

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: P886086

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMWB-468LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMWB-468LM-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

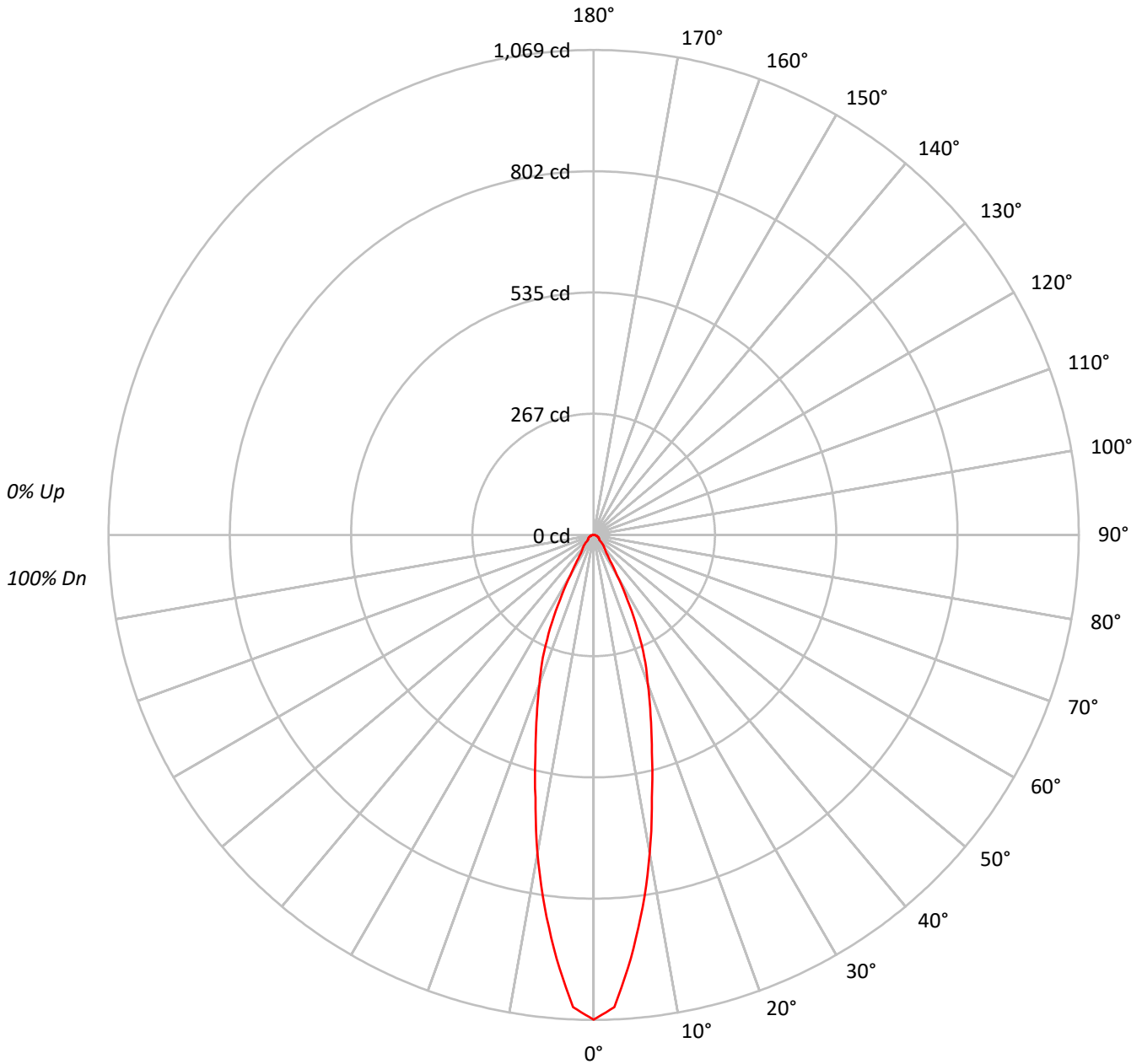
Lumens per Lamp: N/A  
Luminaire Lumens: 409.2 lumens  
Efficiency: N/A  
Efficacy: 51.1 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): 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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69																			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66																			
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63																			
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	58																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	527225
5°	464162
10°	356906
15°	253042
20°	183398
25°	123303
30°	58110
35°	29694
40°	23379
45°	18700
50°	12588
55°	12645
60°	12828
65°	12141
70°	11252
75°	11628
80°	9944
85°	9624

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18700 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	20.2
10°-20°	139.0	34.0
20°-30°	101.3	24.8
30°-40°	35.0	8.5
40°-50°	19.8	4.8
50°-60°	13.2	3.2
60°-70°	10.3	2.5
70°-80°	6.3	1.5
80°-90°	1.9	0.5
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°	322.8	78.9
0°-40°	357.8	87.4
0°-60°	390.7	95.5
0°-90°	409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1069	
5°	937	82
15°	495	139
25°	226	101
35°	49	35
45°	27	20
55°	15	13
65°	10	10
75°	6	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1068.6
2.5°	1041.8
5°	937.2
7.5°	827.4
10°	712.4
12.5°	593.1
15°	495.4
17.5°	415.8
20°	349.3
22.5°	292.2
25°	226.5
27.5°	160.8
30°	102.0
32.5°	67.4
35°	49.3
37.5°	41.5
40°	36.3
42.5°	32.0
45°	26.8
47.5°	18.2
50°	16.4
52.5°	15.6
55°	14.7
57.5°	13.8
60°	13.0
62.5°	11.2
65°	10.4
67.5°	9.5
70°	7.8
72.5°	6.9
75°	6.1
77.5°	5.2
80°	3.5
82.5°	2.6
85°	1.7
87.5°	0.9
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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Scaled Data Report



(END OF REPORT)