

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: P886398

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2RDMWB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886398
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-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

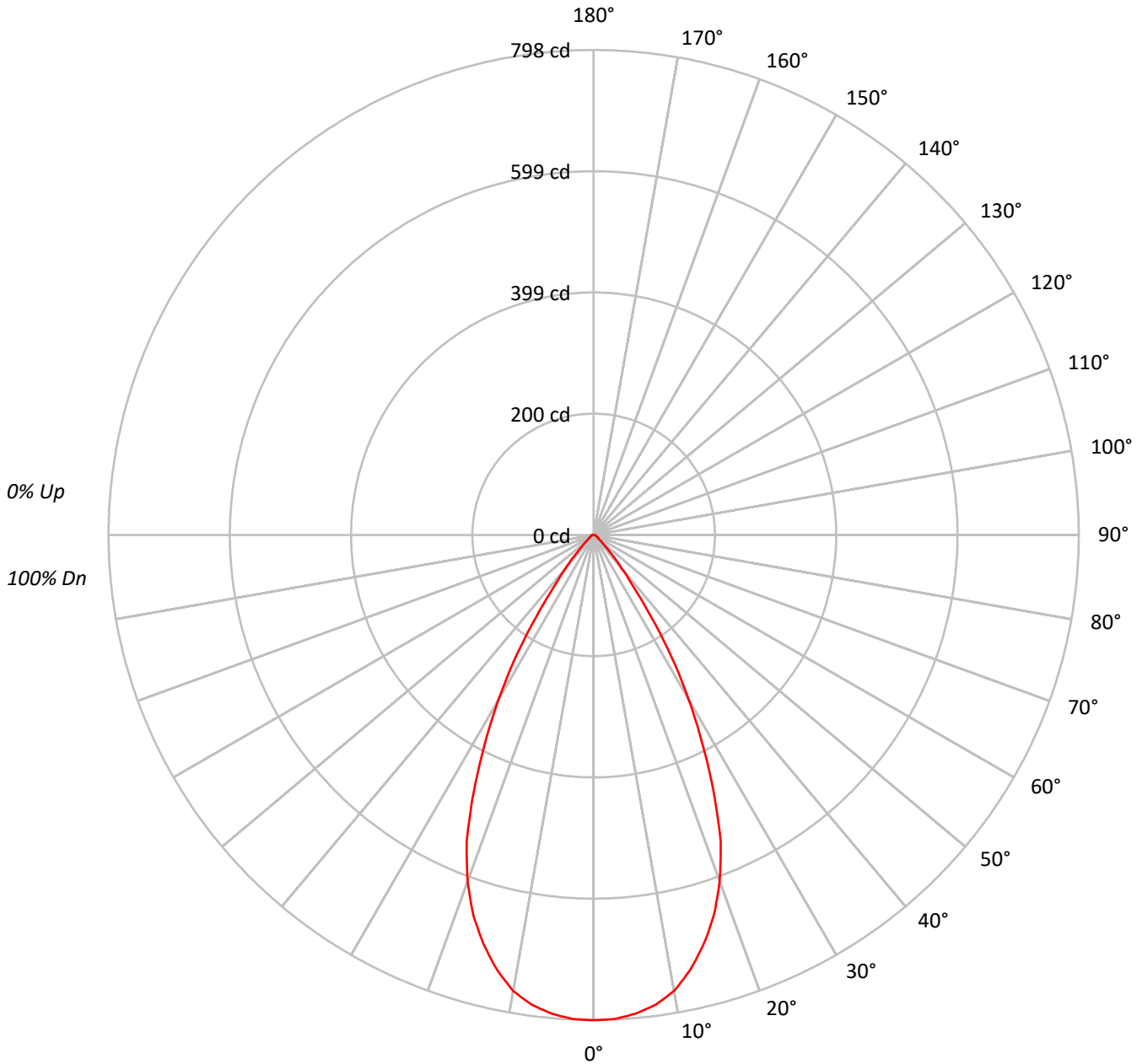
Lumens per Lamp: N/A
Luminaire Lumens: 632.7 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.82
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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	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°	393964
5°	391655
10°	381755
15°	356527
20°	318334
25°	254336
30°	178033
35°	99139
40°	46244
45°	20793
50°	11053
55°	7570
60°	6513
65°	6421
70°	6347
75°	6291
80°	6251
85°	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20793 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	11.8
10°-20°	194.3	30.7
20°-30°	211.1	33.4
30°-40°	107.2	17.0
40°-50°	26.6	4.2
50°-60°	8.2	1.3
60°-70°	5.7	0.9
70°-80°	3.8	0.6
80°-90°	1.2	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°	480.0	75.9
0°-40°	587.2	92.8
0°-60°	622.0	98.3
0°-90°	632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	798	
5°	791	75
15°	698	194
25°	467	211
35°	165	107
45°	30	27
55°	9	8
65°	6	6
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	798.5
2.5°	797.4
5°	790.8
7.5°	779.7
10°	762.0
12.5°	733.3
15°	698.0
17.5°	657.1
20°	606.3
22.5°	545.6
25°	467.2
27.5°	387.6
30°	312.5
32.5°	239.7
35°	164.6
37.5°	106.0
40°	71.8
42.5°	47.5
45°	29.8
47.5°	19.9
50°	14.4
52.5°	11.0
55°	8.8
57.5°	6.6
60°	6.6
62.5°	6.6
65°	5.5
67.5°	5.5
70°	4.4
72.5°	4.4
75°	3.3
77.5°	3.3
80°	2.2
82.5°	2.2
85°	1.1
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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