

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: P886200

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K

Issue Date: 6/20/2024

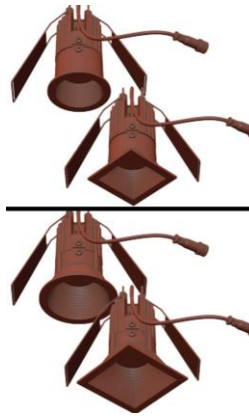
Test Information

Test Method: LM-79-2019
Report Number: P886200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

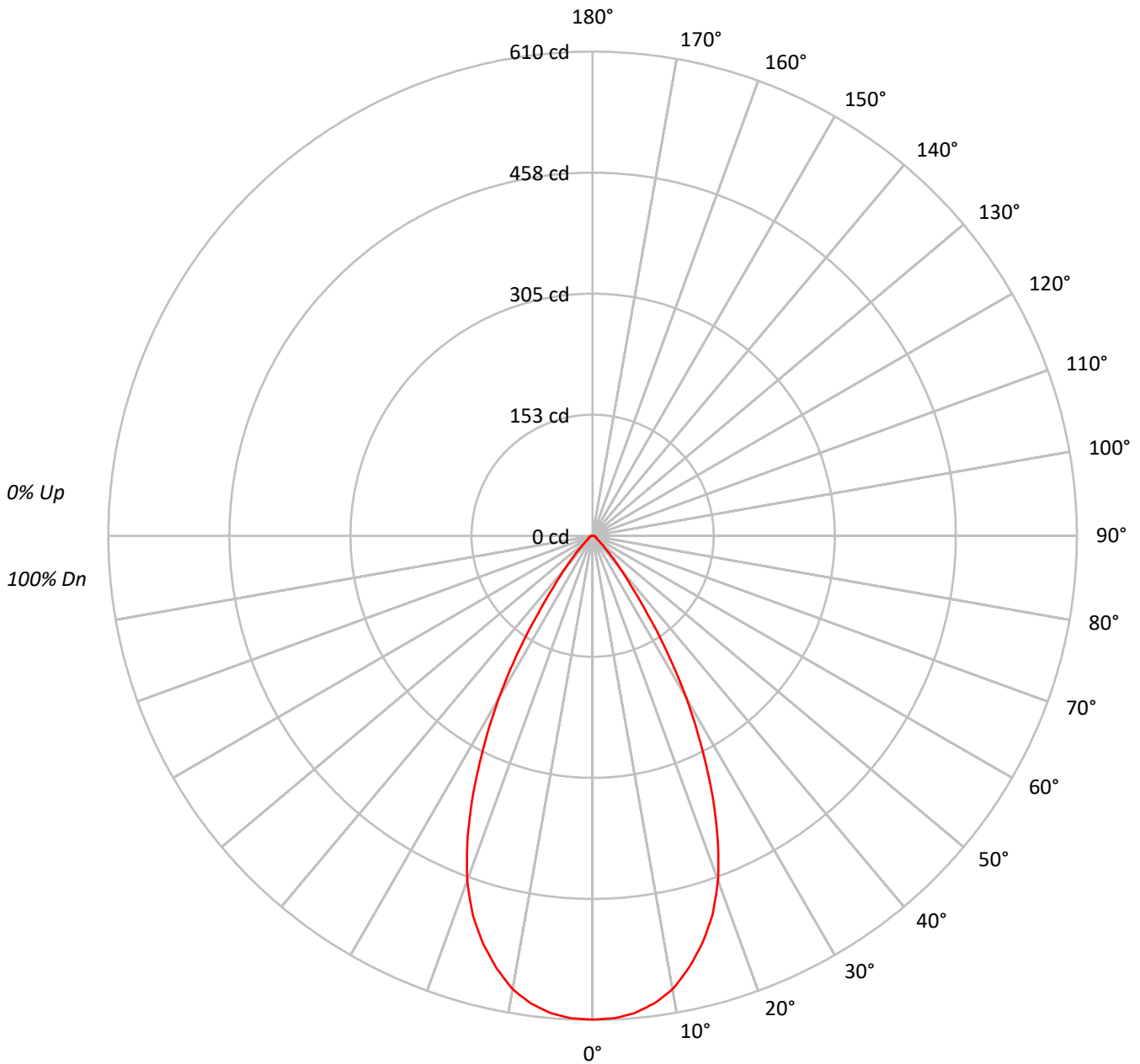
Lumens per Lamp: N/A
Luminaire Lumens: 481.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P886200
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886200
 CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K

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
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87			87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	73	71			71
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			63
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59			59
9	77	67	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56			56
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	300715
5°	298941
10°	290625
15°	271890
20°	242518
25°	193039
30°	134678
35°	72216
40°	35101
45°	16397
50°	8366
55°	5763
60°	5822
65°	5837
70°	6059
75°	6481
80°	7103
85°	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16397 cd/sqm



TEST NUMBER: P886200

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	11.8
10°-20°	148.1	30.8
20°-30°	160.0	33.3
30°-40°	79.7	16.6
40°-50°	20.5	4.3
50°-60°	6.6	1.4
60°-70°	4.8	1.0
70°-80°	3.3	0.7
80°-90°	1.2	0.3
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°	364.9	75.9
0°-40°	444.6	92.4
0°-60°	471.6	98.1
0°-90°	481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	604	57
15°	532	148
25°	355	160
35°	120	80
45°	24	20
55°	7	7
65°	5	5
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P886200

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2RDMW-468LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	609.5
2.5°	608.6
5°	603.6
7.5°	594.4
10°	580.1
12.5°	558.3
15°	532.3
17.5°	501.3
20°	461.9
22.5°	411.6
25°	354.6
27.5°	294.3
30°	236.4
32.5°	176.9
35°	119.9
37.5°	79.6
40°	54.5
42.5°	36.9
45°	23.5
47.5°	15.1
50°	10.9
52.5°	8.4
55°	6.7
57.5°	5.9
60°	5.9
62.5°	5.0
65°	5.0
67.5°	4.2
70°	4.2
72.5°	3.4
75°	3.4
77.5°	2.5
80°	2.5
82.5°	1.7
85°	0.8
87.5°	0.8
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)