

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: P886174

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886174
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-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 591.6 lumens
Efficiency: N/A
Efficacy: 74.0 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

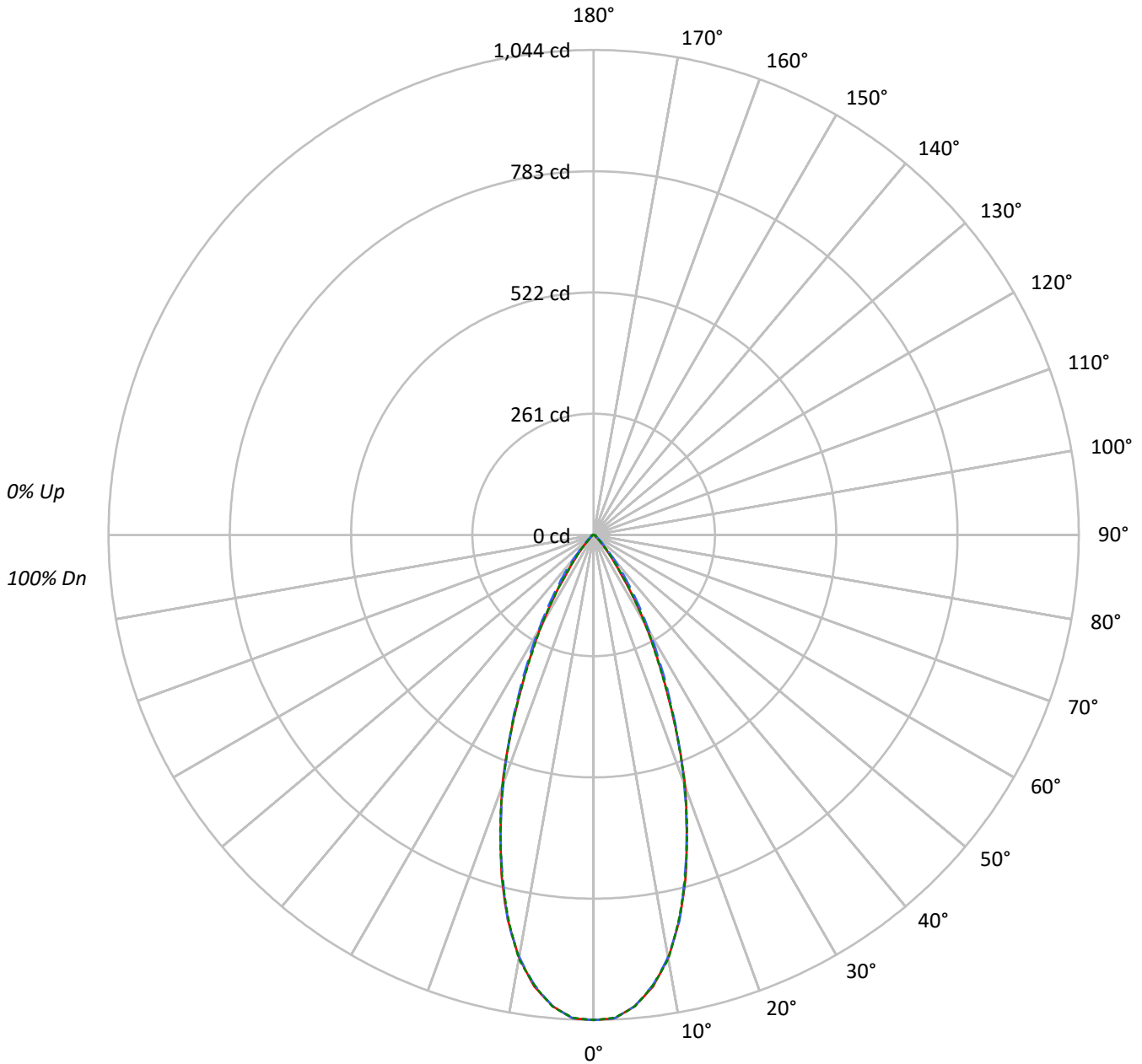
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	90	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°	101167	101167	101167
5°	98996	98996	99093
10°	90854	90756	91140
15°	76624	76042	76333
20°	59299	58598	58897
25°	39838	41089	39838
30°	24934	26567	24822
35°	11968	15883	12772
40°	6032	8372	6032
45°	2398	4137	2672
50°	1326	2200	1462
55°	980	1317	1149
60°	949	1124	949
65°	894	1123	894
70°	821	1105	821
75°	1085	1085	1085
80°	1060	1060	1060
85°	1112	1112	1112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	15.9
10°-20°	209.0	35.3
20°-30°	174.4	29.5
30°-40°	78.5	13.3
40°-50°	20.7	3.5
50°-60°	6.7	1.1
60°-70°	4.5	0.8
70°-80°	2.8	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°	477.6	80.7
0°-40°	556.1	94.0
0°-60°	583.5	98.6
0°-90°	591.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1018	1019	1018	1018	1019	94
15°	764	761	758	759	761	209
25°	373	380	384	380	373	173
35°	101	118	134	120	108	71
45°	18	23	30	23	20	17
55°	6	7	8	7	7	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°	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1041.4	1041.4	1041.4	1042.3	1040.4
5°	1018.0	1019.0	1018.0	1018.0	1019.0
7.5°	980.0	980.0	977.1	978.1	978.1
10°	923.6	921.7	922.6	921.7	926.5
12.5°	850.6	851.6	851.6	853.5	847.7
15°	764.0	761.1	758.2	759.1	761.1
17.5°	664.7	664.7	665.7	663.7	668.6
20°	575.2	571.3	568.4	564.5	571.3
22.5°	470.1	472.0	473.0	470.1	471.0
25°	372.7	379.6	384.4	380.5	372.7
27.5°	293.9	293.9	306.6	297.8	289.1
30°	222.9	228.7	237.5	228.7	221.9
32.5°	158.6	170.3	182.0	171.3	159.6
35°	101.2	117.8	134.3	119.7	108.0
37.5°	69.1	78.8	97.3	79.8	72.0
40°	47.7	52.6	66.2	53.5	47.7
42.5°	31.1	36.0	44.8	36.0	31.1
45°	17.5	23.4	30.2	23.4	19.5
47.5°	10.7	13.6	21.4	14.6	12.7
50°	8.8	10.7	14.6	9.7	9.7
52.5°	7.8	8.8	9.7	8.8	7.8
55°	5.8	6.8	7.8	6.8	6.8
57.5°	5.8	5.8	6.8	5.8	5.8
60°	4.9	5.8	5.8	5.8	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	3.9	4.9	4.9	4.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	2.9	3.9	3.9	3.9	2.9
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.9	2.9	2.9	2.9	2.9
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°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	1.0	0.0	1.0	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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