

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: P886143

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2RDMW-468LM-4000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-77)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2RDMW-468LM-4000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 554.2 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

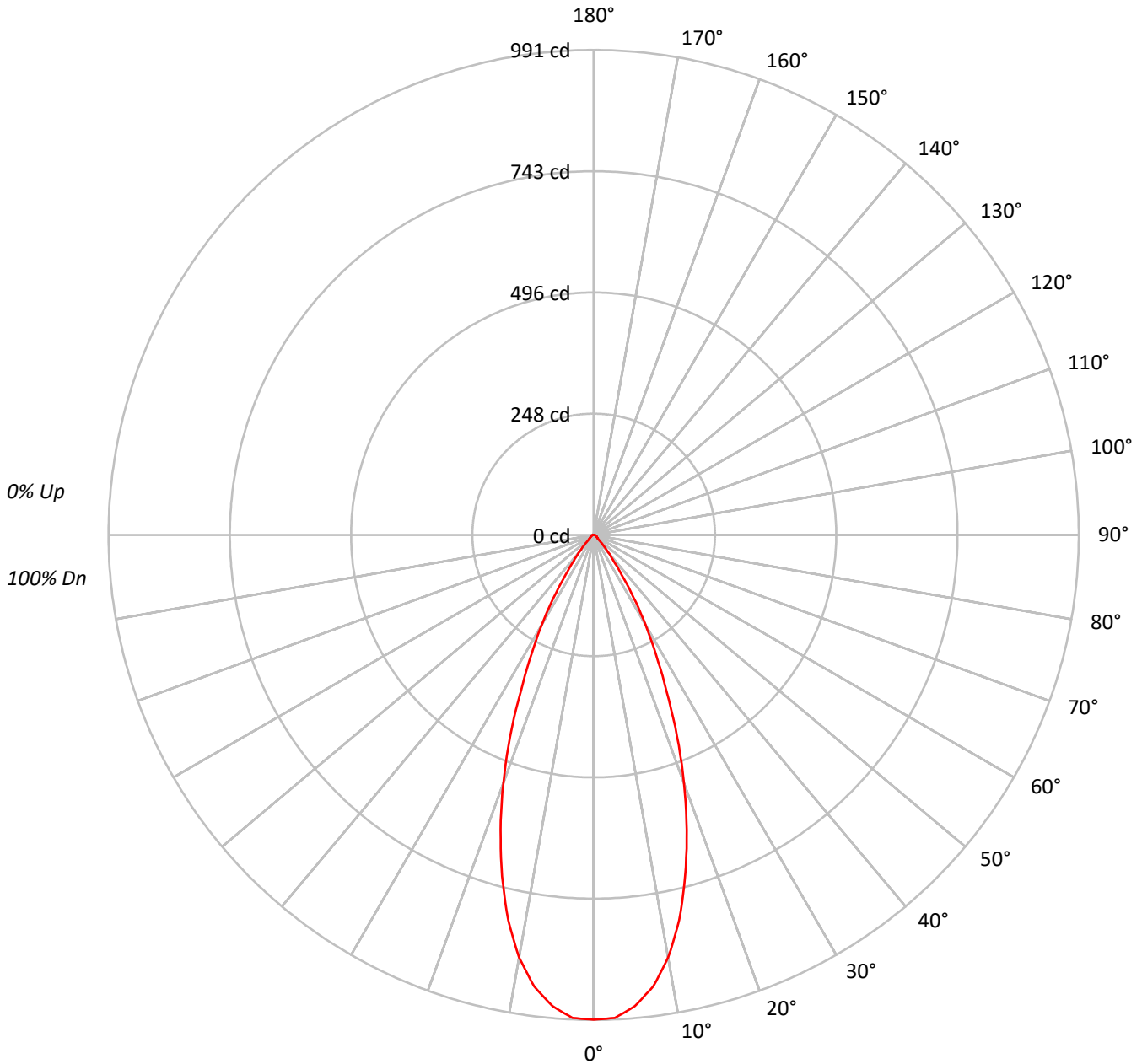
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	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°	488742
5°	478673
10°	439219
15°	368837
20°	283366
25°	191514
30°	120265
35°	60231
40°	29820
45°	12908
50°	7829
55°	6365
60°	6414
65°	6538
70°	6636
75°	7053
80°	7956
85°	5095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12908 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	16.1
10°-20°	198.4	35.8
20°-30°	163.0	29.4
30°-40°	68.2	12.3
40°-50°	16.9	3.1
50°-60°	7.2	1.3
60°-70°	5.8	1.0
70°-80°	3.9	0.7
80°-90°	1.4	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°	450.8	81.3
0°-40°	519.0	93.6
0°-60°	543.1	98.0
0°-90°	554.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	991	
5°	966	89
15°	722	198
25°	352	163
35°	100	68
45°	18	17
55°	7	7
65°	6	6
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	990.6
2.5°	987.8
5°	966.5
7.5°	930.4
10°	876.7
12.5°	806.4
15°	722.1
17.5°	632.3
20°	539.7
22.5°	445.3
25°	351.8
27.5°	275.0
30°	211.1
32.5°	151.8
35°	100.0
37.5°	66.7
40°	46.3
42.5°	30.6
45°	18.5
47.5°	12.0
50°	10.2
52.5°	9.3
55°	7.4
57.5°	7.4
60°	6.5
62.5°	6.5
65°	5.6
67.5°	5.6
70°	4.6
72.5°	4.6
75°	3.7
77.5°	2.8
80°	2.8
82.5°	1.9
85°	0.9
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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(END OF REPORT)