

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: P642879

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

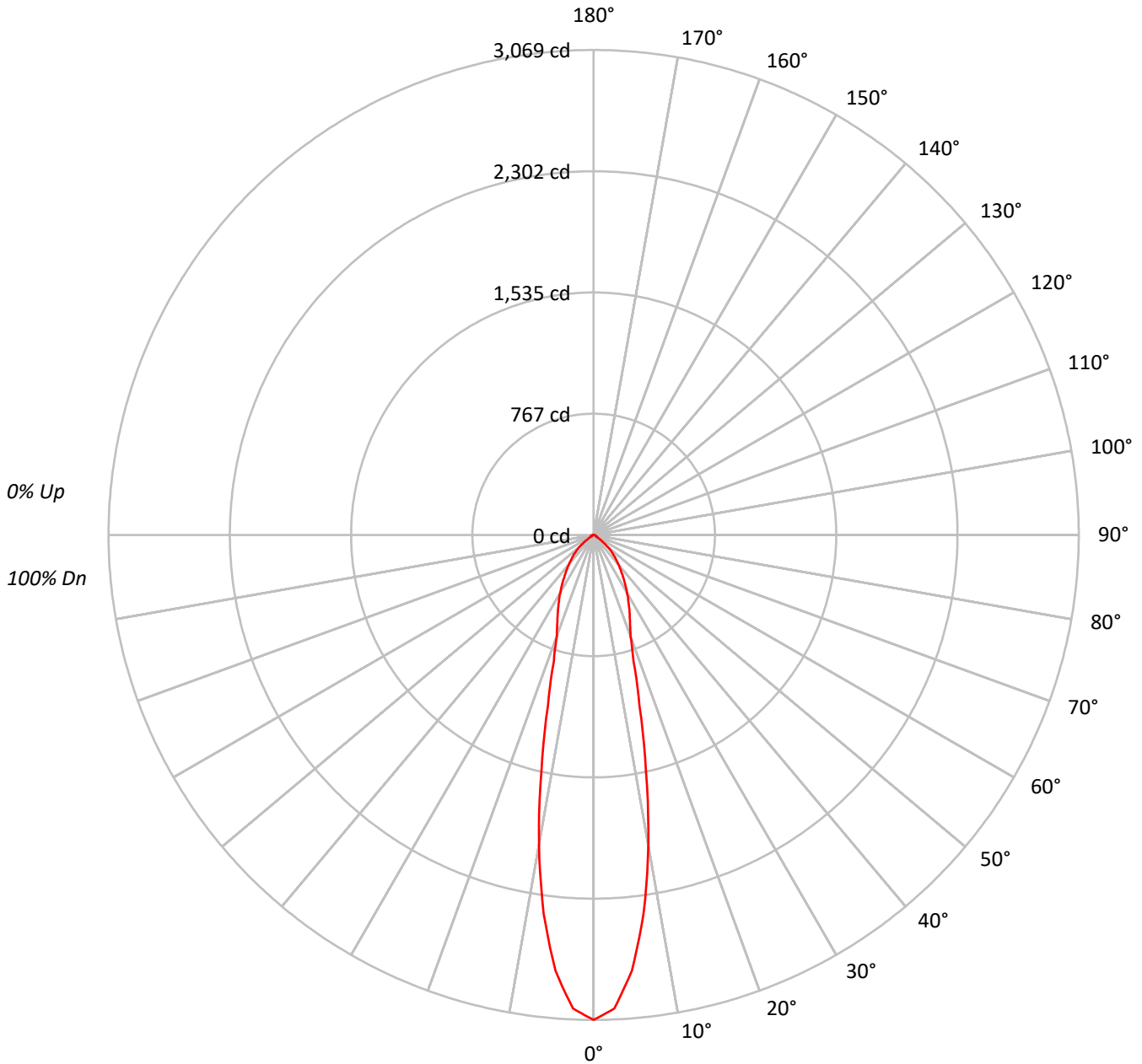
Lumens per Lamp: N/A
Luminaire Lumens: 1224.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																			
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58																			
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242278
5°	219414
10°	159788
15°	91541
20°	57217
25°	46747
30°	38558
35°	31233
40°	25072
45°	19928
50°	13411
55°	6097
60°	3410
65°	3194
70°	2631
75°	2440
80°	2591
85°	3080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19928 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	19.5
10°-20°	322.5	26.3
20°-30°	247.0	20.2
30°-40°	203.5	16.6
40°-50°	136.2	11.1
50°-60°	47.3	3.9
60°-70°	16.4	1.3
70°-80°	8.9	0.7
80°-90°	3.2	0.3
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°	808.8	66.1
0°-40°	1012.3	82.7
0°-60°	1195.8	97.7
0°-90°	1224.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3069	
5°	2769	239
15°	1120	322
25°	537	247
35°	324	204
45°	178	136
55°	44	47
65°	17	16
75°	8	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3069.1
2.5°	2999.7
5°	2768.9
7.5°	2418.7
10°	1993.4
12.5°	1528.3
15°	1120.1
17.5°	838.1
20°	681.1
22.5°	599.3
25°	536.7
27.5°	476.5
30°	423.0
32.5°	371.8
35°	324.1
37.5°	280.9
40°	243.3
42.5°	209.2
45°	178.5
47.5°	146.7
50°	109.2
52.5°	77.3
55°	44.3
57.5°	27.3
60°	21.6
62.5°	19.3
65°	17.1
67.5°	13.6
70°	11.4
72.5°	9.1
75°	8.0
77.5°	8.0
80°	5.7
82.5°	4.5
85°	3.4
87.5°	1.1
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)