

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: P886179

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 595.1 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

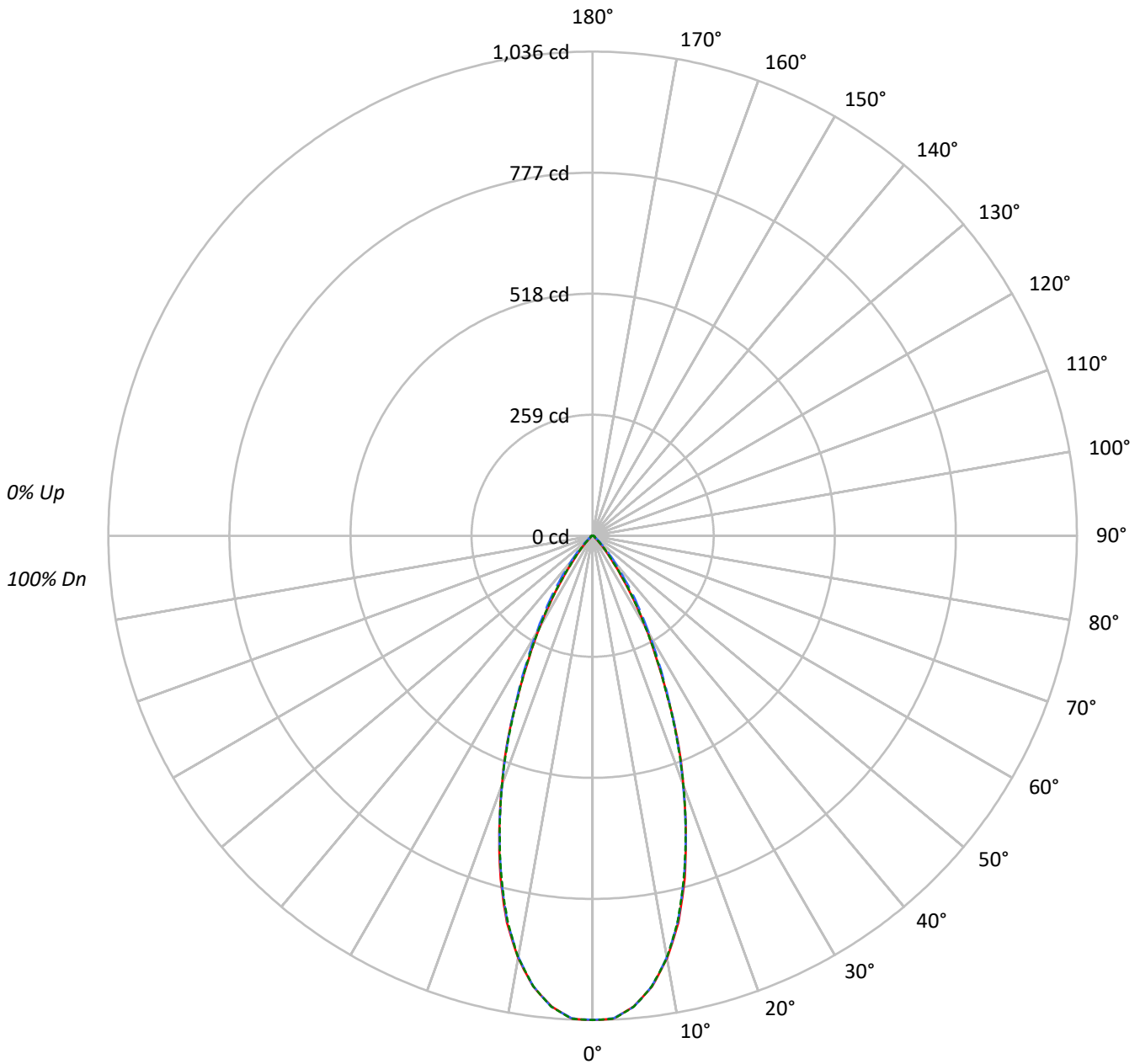
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	102	99	96	99	96	94	96	94	92	93	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	83	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	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66								
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63								
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60								
10	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100373	100373	100373
5°	98296	98393	98393
10°	90235	90048	90146
15°	76273	75791	75691
20°	58433	58330	58526
25°	40287	40907	40180
30°	25594	27015	25270
35°	13245	16474	13707
40°	6159	9118	6399
45°	2795	4398	2932
50°	1326	2351	1462
55°	980	1317	980
60°	949	949	949
65°	894	894	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: 4398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	15.7
10°-20°	207.9	34.9
20°-30°	175.6	29.5
30°-40°	81.8	13.7
40°-50°	22.1	3.7
50°-60°	6.3	1.1
60°-70°	4.2	0.7
70°-80°	2.8	0.5
80°-90°	0.8	0.1
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°	477.1	80.2
0°-40°	558.9	93.9
0°-60°	587.4	98.7
0°-90°	595.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1011	1013	1012	1012	1012	94
15°	760	759	756	755	755	208
25°	377	384	383	384	376	174
35°	112	126	139	128	116	75
45°	20	25	32	25	21	18
55°	6	7	8	7	6	5
65°	4	4	4	4	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°	1036.1	1036.1	1036.1	1036.1	1036.1
2.5°	1034.2	1033.2	1033.2	1033.2	1034.2
5°	1010.8	1012.8	1011.8	1011.8	1011.8
7.5°	972.8	971.9	971.9	971.9	971.9
10°	917.3	916.4	915.4	919.3	916.4
12.5°	847.2	847.2	844.3	845.3	842.3
15°	760.5	758.6	755.7	754.7	754.7
17.5°	663.2	663.2	663.2	659.3	661.2
20°	566.8	569.7	565.8	569.7	567.7
22.5°	477.2	474.2	474.2	472.3	471.3
25°	376.9	383.7	382.7	383.7	375.9
27.5°	294.1	299.9	306.7	302.9	297.0
30°	228.8	231.8	241.5	233.7	225.9
32.5°	165.5	176.3	186.0	178.2	169.4
35°	112.0	125.6	139.3	127.6	115.9
37.5°	73.0	83.7	99.3	85.7	75.0
40°	48.7	53.6	72.1	55.5	50.6
42.5°	33.1	38.0	49.7	38.0	35.1
45°	20.4	25.3	32.1	25.3	21.4
47.5°	10.7	15.6	23.4	15.6	12.7
50°	8.8	9.7	15.6	9.7	9.7
52.5°	6.8	7.8	9.7	7.8	7.8
55°	5.8	6.8	7.8	6.8	5.8
57.5°	4.9	5.8	5.8	5.8	4.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	3.9	3.9	3.9	3.9	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	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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