

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: P886128

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 443.7 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

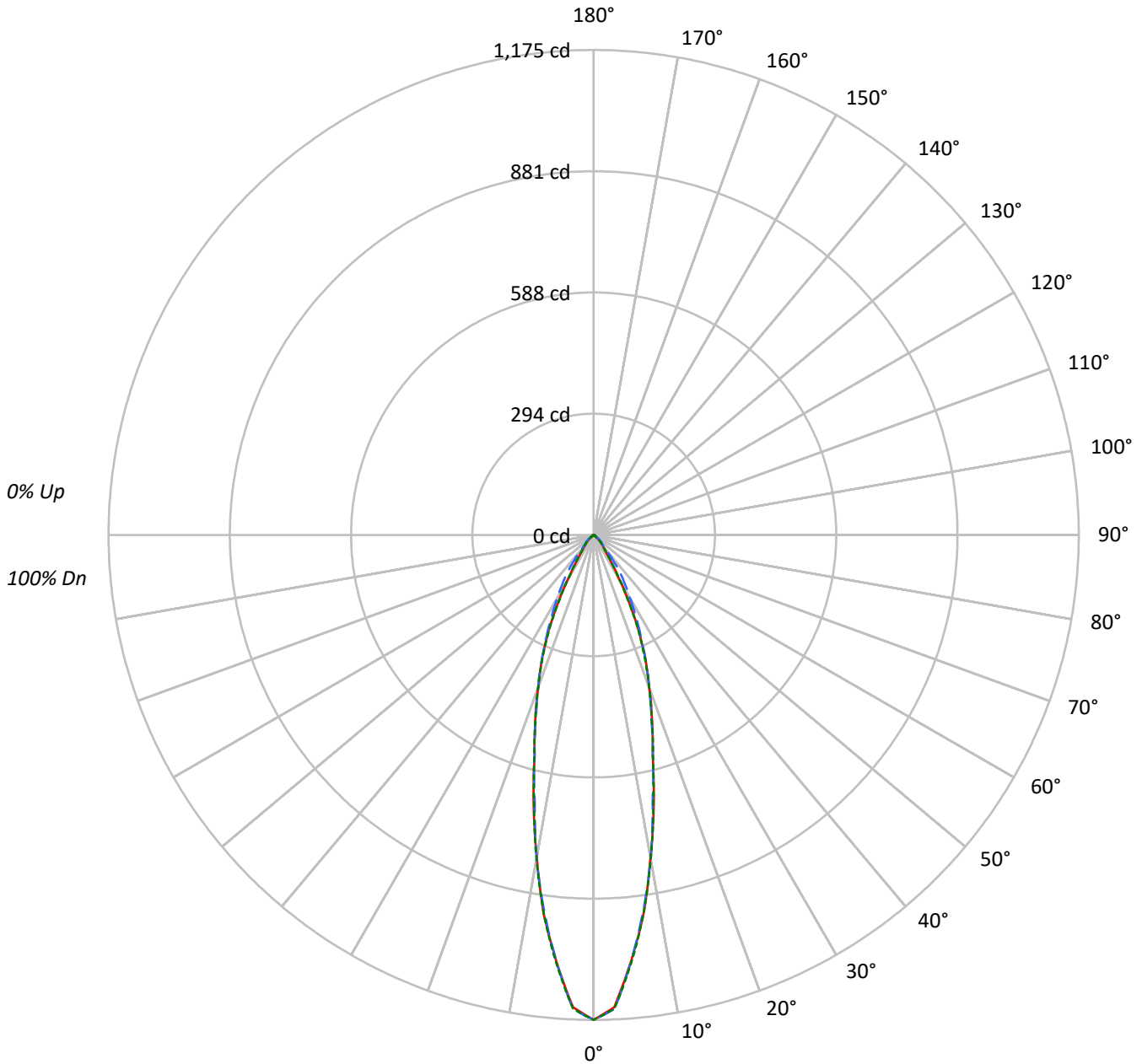
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90					90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85					85			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80					80			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76					76			
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73					73			
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69					69			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66					66			
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63					63			
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60					60			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	455312	455312	455312
5°	403372	403372	405200
10°	312224	312972	313680
15°	221365	222488	222488
20°	162267	161896	162267
25°	111251	114799	110053
30°	55528	78303	55931
35°	25828	51704	27579
40°	17350	23421	17350
45°	11673	14741	11179
50°	4461	11695	4461
55°	3108	3783	3108
60°	2170	1472	2170
65°	1742	825	1742
70°	1020	1020	1020
75°	1347	1347	1347
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14741 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	20.6
10°-20°	155.9	35.1
20°-30°	120.6	27.2
30°-40°	50.7	11.4
40°-50°	17.8	4.0
50°-60°	4.7	1.1
60°-70°	1.6	0.4
70°-80°	0.8	0.2
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°	368.1	83.0
0°-40°	418.8	94.4
0°-60°	441.3	99.5
0°-90°	443.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1037	1042	1037	1039	1042	92
15°	552	556	555	556	555	156
25°	260	268	268	268	257	116
35°	55	68	109	69	58	39
45°	21	23	27	22	20	15
55°	5	4	6	4	5	4
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
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°	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1145.4	1143.5	1150.0	1150.0	1149.1
5°	1037.0	1041.7	1037.0	1038.9	1041.7
7.5°	926.8	923.1	919.4	920.4	925.9
10°	793.5	793.5	795.4	795.4	797.2
12.5°	672.2	661.1	660.2	666.7	666.7
15°	551.8	555.5	554.6	556.5	554.6
17.5°	470.4	465.7	464.8	468.5	467.6
20°	393.5	395.4	392.6	394.4	393.5
22.5°	328.7	327.8	328.7	329.6	323.1
25°	260.2	268.5	268.5	267.6	257.4
27.5°	188.9	209.3	217.6	205.6	186.1
30°	124.1	151.9	175.0	150.0	125.0
32.5°	82.4	100.9	140.7	101.9	84.3
35°	54.6	68.5	109.3	69.4	58.3
37.5°	41.7	50.0	75.9	49.1	42.6
40°	34.3	36.1	46.3	37.0	34.3
42.5°	27.8	28.7	32.4	28.7	27.8
45°	21.3	23.1	26.9	22.2	20.4
47.5°	10.2	15.7	23.1	14.8	13.0
50°	7.4	6.5	19.4	9.3	7.4
52.5°	5.6	4.6	13.9	4.6	5.6
55°	4.6	3.7	5.6	3.7	4.6
57.5°	3.7	2.8	2.8	2.8	3.7
60°	2.8	2.8	1.9	2.8	2.8
62.5°	2.8	1.9	1.9	1.9	2.8
65°	1.9	1.9	0.9	1.9	1.9
67.5°	1.9	0.9	0.9	0.9	1.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.9	0.9
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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