

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: P886278

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMWB-550LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886278
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: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMWB-550LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

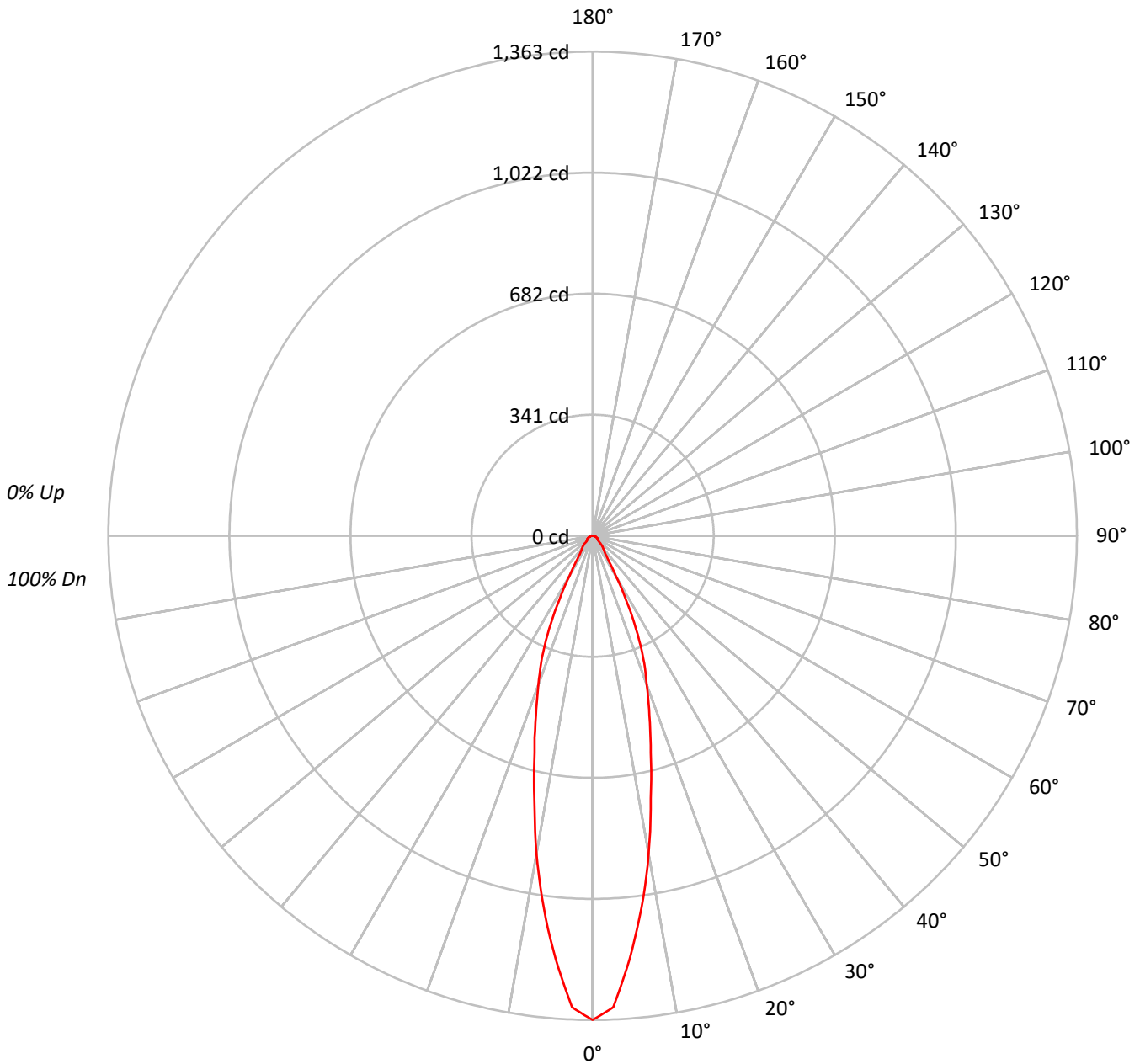
Lumens per Lamp: N/A
Luminaire Lumens: 521.8 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	672427
5°	591989
10°	455200
15°	322713
20°	233907
25°	157273
30°	74119
35°	37885
40°	29820
45°	23863
50°	16119
55°	16085
60°	16282
65°	15410
70°	14281
75°	14678
80°	12502
85°	12454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	20.2
10°-20°	177.3	34.0
20°-30°	129.2	24.8
30°-40°	44.6	8.5
40°-50°	25.2	4.8
50°-60°	16.7	3.2
60°-70°	13.1	2.5
70°-80°	8.0	1.5
80°-90°	2.4	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°	411.8	78.9
0°-40°	456.4	87.5
0°-60°	498.3	95.5
0°-90°	521.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1363	
5°	1195	105
15°	632	177
25°	289	129
35°	63	45
45°	34	25
55°	19	17
65°	13	13
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1362.9
2.5°	1328.8
5°	1195.3
7.5°	1055.3
10°	908.6
12.5°	756.5
15°	631.8
17.5°	530.4
20°	445.5
22.5°	372.7
25°	288.9
27.5°	205.1
30°	130.1
32.5°	86.0
35°	62.9
37.5°	52.9
40°	46.3
42.5°	40.8
45°	34.2
47.5°	23.2
50°	21.0
52.5°	19.8
55°	18.7
57.5°	17.6
60°	16.5
62.5°	14.3
65°	13.2
67.5°	12.1
70°	9.9
72.5°	8.8
75°	7.7
77.5°	6.6
80°	4.4
82.5°	3.3
85°	2.2
87.5°	1.1
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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