

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: P886272

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-3500K

Issue Date: 7/18/2024

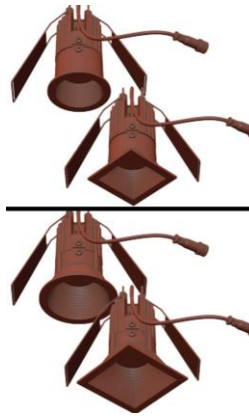
Test Information

Test Method: LM-79-2019
Report Number: P886272
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-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

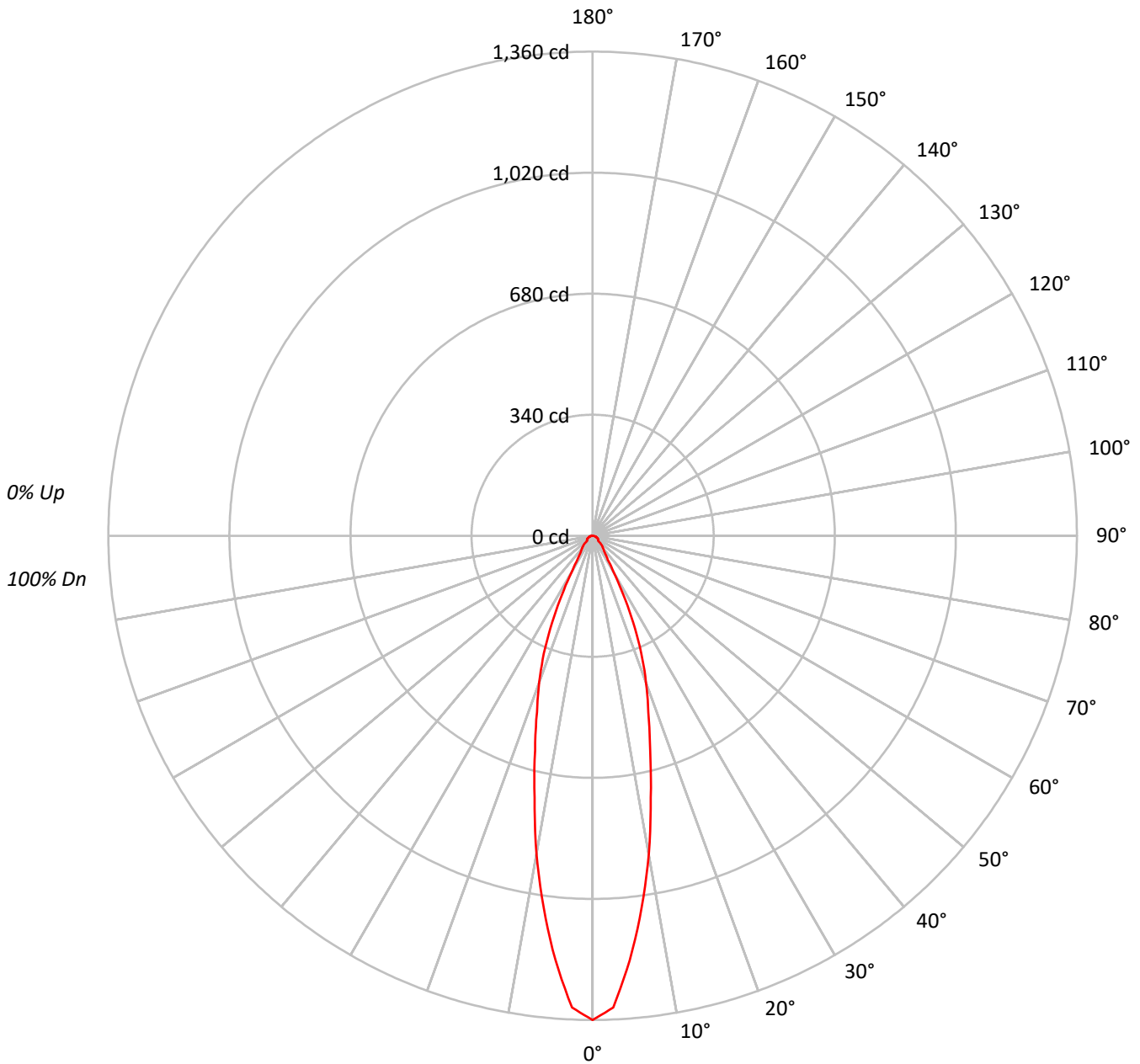
Lumens per Lamp: N/A
Luminaire Lumens: 511.2 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87				
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				
4	98	91	85	81	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	88	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	71	65	62	70	65	62	69	65	61	68	64	61	60				
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	671144
5°	592782
10°	454699
15°	318525
20°	229864
25°	146494
30°	66940
35°	36680
40°	29562
45°	23095
50°	15582
55°	16515
60°	16874
65°	16227
70°	15435
75°	16203
80°	15059
85°	11888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23095 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	20.6
10°-20°	175.3	34.3
20°-30°	121.7	23.8
30°-40°	42.2	8.3
40°-50°	24.7	4.8
50°-60°	17.1	3.3
60°-70°	13.7	2.7
70°-80°	8.6	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°	402.1	78.7
0°-40°	444.4	86.9
0°-60°	486.2	95.1
0°-90°	511.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1360	
5°	1197	105
15°	624	175
25°	269	122
35°	61	42
45°	33	25
55°	19	17
65°	14	14
75°	8	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1360.3
2.5°	1326.1
5°	1196.9
7.5°	1053.9
10°	907.6
12.5°	752.8
15°	623.6
17.5°	520.0
20°	437.8
22.5°	357.7
25°	269.1
27.5°	185.8
30°	117.5
32.5°	79.0
35°	60.9
37.5°	52.3
40°	45.9
42.5°	40.6
45°	33.1
47.5°	22.4
50°	20.3
52.5°	20.3
55°	19.2
57.5°	18.2
60°	17.1
62.5°	14.9
65°	13.9
67.5°	12.8
70°	10.7
72.5°	9.6
75°	8.5
77.5°	6.4
80°	5.3
82.5°	4.3
85°	2.1
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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