

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: P886273

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

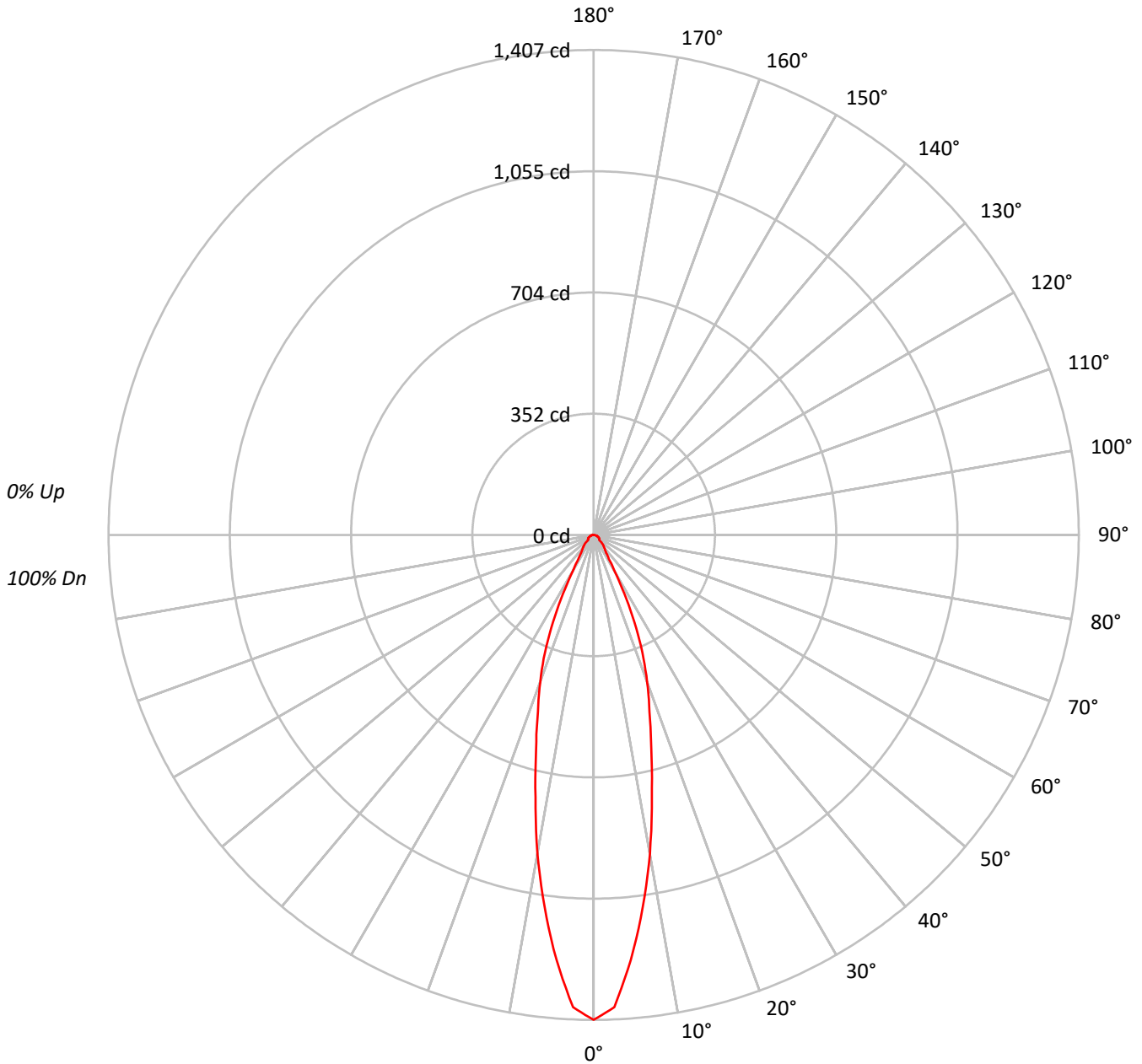
Lumens per Lamp: N/A
Luminaire Lumens: 528.7 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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				100															
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87				87															
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81															
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77				77															
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73				73															
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69				69															
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66				66															
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63				63															
9	80	71	66	62	79	71	65	62	70	65	62	69	65	61	68	64	61	60				60															
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58				58															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	694086
5°	613038
10°	470230
15°	329405
20°	237687
25°	151502
30°	69219
35°	37885
40°	30593
45°	23863
50°	16119
55°	17118
60°	17466
65°	16811
70°	15868
75°	16775
80°	15627
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°	108.7	20.6
10°-20°	181.3	34.3
20°-30°	125.8	23.8
30°-40°	43.7	8.3
40°-50°	25.5	4.8
50°-60°	17.7	3.3
60°-70°	14.2	2.7
70°-80°	8.9	1.7
80°-90°	2.8	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°	415.9	78.7
0°-40°	459.5	86.9
0°-60°	502.8	95.1
0°-90°	528.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1407	
5°	1238	109
15°	645	181
25°	278	126
35°	63	44
45°	34	26
55°	20	18
65°	14	14
75°	9	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1406.8
2.5°	1371.4
5°	1237.8
7.5°	1089.9
10°	938.6
12.5°	778.5
15°	644.9
17.5°	537.8
20°	452.7
22.5°	369.9
25°	278.3
27.5°	192.1
30°	121.5
32.5°	81.7
35°	62.9
37.5°	54.1
40°	47.5
42.5°	42.0
45°	34.2
47.5°	23.2
50°	21.0
52.5°	21.0
55°	19.9
57.5°	18.8
60°	17.7
62.5°	15.5
65°	14.4
67.5°	13.3
70°	11.0
72.5°	9.9
75°	8.8
77.5°	6.6
80°	5.5
82.5°	4.4
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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