

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: P886138

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2RDMBB-468LM-4000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2RDMBB-468LM-4000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

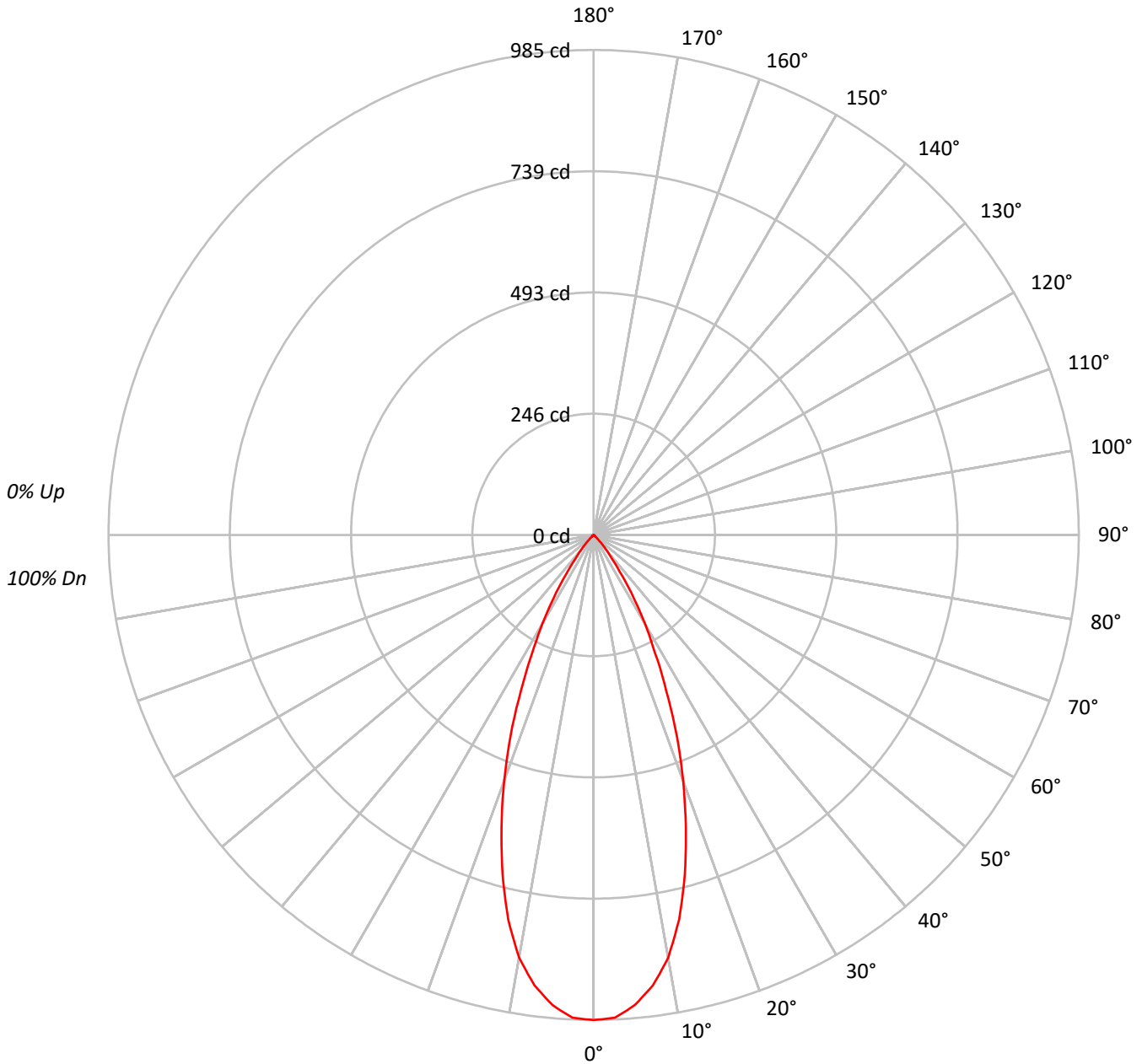
Lumens per Lamp: N/A  
Luminaire Lumens: 524.7 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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





TEST NUMBER: P886138

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2RDMMB-468LM-4000K

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	110	108	106	106	104	103		102	101	100		98	98	97	95
2	109	105	102	99	107	103	100	97	100	98	95		97	95	93		95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	84	79	76	91	84	79	75	82	78	75		81	77	74		80	76	74	73
7	88	80	75	71	87	80	75	71	79	74	71		77	73	71		76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67		74	70	67		73	70	67	66
9	82	73	68	65	81	73	68	64	72	67	64		71	67	64		70	67	64	63
10	78	70	65	62	78	70	65	61	69	64	61		68	64	61		67	64	61	60

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

	0°
0°	486176
5°	474760
10°	436664
15°	364853
20°	278851
25°	189881
30°	118100
35°	59086
40°	25634
45°	9071
50°	2840
55°	774
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9071 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	16.9
10°-20°	196.1	37.4
20°-30°	160.7	30.6
30°-40°	66.0	12.6
40°-50°	12.1	2.3
50°-60°	1.0	0.2
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	445.6	84.9
0°-40°	511.6	97.5
0°-60°	524.7	100.0
0°-90°	524.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	985	
5°	959	89
15°	714	196
25°	349	161
35°	98	66
45°	13	12
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	985.4
2.5°	981.7
5°	958.6
7.5°	922.5
10°	871.6
12.5°	800.4
15°	714.3
17.5°	621.8
20°	531.1
22.5°	440.4
25°	348.8
27.5°	269.3
30°	207.3
32.5°	150.8
35°	98.1
37.5°	61.1
40°	39.8
42.5°	24.1
45°	13.0
47.5°	5.6
50°	3.7
52.5°	1.9
55°	0.9
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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)