

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: P886084

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K

Issue Date: 7/18/2024

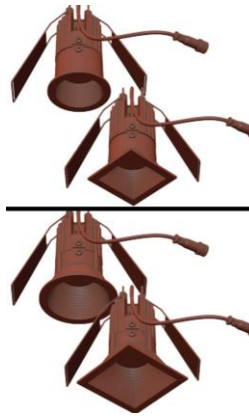
Test Information

Test Method: LM-79-2019
Report Number: P886084
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: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

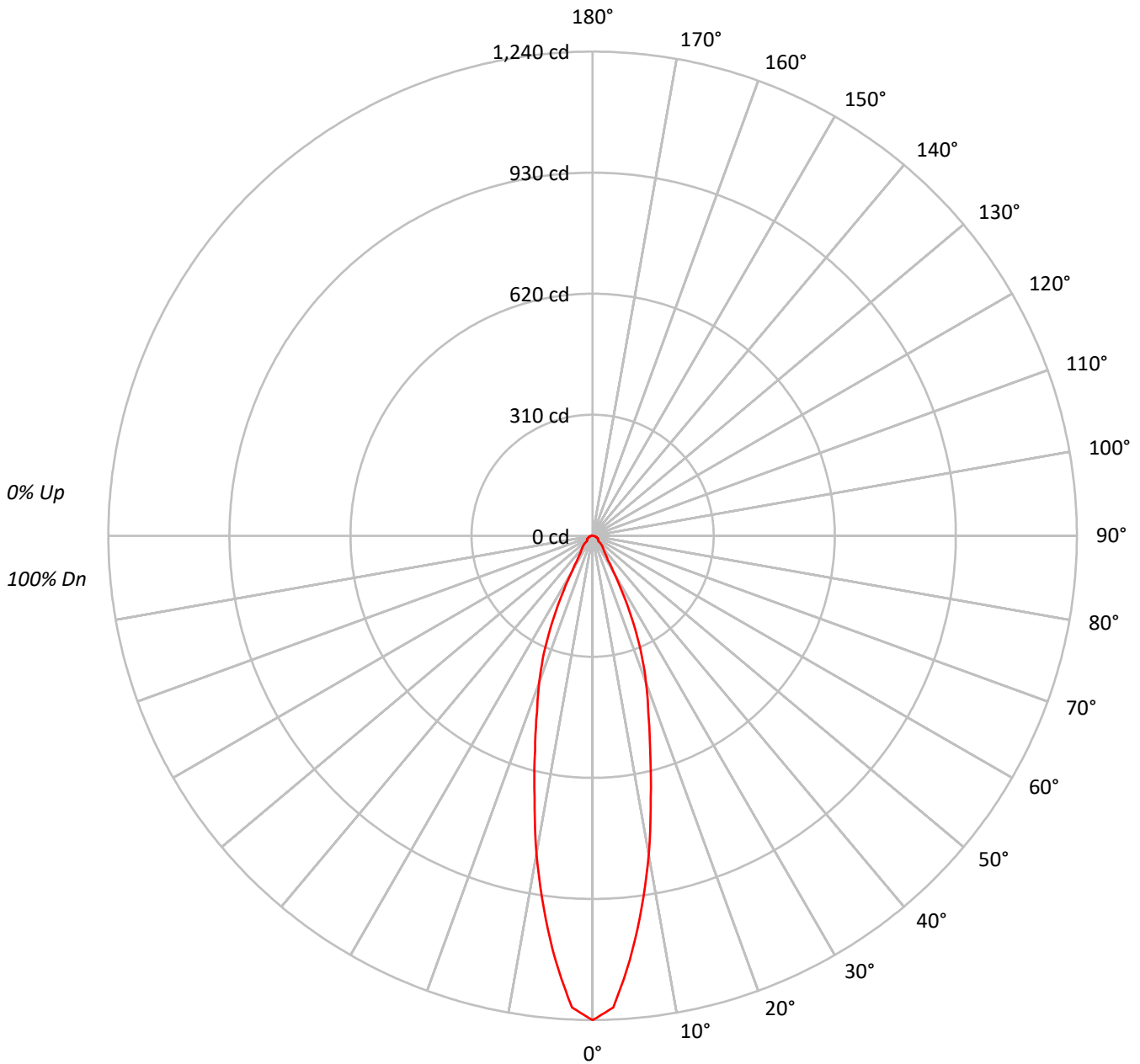
Lumens per Lamp: N/A
Luminaire Lumens: 466.2 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P886084
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886084

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K

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°	611988
5°	540531
10°	414620
15°	290432
20°	209597
25°	133537
30°	61015
35°	33428
40°	26986
45°	21072
50°	14200
55°	15053
60°	15393
65°	14826
70°	13993
75°	14869
80°	13922
85°	10756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21072 cd/sqm



TEST NUMBER: P886084

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	20.6
10°-20°	159.8	34.3
20°-30°	111.0	23.8
30°-40°	38.5	8.3
40°-50°	22.5	4.8
50°-60°	15.6	3.3
60°-70°	12.5	2.7
70°-80°	7.8	1.7
80°-90°	2.5	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°	366.7	78.7
0°-40°	405.2	86.9
0°-60°	443.3	95.1
0°-90°	466.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1240	
5°	1091	96
15°	569	160
25°	245	111
35°	56	38
45°	30	23
55°	18	16
65°	13	13
75°	8	8
85°	2	3
90°	0	



TEST NUMBER: P886084

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1240.4
2.5°	1209.2
5°	1091.4
7.5°	960.9
10°	827.6
12.5°	686.4
15°	568.6
17.5°	474.1
20°	399.2
22.5°	326.2
25°	245.3
27.5°	169.4
30°	107.1
32.5°	72.0
35°	55.5
37.5°	47.7
40°	41.9
42.5°	37.0
45°	30.2
47.5°	20.4
50°	18.5
52.5°	18.5
55°	17.5
57.5°	16.6
60°	15.6
62.5°	13.6
65°	12.7
67.5°	11.7
70°	9.7
72.5°	8.8
75°	7.8
77.5°	5.8
80°	4.9
82.5°	3.9
85°	1.9
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

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)