

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: P886161

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 503.0 lumens
Efficiency: N/A
Efficacy: 62.9 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

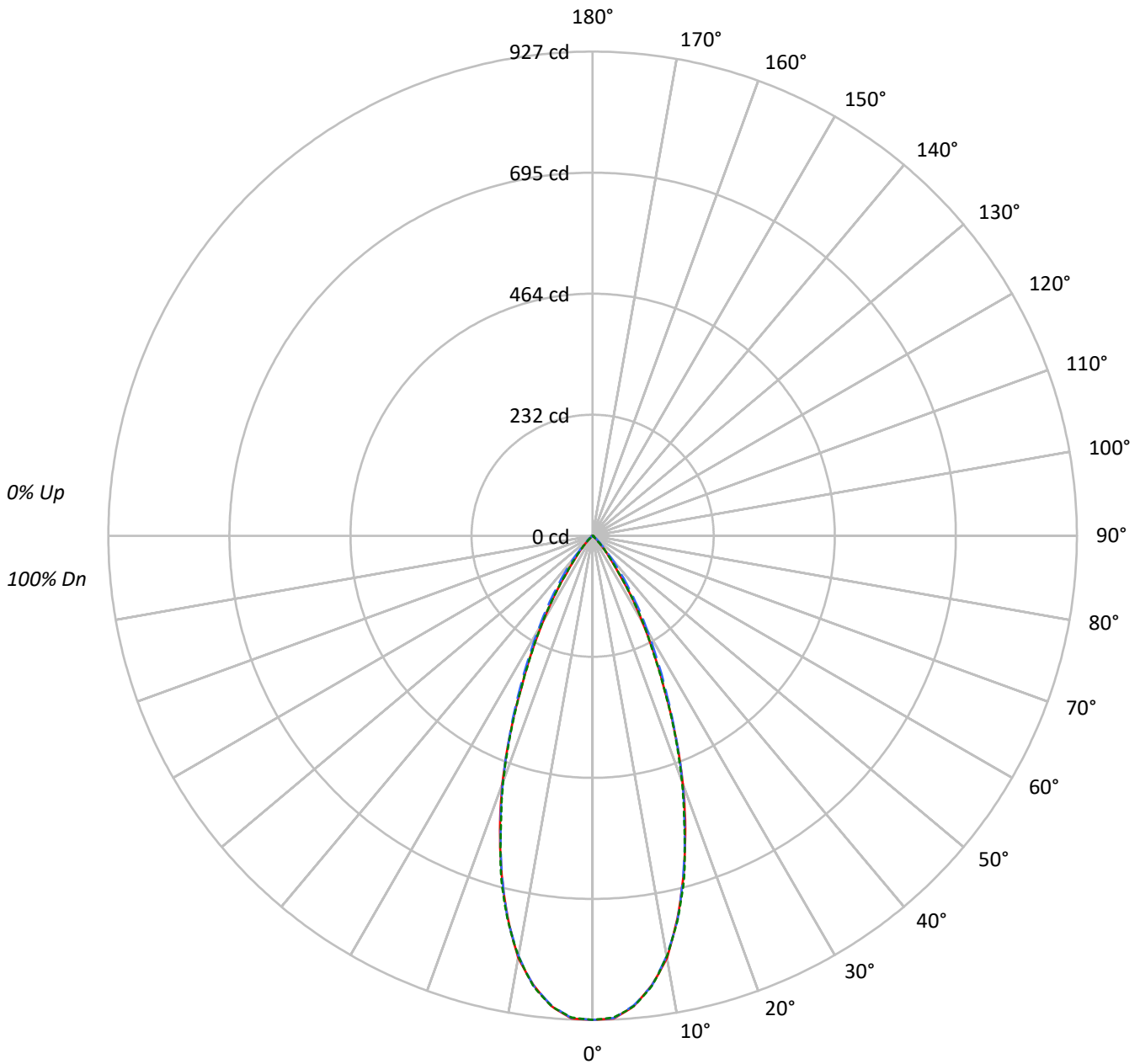
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	89784	89784	89784
5°	87939	87764	87939
10°	80693	80349	80437
15°	67407	67327	67928
20°	52062	51876	51608
25°	34814	36011	34718
30°	21220	23346	21612
35°	10041	13517	10348
40°	4704	7006	4489
45°	1425	2850	1425
50°	392	1040	392
55°	152	152	152
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: 2850 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	16.6
10°-20°	184.7	36.7
20°-30°	153.0	30.4
30°-40°	66.6	13.2
40°-50°	14.0	2.8
50°-60°	1.1	0.2
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°	421.3	83.8
0°-40°	487.9	97.0
0°-60°	503.0	100.0
0°-90°	503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	904	905	902	903	904	84
15°	672	670	671	675	677	185
25°	326	334	337	330	325	151
35°	85	100	114	100	88	60
45°	10	16	21	16	10	11
55°	1	1	1	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°	926.8	926.8	926.8	926.8	926.8
2.5°	925.1	924.2	924.2	924.2	923.3
5°	904.3	905.1	902.5	903.4	904.3
7.5°	867.9	867.9	868.8	870.5	869.6
10°	820.3	816.8	816.8	818.5	817.7
12.5°	750.1	751.8	751.8	755.3	752.7
15°	672.1	670.4	671.3	674.7	677.3
17.5°	589.9	589.0	585.5	586.4	583.8
20°	505.0	503.2	503.2	499.8	500.6
22.5°	414.9	417.5	415.8	416.6	411.4
25°	325.7	334.3	336.9	330.0	324.8
27.5°	253.8	258.1	267.6	260.7	251.2
30°	189.7	198.4	208.7	200.1	193.2
32.5°	137.7	149.0	158.5	150.7	138.6
35°	84.9	100.5	114.3	99.6	87.5
37.5°	55.4	64.1	81.4	63.2	55.4
40°	37.2	40.7	55.4	41.6	35.5
42.5°	22.5	26.0	32.9	26.9	21.7
45°	10.4	15.6	20.8	15.6	10.4
47.5°	4.3	6.9	13.9	6.1	4.3
50°	2.6	3.5	6.9	3.5	2.6
52.5°	1.7	1.7	2.6	1.7	1.7
55°	0.9	0.9	0.9	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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