

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: P886286

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL B-550LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-75)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL B-550LM-3000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

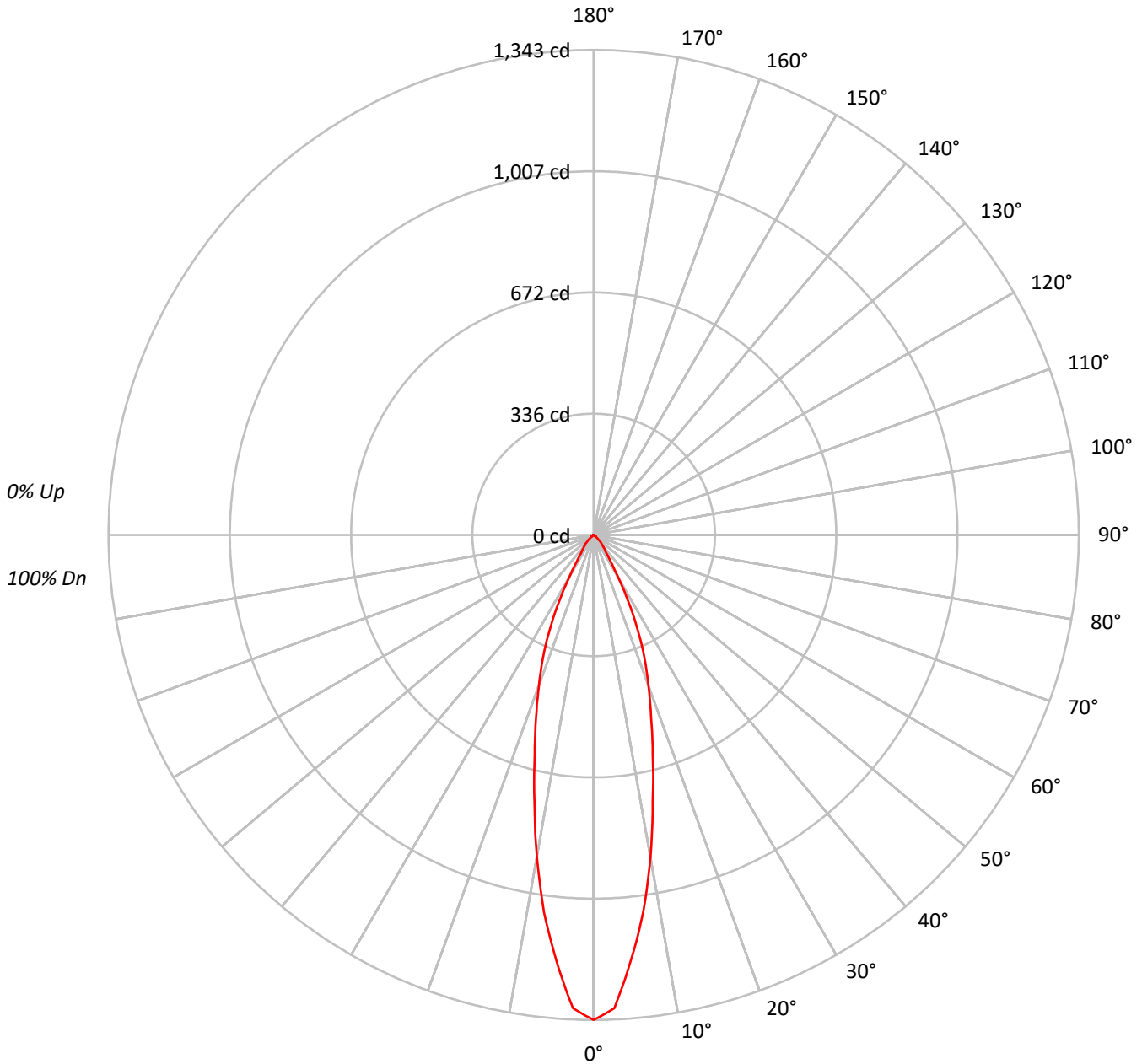
Lumens per Lamp: N/A
Luminaire Lumens: 479.8 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (A_{in}): 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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95																			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90																			
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	85	80	76	83	79	76	82	78	75	81	77	75	74																			
7	89	81	76	73	88	81	76	73	80	75	72	78	75	72	77	74	71	70																			
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67																			
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64																			
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	662707
5°	585947
10°	453447
15°	321947
20°	232174
25°	155803
30°	75942
35°	36741
40°	25312
45°	16606
50°	6371
55°	4473
60°	4046
65°	2452
70°	3029
75°	1906
80°	2841
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16606 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	21.8
10°-20°	176.9	36.9
20°-30°	128.5	26.8
30°-40°	43.3	9.0
40°-50°	17.7	3.7
50°-60°	5.0	1.1
60°-70°	2.6	0.5
70°-80°	1.2	0.3
80°-90°	0.1	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°	409.9	85.4
0°-40°	453.2	94.5
0°-60°	475.9	99.2
0°-90°	479.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1343	
5°	1183	105
15°	630	177
25°	286	129
35°	61	43
45°	24	18
55°	5	5
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1343.2
2.5°	1312.2
5°	1183.1
7.5°	1052.9
10°	905.1
12.5°	756.3
15°	630.3
17.5°	529.0
20°	442.2
22.5°	366.8
25°	286.2
27.5°	206.6
30°	133.3
32.5°	86.8
35°	61.0
37.5°	48.6
40°	39.3
42.5°	32.0
45°	23.8
47.5°	13.4
50°	8.3
52.5°	7.2
55°	5.2
57.5°	4.1
60°	4.1
62.5°	3.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
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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