

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: P642903

Luminaire Tested: ML5615LSNFL259FS1E - 692H - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 692H - 1500LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

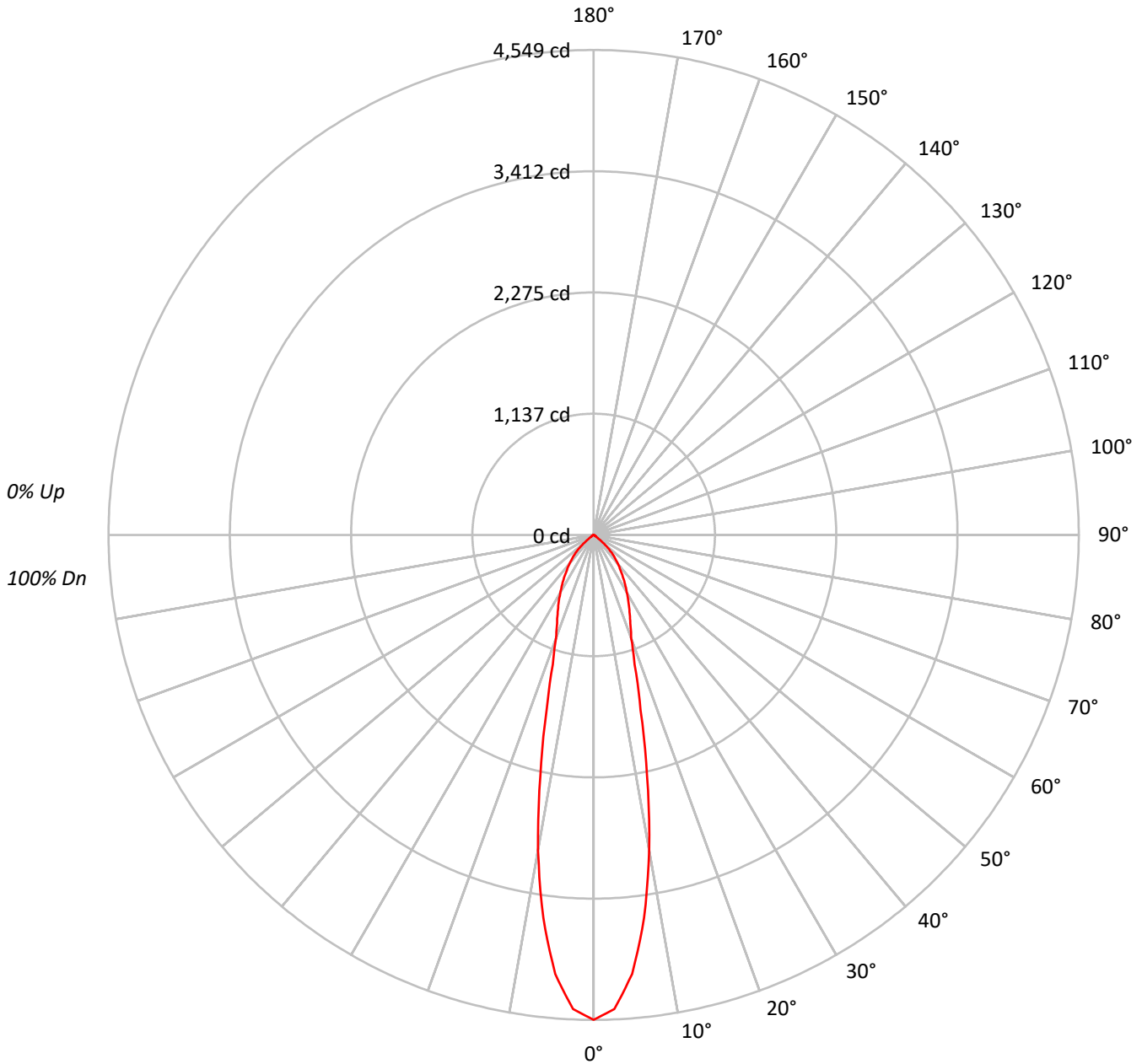
Lumens per Lamp: N/A
Luminaire Lumens: 1743.1 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64																			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61																			
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58																			
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	249355
5°	227432
10°	167126
15°	96618
20°	60013
25°	48208
30°	39424
35°	31896
40°	25169
45°	18979
50°	9808
55°	2829
60°	1798
65°	1064
70°	529
75°	339
80°	505
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18979 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	20.5
10°-20°	488.6	28.0
20°-30°	367.8	21.1
30°-40°	298.7	17.1
40°-50°	182.3	10.5
50°-60°	37.6	2.2
60°-70°	8.1	0.5
70°-80°	1.9	0.1
80°-90°	0.2	0.0
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°	1214.2	69.7
0°-40°	1513.0	86.8
0°-60°	1732.9	99.4
0°-90°	1743.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1743.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4549	
5°	4133	358
15°	1702	489
25°	797	368
35°	477	299
45°	245	182
55°	30	38
65°	8	8
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4548.6
2.5°	4451.7
5°	4132.9
7.5°	3623.4
10°	3002.3
12.5°	2312.1
15°	1702.4
17.5°	1275.2
20°	1028.7
22.5°	895.6
25°	797.0
27.5°	706.6
30°	622.8
32.5°	548.9
35°	476.6
37.5°	410.8
40°	351.7
42.5°	299.1
45°	244.8
47.5°	177.5
50°	115.0
52.5°	54.2
55°	29.6
57.5°	21.4
60°	16.4
62.5°	11.5
65°	8.2
67.5°	3.3
70°	3.3
72.5°	1.6
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
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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(END OF REPORT)