

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: P642994

Luminaire Tested: ML5615LSNFL259FS1E - 693WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 693WB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

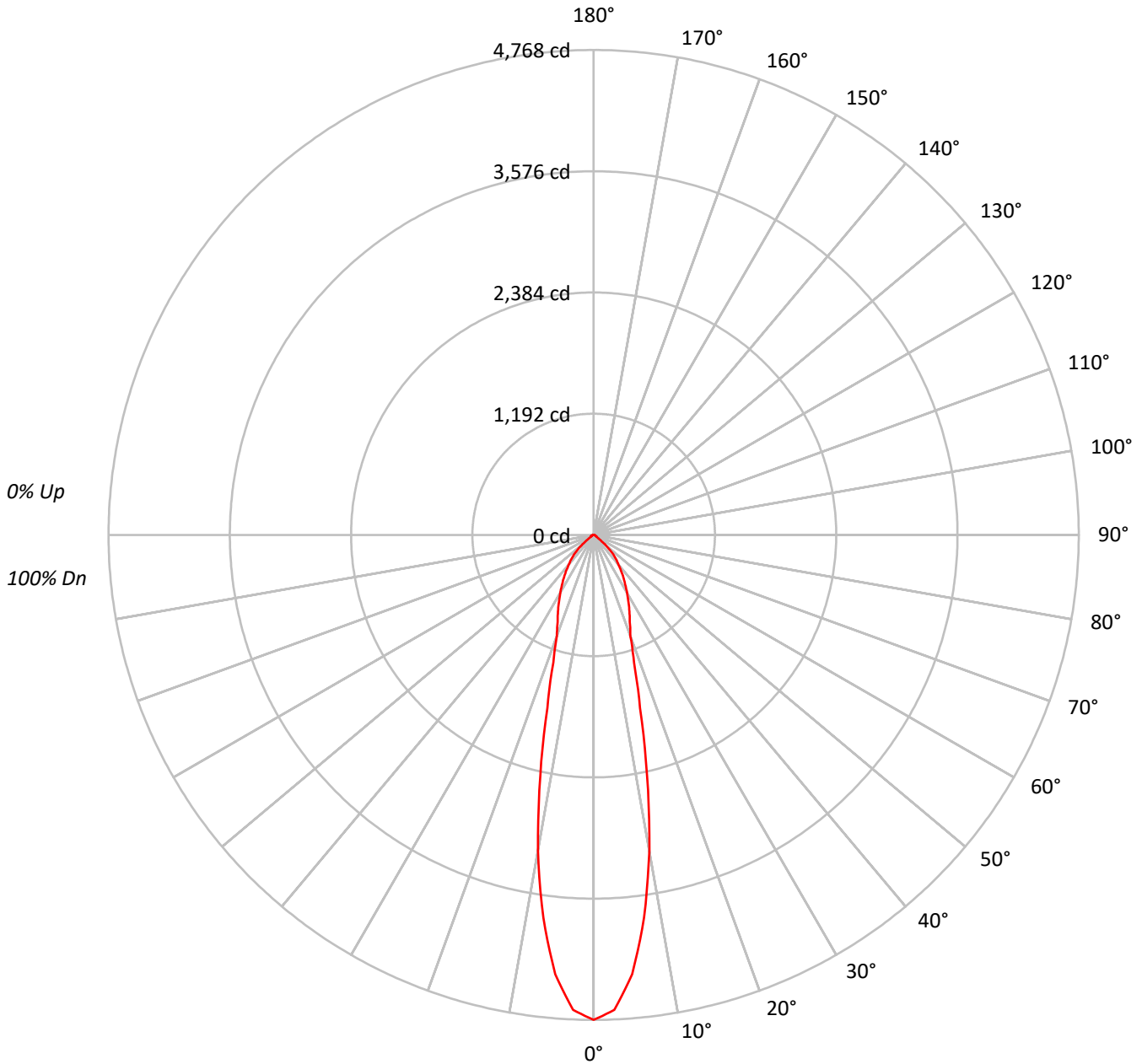
Lumens per Lamp: N/A
Luminaire Lumens: 1886.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	64	61	68	64	61	68	63	60	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	261377
5°	238542
10°	175364
15°	99932
20°	61570
25°	50259
30°	41405
35°	33957
40°	27201
45°	21382
50°	12213
55°	4396
60°	3684
65°	3204
70°	2837
75°	2987
80°	3346
85°	3334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.1	19.9
10°-20°	507.7	26.9
20°-30°	382.5	20.3
30°-40°	317.5	16.8
40°-50°	204.6	10.8
50°-60°	54.3	2.9
60°-70°	24.2	1.3
70°-80°	14.9	0.8
80°-90°	5.3	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°	1265.4	67.1
0°-40°	1582.8	83.9
0°-60°	1841.7	97.6
0°-90°	1886.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4768	
5°	4335	375
15°	1761	508
25°	831	382
35°	507	317
45°	276	205
55°	46	54
65°	25	24
75°	14	15
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4767.9
2.5°	4674.2
5°	4334.8
7.5°	3795.6
10°	3150.3
12.5°	2420.2
15°	1760.8
17.5°	1317.0
20°	1055.4
22.5°	926.4
25°	830.9
27.5°	739.0
30°	654.1
32.5°	578.1
35°	507.4
37.5°	440.2
40°	380.1
42.5°	327.1
45°	275.8
47.5°	205.1
50°	143.2
52.5°	74.2
55°	46.0
57.5°	37.1
60°	33.6
62.5°	28.3
65°	24.7
67.5°	19.4
70°	17.7
72.5°	15.9
75°	14.1
77.5°	12.4
80°	10.6
82.5°	7.1
85°	5.3
87.5°	1.8
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)