

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: P886107

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

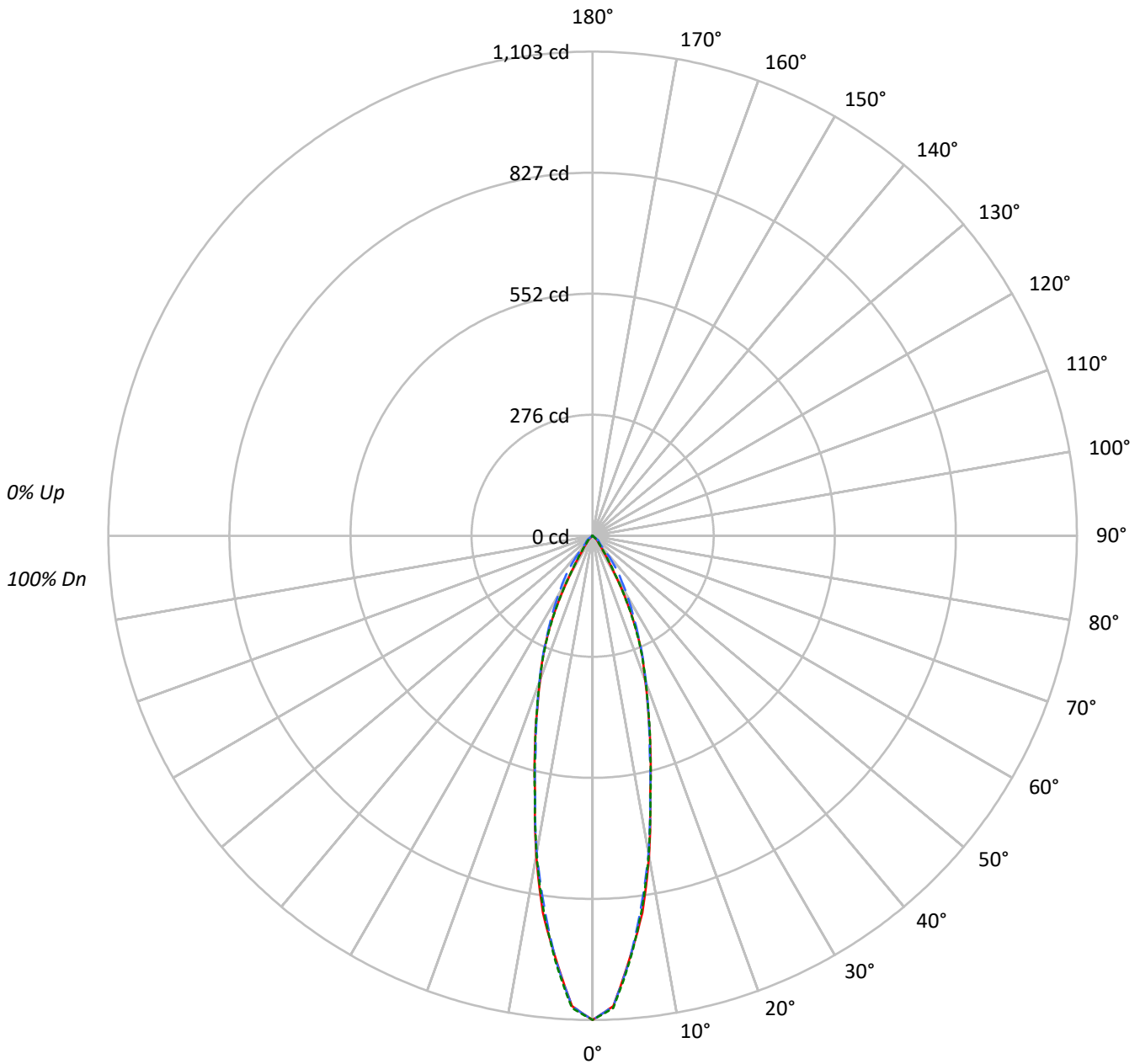
Lumens per Lamp: N/A
Luminaire Lumens: 391.4 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	427373	427373	427373
5°	375676	376727	378127
10°	290819	288379	289442
15°	203794	200905	203072
20°	143710	145937	145195
25°	99578	102657	97697
30°	46087	69757	46490
35°	19064	46643	19915
40°	10876	19020	11331
45°	6850	11782	7343
50°	543	9706	543
55°	608	2432	608
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: 11782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	21.8
10°-20°	141.9	36.3
20°-30°	107.9	27.6
30°-40°	42.1	10.7
40°-50°	12.5	3.2
50°-60°	1.8	0.5
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°	335.1	85.6
0°-40°	377.1	96.3
0°-60°	391.4	100.0
0°-90°	391.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	391.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	966	971	968	967	972	86
15°	508	504	501	508	506	142
25°	233	242	240	240	228	103
35°	40	54	99	56	42	30
45°	12	16	22	16	13	8
55°	1	1	4	1	1	0
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.9	1102.9	1102.9	1102.9	1102.9
2.5°	1072.4	1073.3	1072.4	1076.9	1076.9
5°	965.8	971.2	968.5	966.7	972.1
7.5°	866.4	854.7	849.3	852.9	859.2
10°	739.1	735.6	732.9	736.4	735.6
12.5°	605.6	608.3	605.6	610.1	607.4
15°	508.0	504.4	500.8	508.0	506.2
17.5°	421.1	424.7	421.1	422.9	422.9
20°	348.5	354.8	353.9	354.8	352.1
22.5°	294.8	293.9	295.7	294.8	292.1
25°	232.9	241.9	240.1	240.1	228.5
27.5°	166.6	185.5	195.3	188.1	164.8
30°	103.0	134.4	155.9	129.9	103.9
32.5°	65.4	86.0	124.5	84.2	66.3
35°	40.3	53.8	98.6	55.5	42.1
37.5°	28.7	38.5	68.1	38.5	28.7
40°	21.5	26.9	37.6	26.9	22.4
42.5°	17.0	20.6	25.1	20.6	17.9
45°	12.5	16.1	21.5	16.1	13.4
47.5°	3.6	10.8	18.8	10.8	5.4
50°	0.9	1.8	16.1	3.6	0.9
52.5°	0.9	0.9	11.6	0.9	0.9
55°	0.9	0.9	3.6	0.9	0.9
57.5°	0.0	0.0	0.9	0.0	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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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