

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: P886173

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562.4 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

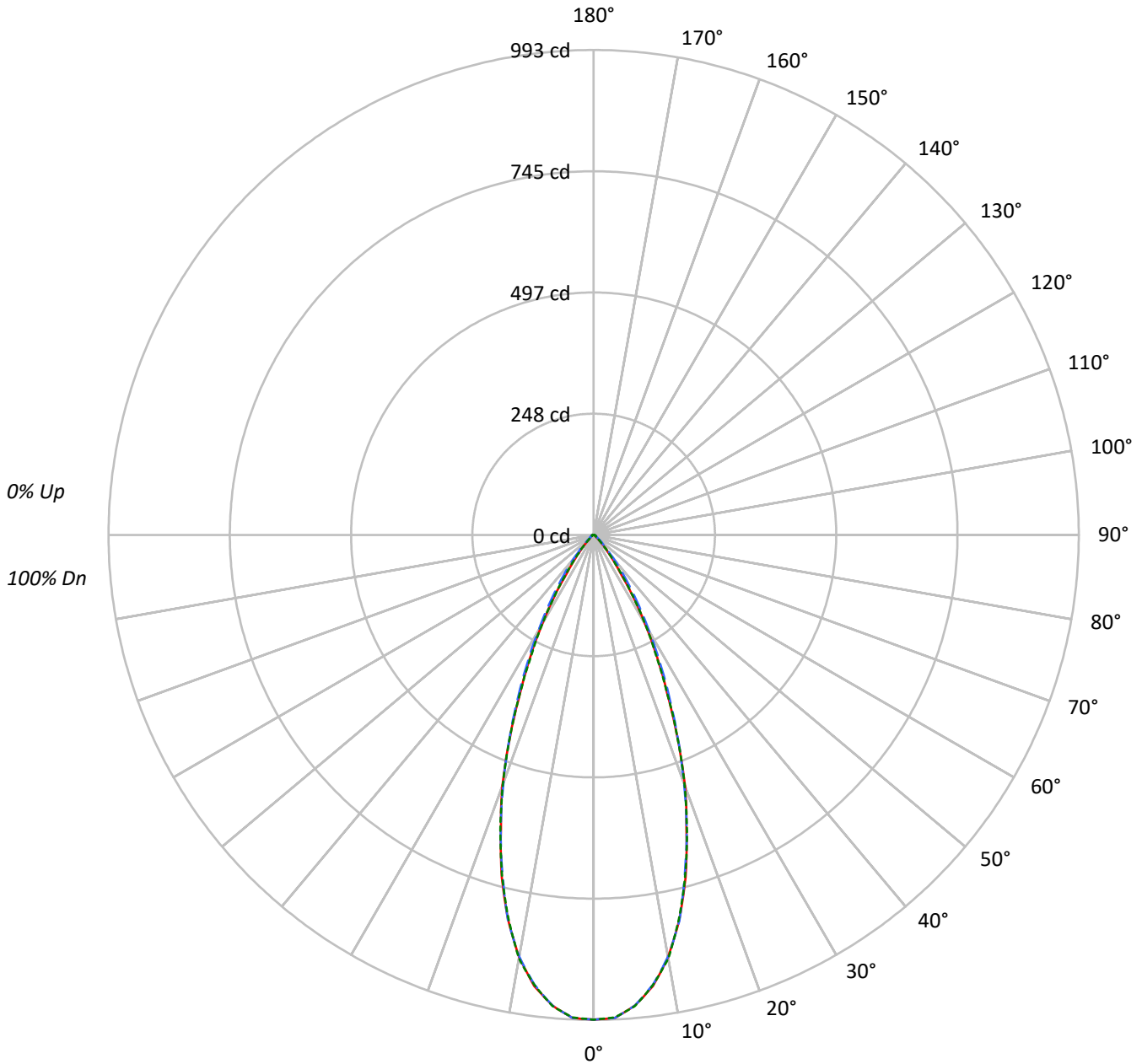
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	89	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66								
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63								
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60								
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	96159	96159	96159
5°	94095	94095	94192
10°	86359	86270	86634
15°	72833	72271	72552
20°	56361	55701	55979
25°	37871	39058	37871
30°	23692	25247	23592
35°	11377	15102	12146
40°	5729	7954	5729
45°	2288	3932	2535
50°	1251	2095	1402
55°	946	1250	1098
60°	891	1085	891
65°	848	1054	848
70°	793	1048	793
75°	1048	1048	1048
80°	1060	1060	1060
85°	1000	1000	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	15.9
10°-20°	198.7	35.3
20°-30°	165.8	29.5
30°-40°	74.6	13.3
40°-50°	19.7	3.5
50°-60°	6.4	1.1
60°-70°	4.2	0.8
70°-80°	2.7	0.5
80°-90°	0.9	0.2
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°	454.0	80.7
0°-40°	528.6	94.0
0°-60°	554.6	98.6
0°-90°	562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	562.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	968	969	968	968	969	90
15°	726	723	721	722	723	199
25°	354	361	365	362	354	164
35°	96	112	128	114	103	67
45°	17	22	29	22	18	16
55°	6	6	7	6	6	6
65°	4	5	5	5	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.6	992.6	992.6	992.6	992.6
2.5°	989.8	989.8	989.8	990.8	988.9
5°	967.6	968.6	967.6	967.6	968.6
7.5°	931.6	931.6	928.8	929.7	929.7
10°	877.9	876.1	877.0	876.1	880.7
12.5°	808.5	809.5	809.5	811.3	805.8
15°	726.2	723.4	720.6	721.6	723.4
17.5°	631.8	631.8	632.8	630.9	635.5
20°	546.7	543.0	540.3	536.6	543.0
22.5°	446.8	448.7	449.6	446.8	447.7
25°	354.3	360.8	365.4	361.7	354.3
27.5°	279.4	279.4	291.4	283.1	274.8
30°	211.8	217.4	225.7	217.4	210.9
32.5°	150.8	161.9	173.0	162.8	151.7
35°	96.2	111.9	127.7	113.8	102.7
37.5°	65.7	74.9	92.5	75.9	68.5
40°	45.3	50.0	62.9	50.9	45.3
42.5°	29.6	34.2	42.6	34.2	29.6
45°	16.7	22.2	28.7	22.2	18.5
47.5°	10.2	13.0	20.4	13.9	12.0
50°	8.3	10.2	13.9	9.3	9.3
52.5°	7.4	8.3	9.3	8.3	7.4
55°	5.6	6.5	7.4	6.5	6.5
57.5°	5.6	5.6	6.5	5.6	5.6
60°	4.6	5.6	5.6	5.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	3.7	4.6	4.6	4.6	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	2.8	3.7	3.7	3.7	2.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.9	0.0	0.9	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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