

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: P886187

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 538.9 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

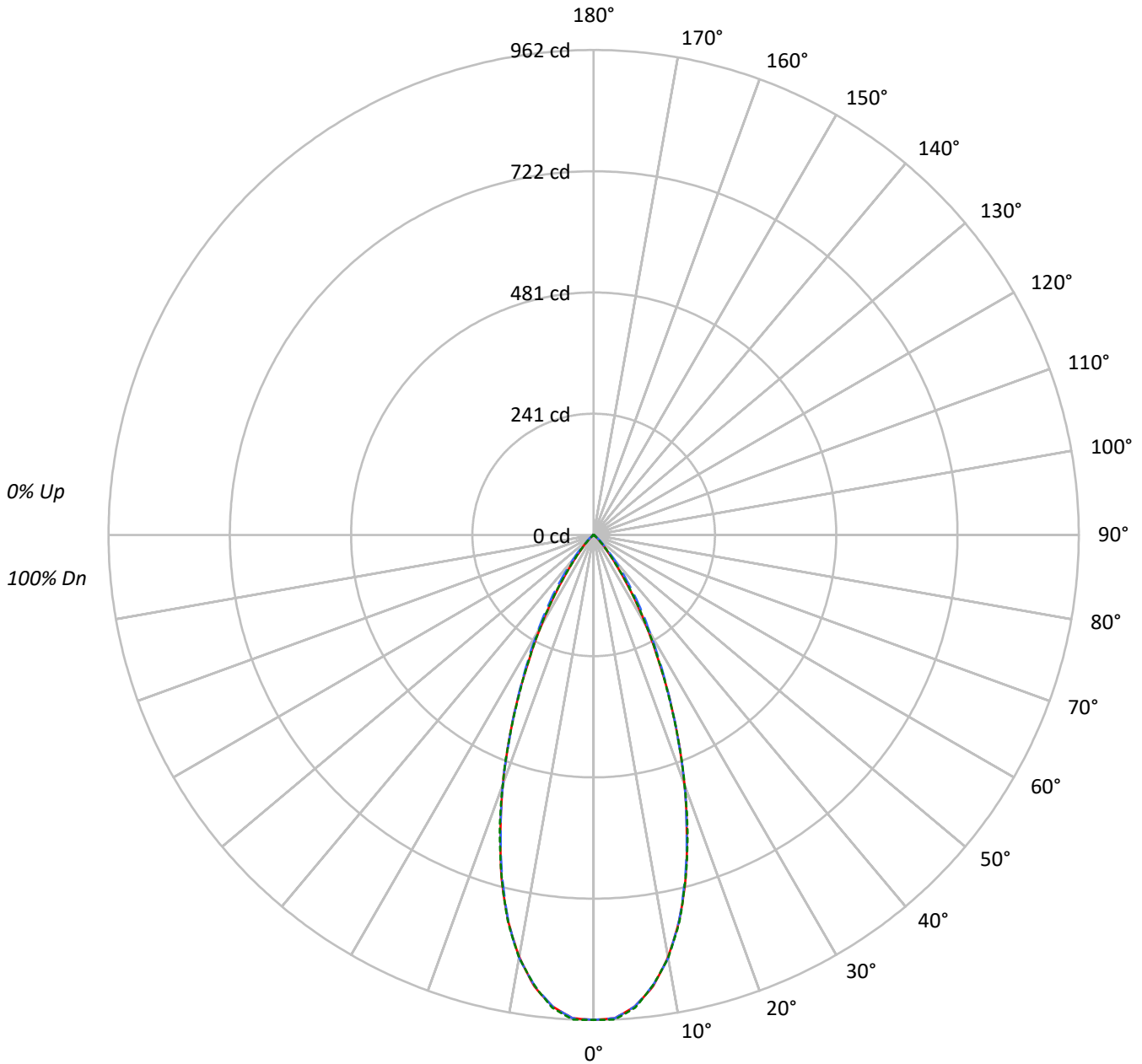
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89					89			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84					84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80					80			
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75					75			
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71					71			
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68					68			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	372813	372813	372813
5°	365174	365174	366224
10°	334534	335243	334888
15°	282904	281500	282543
20°	217359	217359	217359
25°	151142	151142	149603
30°	93695	99333	94098
35°	47825	59699	49528
40°	21751	32121	22611
45°	8823	13755	8823
50°	3255	6450	3255
55°	1824	1824	1824
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	1347	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	16.1
10°-20°	193.1	35.8
20°-30°	162.5	30.2
30°-40°	74.7	13.9
40°-50°	17.9	3.3
50°-60°	2.7	0.5
60°-70°	0.9	0.2
70°-80°	0.2	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°	442.5	82.1
0°-40°	517.2	96.0
0°-60°	537.8	99.8
0°-90°	538.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	939	940	939	940	942	87
15°	705	707	702	702	704	193
25°	354	354	354	354	350	161
35°	101	116	126	116	105	68
45°	16	20	25	21	16	14
55°	3	3	3	3	3	2
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.1	962.1	962.1	962.1	962.1
2.5°	959.4	958.5	959.4	960.3	962.1
5°	938.8	939.7	938.8	939.7	941.5
7.5°	903.0	903.9	901.2	902.1	901.2
10°	850.2	852.0	852.0	852.0	851.1
12.5°	784.0	784.0	783.1	780.4	785.8
15°	705.2	707.0	701.7	701.7	704.3
17.5°	613.9	614.8	613.1	618.4	619.3
20°	527.1	528.0	527.1	526.2	527.1
22.5°	436.7	440.3	435.8	442.1	437.6
25°	353.5	354.4	353.5	354.4	349.9
27.5°	273.9	275.6	283.7	279.2	275.6
30°	209.4	213.9	222.0	213.9	210.3
32.5°	152.1	162.9	171.8	165.6	154.8
35°	101.1	115.5	126.2	116.3	104.7
37.5°	67.1	74.3	90.4	76.1	68.0
40°	43.0	48.3	63.5	49.2	44.7
42.5°	28.6	32.2	41.2	33.1	29.5
45°	16.1	19.7	25.1	20.6	16.1
47.5°	8.1	10.7	17.0	10.7	8.1
50°	5.4	5.4	10.7	5.4	5.4
52.5°	3.6	3.6	5.4	3.6	3.6
55°	2.7	2.7	2.7	2.7	2.7
57.5°	1.8	1.8	1.8	1.8	1.8
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.0	0.9	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
75°	0.9	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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