

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: P886271

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886271
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-3000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

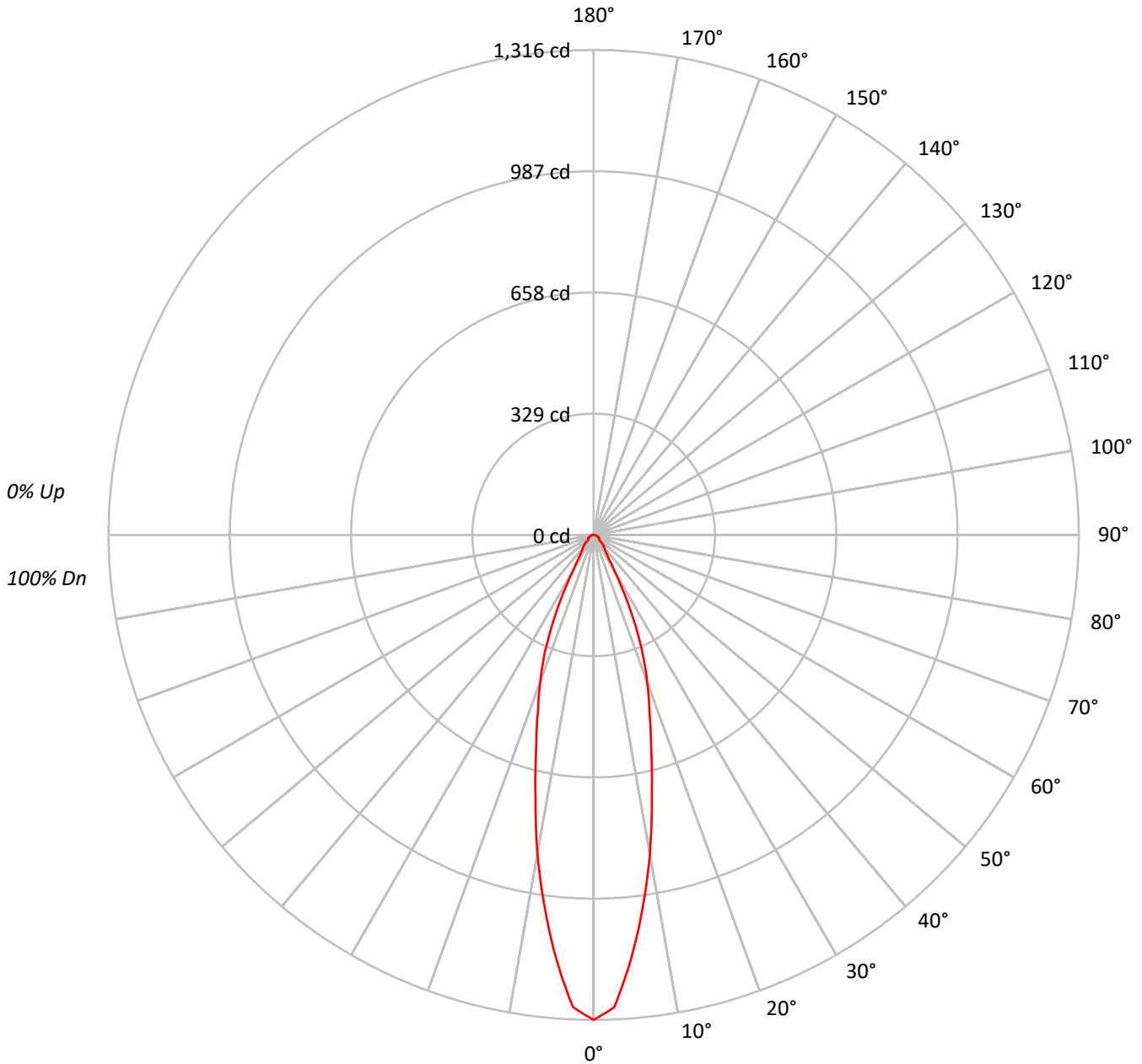
Lumens per Lamp: N/A
Luminaire Lumens: 494.6 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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					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	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°	649337
5°	573516
10°	439920
15°	308156
20°	222356
25°	141703
30°	64719
35°	35476
40°	28596
45°	22328
50°	15044
55°	15999
60°	16282
65°	15644
70°	14858
75°	15822
80°	14775
85°	11888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	20.6
10°-20°	169.6	34.3
20°-30°	117.7	23.8
30°-40°	40.8	8.3
40°-50°	23.9	4.8
50°-60°	16.5	3.3
60°-70°	13.3	2.7
70°-80°	8.3	1.7
80°-90°	2.7	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°	389.0	78.7
0°-40°	429.9	86.9
0°-60°	470.3	95.1
0°-90°	494.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1158	102
15°	603	170
25°	260	118
35°	59	41
45°	32	24
55°	19	17
65°	13	13
75°	8	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1316.1
2.5°	1283.0
5°	1158.0
7.5°	1019.6
10°	878.1
12.5°	728.3
15°	603.3
17.5°	503.1
20°	423.5
22.5°	346.1
25°	260.3
27.5°	179.7
30°	113.6
32.5°	76.4
35°	58.9
37.5°	50.6
40°	44.4
42.5°	39.3
45°	32.0
47.5°	21.7
50°	19.6
52.5°	19.6
55°	18.6
57.5°	17.6
60°	16.5
62.5°	14.5
65°	13.4
67.5°	12.4
70°	10.3
72.5°	9.3
75°	8.3
77.5°	6.2
80°	5.2
82.5°	4.1
85°	2.1
87.5°	1.0
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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