

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: P886137

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2RDMBB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2RDMBB-468LM-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

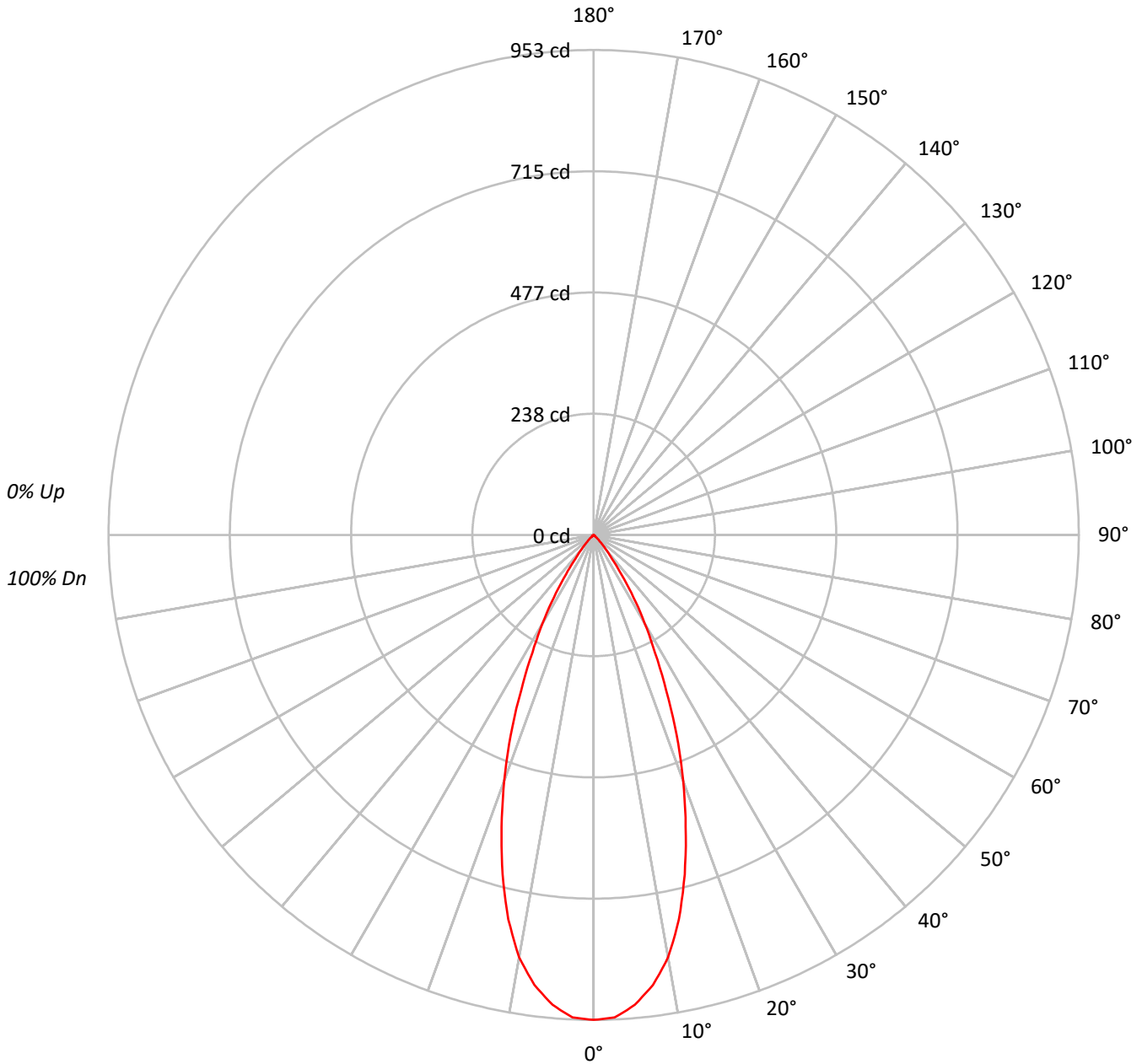
Lumens per Lamp: N/A
Luminaire Lumens: 507.3 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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



TEST NUMBER: P886137
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2RDMMB-468LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886137

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2RDMMBB-468LM-3500K

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	100	100	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	81	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76	76
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73	73	73	73
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69	69	69	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66	66	66	66
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63	63	63	63
10	78	70	65	62	78	70	65	61	69	64	61	68	64	61	67	64	61	60	60	60	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	470141
5°	459060
10°	422235
15°	352799
20°	269662
25°	183621
30°	114169
35°	57099
40°	24796
45°	8722
50°	2763
55°	774
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8722 cd/sqm



TEST NUMBER: P886137

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2RDMBB-468LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	16.9
10°-20°	189.6	37.4
20°-30°	155.4	30.6
30°-40°	63.8	12.6
40°-50°	11.7	2.3
50°-60°	1.0	0.2
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	430.9	84.9
0°-40°	494.6	97.5
0°-60°	507.3	100.0
0°-90°	507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	507.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	953	
5°	927	86
15°	691	190
25°	337	155
35°	95	64
45°	12	12
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886137

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2RDMMBB-468LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	952.9
2.5°	949.3
5°	926.9
7.5°	892.0
10°	842.8
12.5°	773.9
15°	690.7
17.5°	601.2
20°	513.6
22.5°	425.9
25°	337.3
27.5°	260.4
30°	200.4
32.5°	145.8
35°	94.8
37.5°	59.1
40°	38.5
42.5°	23.3
45°	12.5
47.5°	5.4
50°	3.6
52.5°	1.8
55°	0.9
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)