

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: P886106

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMBB-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 378.7 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

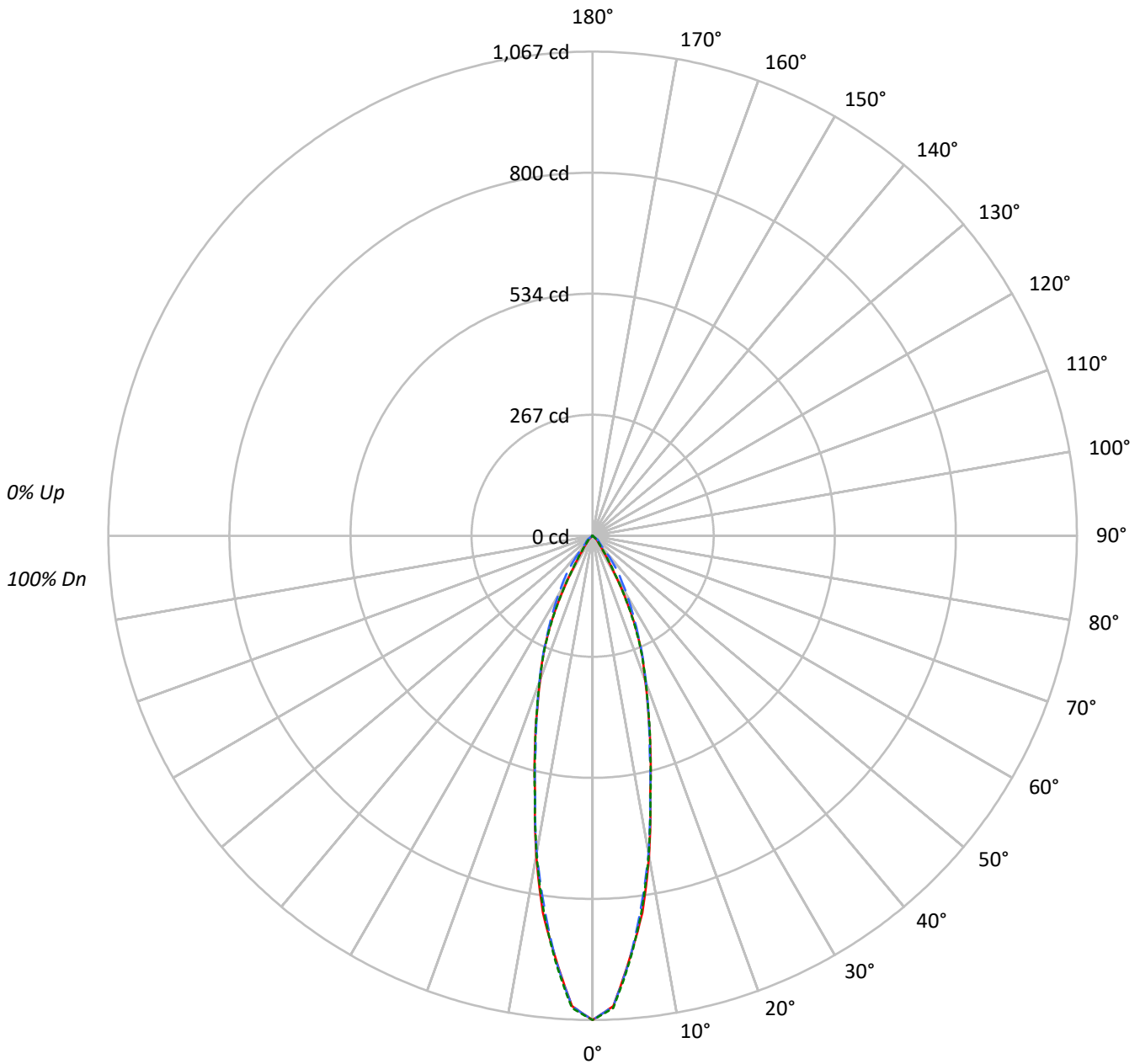
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90		
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86		
4	101	95	90	86	99	93	89	86	91	88	85	90	86	84	88	85	83	82		
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78		
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74		
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71		
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68		
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65		
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	413462	413462	413462
5°	363463	364474	365835
10°	281376	278975	279998
15°	197175	194366	196452
20°	139051	141195	140453
25°	96372	99322	94490
30°	44610	67475	44968
35°	18449	45082	19253
40°	10522	18413	10977
45°	6631	11399	7124
50°	543	9404	543
55°	608	2365	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: 11399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	21.8
10°-20°	137.3	36.3
20°-30°	104.4	27.6
30°-40°	40.7	10.7
40°-50°	12.1	3.2
50°-60°	1.7	0.5
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°	324.2	85.6
0°-40°	364.8	96.3
0°-60°	378.7	100.0
0°-90°	378.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	378.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	934	940	937	935	940	83
15°	492	488	484	492	490	137
25°	225	234	232	232	221	100
35°	39	52	95	54	41	29
45°	12	16	21	16	13	8
55°	1	1	4	1	1	0
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°	1067.0	1067.0	1067.0	1067.0	1067.0
2.5°	1037.5	1038.4	1037.5	1041.9	1041.9
5°	934.4	939.6	937.0	935.3	940.5
7.5°	838.2	826.9	821.7	825.2	831.2
10°	715.1	711.6	709.0	712.5	711.6
12.5°	585.9	588.5	585.9	590.3	587.7
15°	491.5	488.0	484.5	491.5	489.7
17.5°	407.4	410.9	407.4	409.1	409.1
20°	337.2	343.2	342.4	343.2	340.6
22.5°	285.2	284.3	286.0	285.2	282.6
25°	225.4	234.0	232.3	232.3	221.0
27.5°	161.2	179.4	189.0	182.0	159.5
30°	99.7	130.0	150.8	125.7	100.5
32.5°	63.3	83.2	120.5	81.5	64.1
35°	39.0	52.0	95.3	53.7	40.7
37.5°	27.7	37.3	65.9	37.3	27.7
40°	20.8	26.0	36.4	26.0	21.7
42.5°	16.5	19.9	24.3	19.9	17.3
45°	12.1	15.6	20.8	15.6	13.0
47.5°	3.5	10.4	18.2	10.4	5.2
50°	0.9	1.7	15.6	3.5	0.9
52.5°	0.9	0.9	11.3	0.9	0.9
55°	0.9	0.9	3.5	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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