

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: P886399

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2RDMWB-550LM-5000K

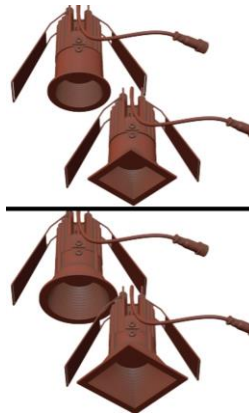
Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2RDMWB-550LM-5000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

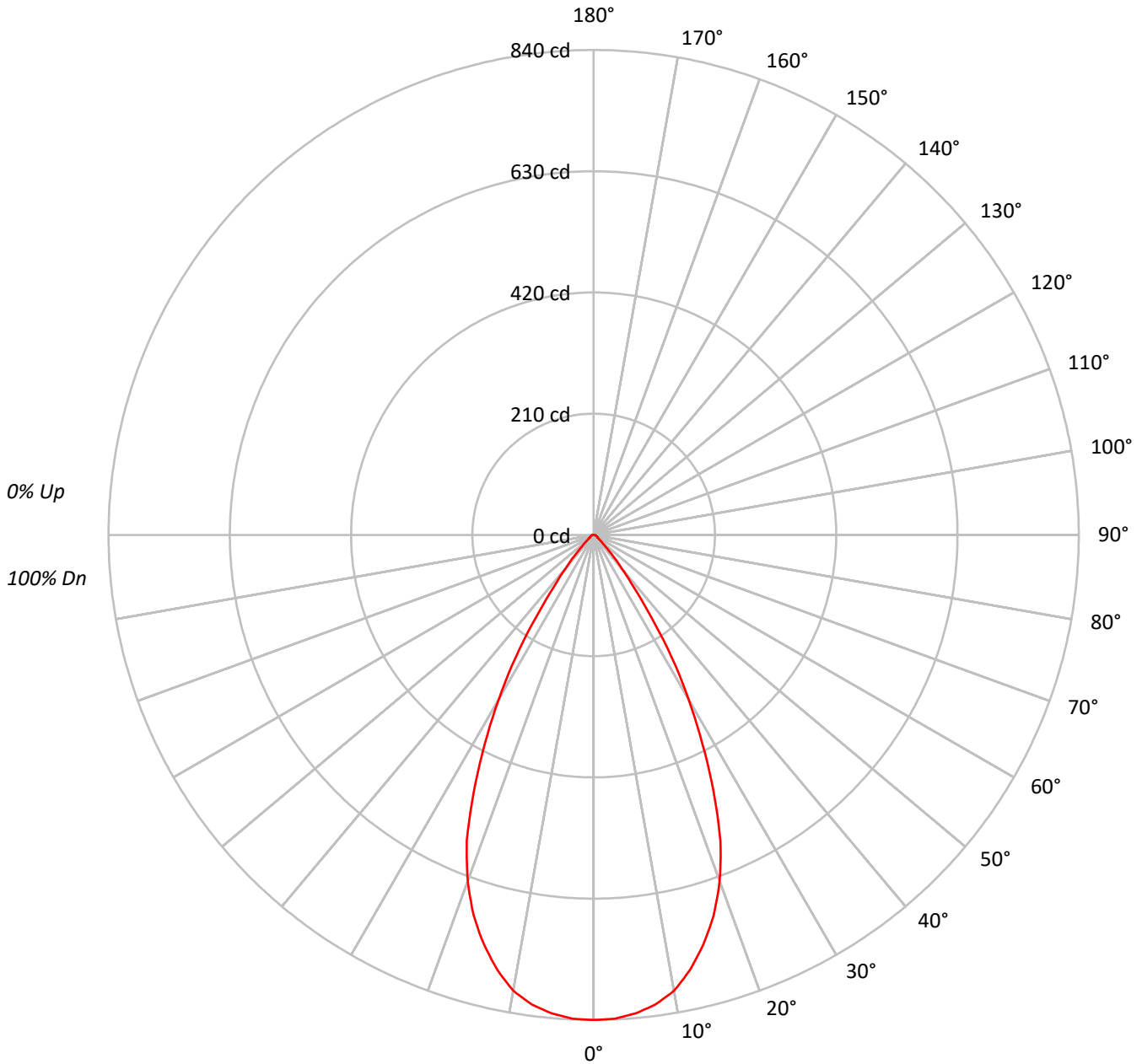
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 665.6 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.82  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.9  
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
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	109	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87		
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76		
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71		
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67		
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63		
8	81	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59		
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56		
10	73	64	58	55	73	64	58	55	63	58	54	62	58	54	61	57	54	53		

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

	0°
0°	414439
5°	412010
10°	401644
15°	375069
20°	334925
25°	267565
30°	187319
35°	104259
40°	48627
45°	21909
50°	11590
55°	8000
60°	6907
65°	6771
70°	6636
75°	6672
80°	6535
85°	6793

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21909 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	11.8
10°-20°	204.4	30.7
20°-30°	222.1	33.4
30°-40°	112.8	16.9
40°-50°	27.9	4.2
50°-60°	8.7	1.3
60°-70°	6.0	0.9
70°-80°	4.0	0.6
80°-90°	1.3	0.2
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°	504.9	75.9
0°-40°	617.7	92.8
0°-60°	654.3	98.3
0°-90°	665.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	840	
5°	832	78
15°	734	204
25°	492	222
35°	173	113
45°	31	28
55°	9	9
65°	6	6
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	840.0
2.5°	838.9
5°	831.9
7.5°	820.3
10°	801.7
12.5°	771.5
15°	734.3
17.5°	691.3
20°	637.9
22.5°	574.0
25°	491.5
27.5°	407.8
30°	328.8
32.5°	252.1
35°	173.1
37.5°	111.5
40°	75.5
42.5°	50.0
45°	31.4
47.5°	20.9
50°	15.1
52.5°	11.6
55°	9.3
57.5°	7.0
60°	7.0
62.5°	7.0
65°	5.8
67.5°	5.8
70°	4.6
72.5°	4.6
75°	3.5
77.5°	3.5
80°	2.3
82.5°	2.3
85°	1.2
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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Scaled Data Report



(END OF REPORT)