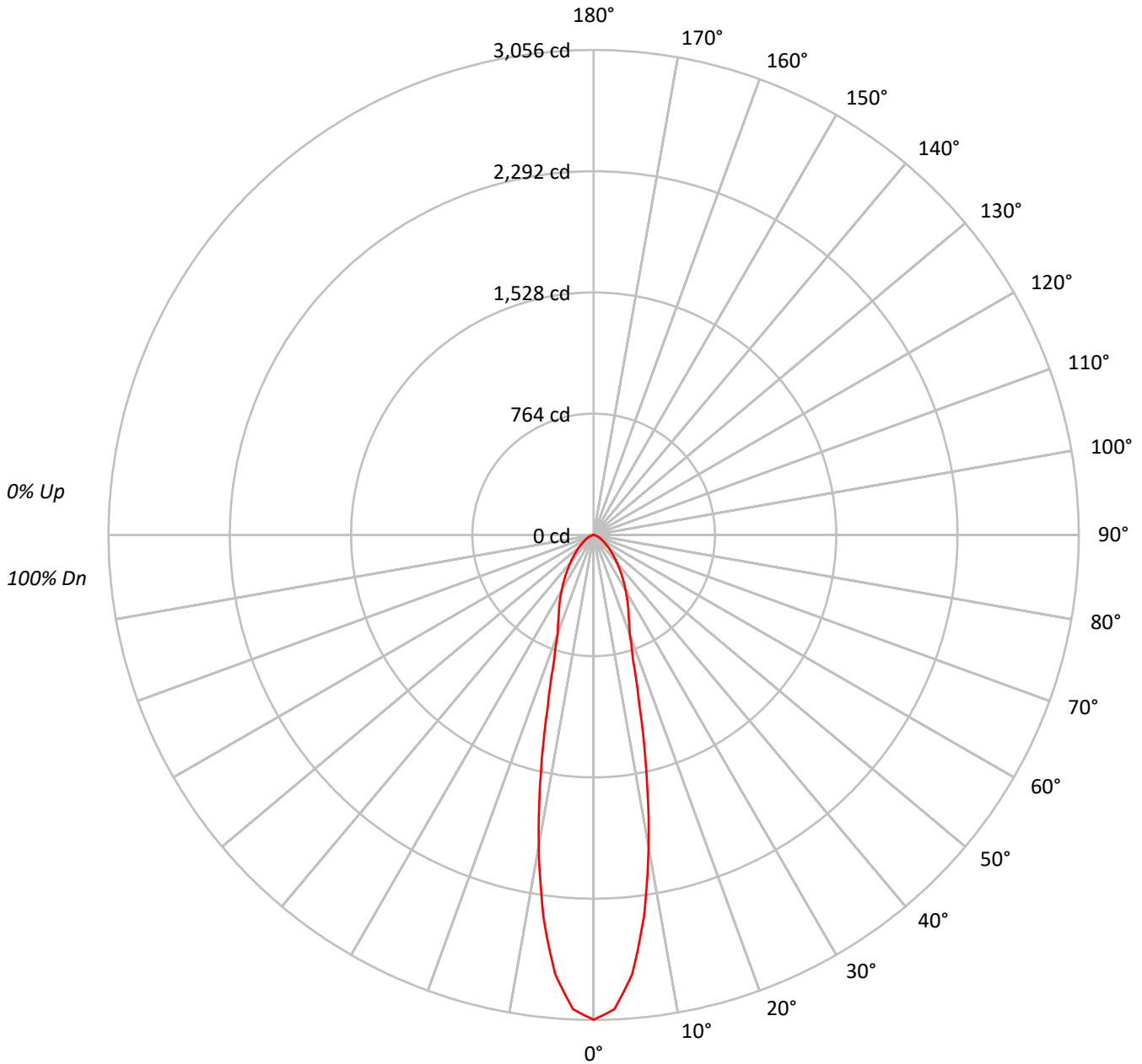
Lumens per Lamp: N/A
Luminaire Lumens: 1244.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	85	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	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64			64
7	82	73	67	63	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60
8	79	69	63	59	78	69	63	59	67	62	58	66	62	58	65	61	58	57			57
9	75	66	60	56	74	65	60	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	56	52	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167514
5°	152960
10°	111014
15°	63201
20°	38713
25°	31205
30°	25466
35°	20458
40°	16180
45°	12777
50°	9978
55°	7818
60°	6228
65°	5007
70°	3638
75°	1927
80°	1421
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12777 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	19.3
10°-20°	320.7	25.8
20°-30°	237.7	19.1
30°-40°	191.9	15.4
40°-50°	128.4	10.3
50°-60°	74.5	6.0
60°-70°	39.0	3.1
70°-80°	11.4	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°	798.0	64.1
0°-40°	990.0	79.5
0°-60°	1192.9	95.8
0°-90°	1244.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3056	
5°	2780	240
15°	1114	321
25°	516	238
35°	306	192
45°	165	128
55°	82	75
65°	39	39
75°	9	11
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3055.7
2.5°	2992.1
5°	2779.6
7.5°	2425.0
10°	1994.3
12.5°	1536.4
15°	1113.6
17.5°	825.0
20°	663.6
22.5°	578.4
25°	515.9
27.5°	456.8
30°	402.3
32.5°	352.3
35°	305.7
37.5°	263.6
40°	226.1
42.5°	194.3
45°	164.8
47.5°	138.6
50°	117.0
52.5°	97.7
55°	81.8
57.5°	68.2
60°	56.8
62.5°	47.7
65°	38.6
67.5°	31.8
70°	22.7
72.5°	14.8
75°	9.1
77.5°	5.7
80°	4.5
82.5°	2.3
85°	1.1
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)