

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: P886228

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

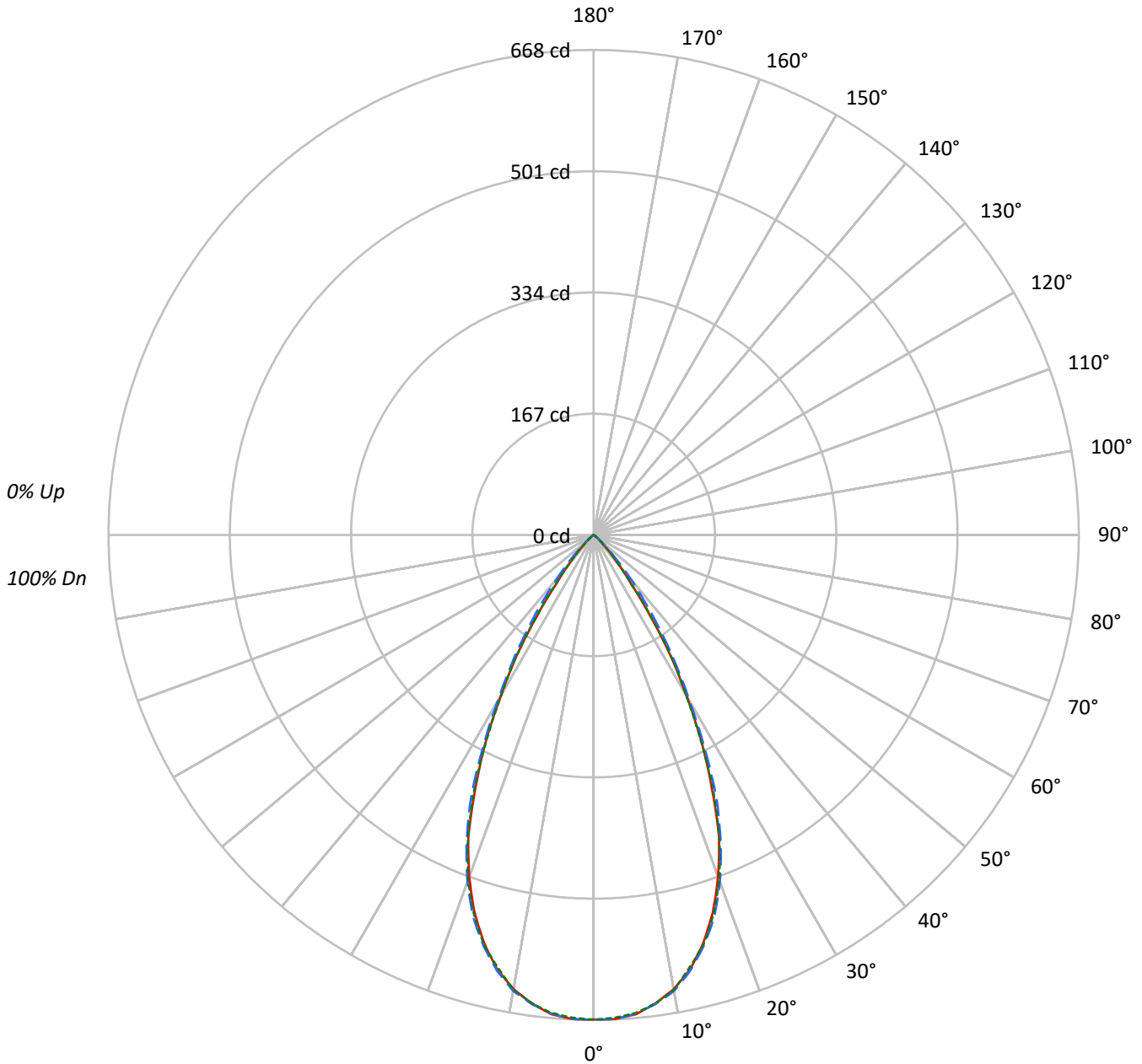
Lumens per Lamp: N/A
Luminaire Lumens: 518.6 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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: P886228
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886228

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83								
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73								
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68								
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57								
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	258656	258656	258656
5°	257855	257504	257116
10°	249897	250999	250251
15°	233601	235085	234363
20°	206555	209607	208452
25°	164653	171023	166662
30°	113920	118081	113517
35°	63956	75309	65234
40°	27619	40720	27619
45°	10631	16221	10631
50°	3918	5606	3376
55°	608	1892	1284
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16221 cd/sqm



TEST NUMBER: P886228

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	12.0
10°-20°	162.3	31.3
20°-30°	176.9	34.1
30°-40°	93.7	18.1
40°-50°	21.1	4.1
50°-60°	2.2	0.4
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°	401.6	77.4
0°-40°	495.3	95.5
0°-60°	518.6	100.0
0°-90°	518.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	663	661	662	661	661	62
15°	582	582	586	583	584	162
25°	385	396	400	396	390	174
35°	135	149	159	148	138	87
45°	19	22	30	22	19	18
55°	1	2	3	2	2	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886228

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.5	667.5	667.5	667.5	667.5
2.5°	667.5	666.6	667.5	666.6	665.7
5°	662.9	661.0	662.0	661.0	661.0
7.5°	650.9	650.9	651.8	651.8	650.9
10°	635.1	637.0	637.9	637.0	636.0
12.5°	612.9	611.0	614.8	612.9	610.1
15°	582.3	582.3	586.0	583.3	584.2
17.5°	545.3	549.9	551.8	548.1	548.1
20°	500.9	505.5	508.3	508.3	505.5
22.5°	450.9	458.3	457.4	457.4	451.8
25°	385.1	396.3	400.0	396.3	389.8
27.5°	322.2	321.3	330.5	325.9	320.3
30°	254.6	259.2	263.9	260.2	253.7
32.5°	197.2	204.6	209.2	202.8	199.1
35°	135.2	149.1	159.2	148.1	137.9
37.5°	83.3	96.3	114.8	98.1	86.1
40°	54.6	60.2	80.5	61.1	54.6
42.5°	34.3	38.0	51.8	38.0	34.3
45°	19.4	22.2	29.6	22.2	19.4
47.5°	11.1	12.0	15.7	12.0	10.2
50°	6.5	7.4	9.3	6.5	5.6
52.5°	2.8	3.7	4.6	3.7	2.8
55°	0.9	1.9	2.8	1.9	1.9
57.5°	0.0	0.9	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)