

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: P886222

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 499.1 lumens
Efficiency: N/A
Efficacy: 62.4 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

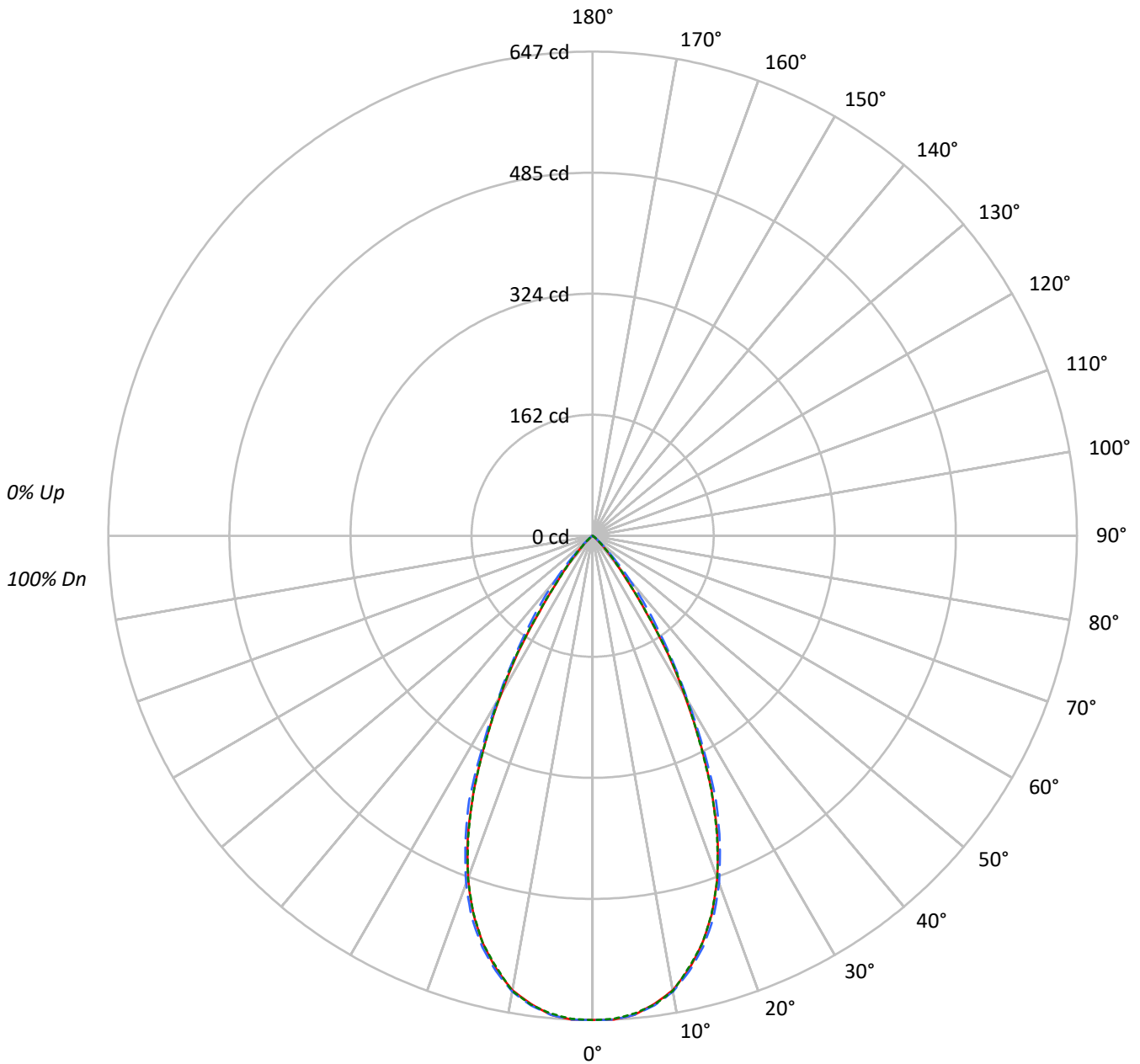
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	92	90	88
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	250751	250751	250751
5°	249958	249958	249258
10°	242657	243366	243012
15°	226580	228345	226580
20°	200782	203751	200782
25°	160719	166833	160334
30°	109714	113741	111325
35°	58422	71572	59699
40°	25798	38950	26253
45°	9809	14248	9809
50°	2713	4883	3255
55°	608	1824	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: 14248 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	12.1
10°-20°	157.6	31.6
20°-30°	171.0	34.3
30°-40°	88.8	17.8
40°-50°	19.4	3.9
50°-60°	1.8	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°	389.0	78.0
0°-40°	477.8	95.7
0°-60°	499.1	100.0
0°-90°	499.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	643	642	643	642	641	60
15°	565	567	569	566	565	157
25°	376	379	390	378	375	169
35°	124	139	151	141	126	82
45°	18	20	26	20	18	16
55°	1	2	3	1	1	1
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.1	647.1	647.1	647.1	647.1
2.5°	647.1	646.2	647.1	647.1	646.2
5°	642.6	641.7	642.6	641.7	640.8
7.5°	631.0	631.9	632.8	631.9	631.9
10°	616.7	617.6	618.5	617.6	617.6
12.5°	593.4	595.2	596.1	595.2	591.6
15°	564.8	566.6	569.2	565.7	564.8
17.5°	529.9	534.3	536.1	532.5	529.0
20°	486.9	491.4	494.1	491.4	486.9
22.5°	435.9	442.1	443.9	441.3	434.1
25°	375.9	378.6	390.2	377.7	375.0
27.5°	309.7	314.2	319.5	315.1	307.9
30°	245.2	249.7	254.2	251.5	248.8
32.5°	187.1	197.8	198.7	195.1	190.6
35°	123.5	138.7	151.3	141.4	126.2
37.5°	77.9	87.7	110.1	88.6	78.8
40°	51.0	55.5	77.0	56.4	51.9
42.5°	32.2	35.8	47.4	34.9	32.2
45°	17.9	19.7	26.0	19.7	17.9
47.5°	9.0	10.7	15.2	10.7	9.8
50°	4.5	6.3	8.1	6.3	5.4
52.5°	1.8	3.6	4.5	3.6	2.7
55°	0.9	1.8	2.7	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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