

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: P642989

Luminaire Tested: ML5615LSNFL259FS1E - 693WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642989
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 - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

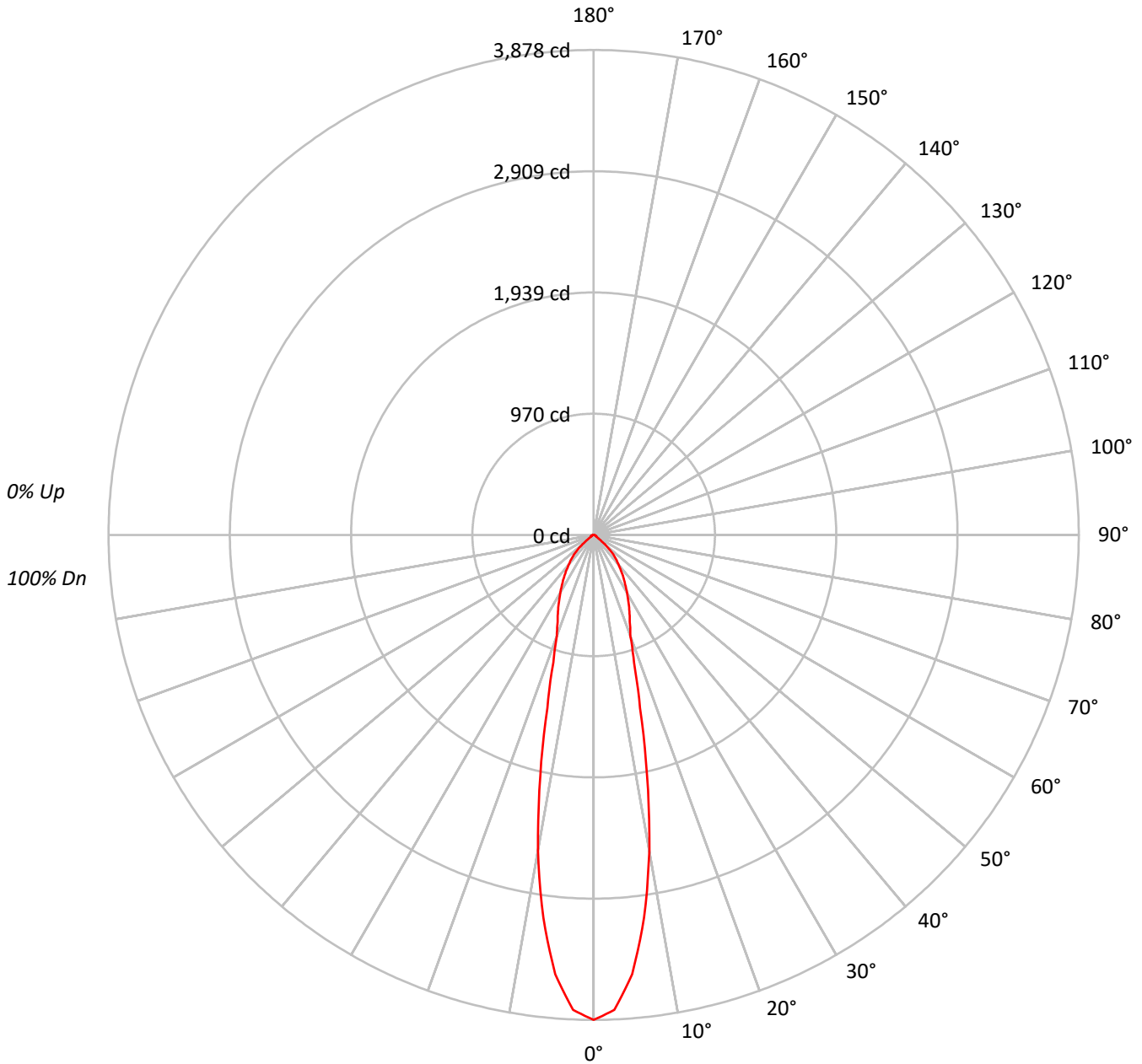
Lumens per Lamp: N/A
Luminaire Lumens: 1534.1 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	212598
5°	194023
10°	142638
15°	81283
20°	50084
25°	40877
30°	33676
35°	27619
40°	22127
45°	17389
50°	9936
55°	3575
60°	2993
65°	2607
70°	2308
75°	2436
80°	2715
85°	2705

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	19.9
10°-20°	413.0	26.9
20°-30°	311.1	20.3
30°-40°	258.2	16.8
40°-50°	166.4	10.8
50°-60°	44.2	2.9
60°-70°	19.7	1.3
70°-80°	12.1	0.8
80°-90°	4.3	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°	1029.2	67.1
0°-40°	1287.4	83.9
0°-60°	1498.0	97.6
0°-90°	1534.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3878	
5°	3526	305
15°	1432	413
25°	676	311
35°	413	258
45°	224	166
55°	37	44
65°	20	20
75°	12	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3878.1
2.5°	3801.9
5°	3525.8
7.5°	3087.3
10°	2562.4
12.5°	1968.5
15°	1432.2
17.5°	1071.3
20°	858.5
22.5°	753.5
25°	675.8
27.5°	601.1
30°	532.0
32.5°	470.2
35°	412.7
37.5°	358.0
40°	309.2
42.5°	266.0
45°	224.3
47.5°	166.8
50°	116.5
52.5°	60.4
55°	37.4
57.5°	30.2
60°	27.3
62.5°	23.0
65°	20.1
67.5°	15.8
70°	14.4
72.5°	12.9
75°	11.5
77.5°	10.1
80°	8.6
82.5°	5.8
85°	4.3
87.5°	1.4
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)