

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: P886166

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

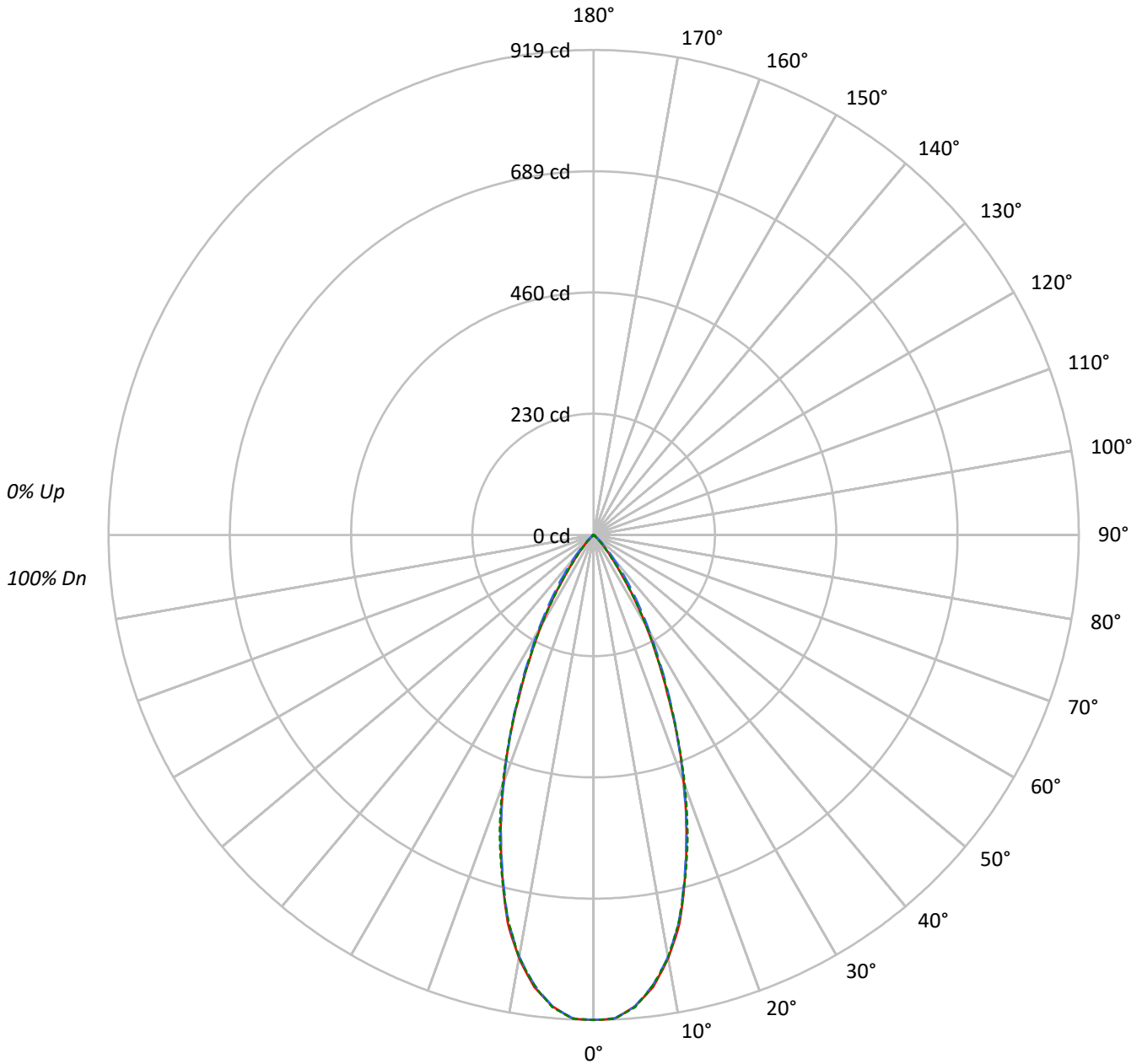
Lumens per Lamp: N/A  
Luminaire Lumens: 507.1 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	356189	356189	356189
5°	348798	348798	349459
10°	320448	319425	319740
15°	268302	267259	269024
20°	205772	205071	207916
25°	140752	144472	142591
30°	88371	94187	89176
35°	44656	56151	45082
40°	20183	29794	19728
45°	7124	12823	6631
50°	1567	5245	2110
55°	608	1148	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: 12823 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	16.3
10°-20°	183.9	36.3
20°-30°	154.0	30.4
30°-40°	69.5	13.7
40°-50°	15.5	3.1
50°-60°	1.3	0.3
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°	420.8	83.0
0°-40°	490.3	96.7
0°-60°	507.1	100.0
0°-90°	507.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	507.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	897	897	897	896	898	83
15°	669	668	666	671	671	184
25°	329	336	338	335	334	152
35°	94	107	119	106	95	64
45°	13	17	23	16	12	12
55°	1	1	2	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°	919.2	919.2	919.2	919.2	919.2
2.5°	917.5	917.5	916.6	916.6	917.5
5°	896.7	896.7	896.7	895.8	898.4
7.5°	863.7	862.9	860.3	860.3	861.1
10°	814.4	812.6	811.8	814.4	812.6
12.5°	752.9	750.3	748.5	749.4	748.5
15°	668.8	668.0	666.2	671.4	670.6
17.5°	584.8	582.2	584.8	583.9	591.7
20°	499.0	501.6	497.3	500.7	504.2
22.5°	414.1	417.6	414.1	415.0	415.8
25°	329.2	336.1	337.9	335.3	333.5
27.5°	258.2	264.2	267.7	264.2	259.0
30°	197.5	200.1	210.5	202.7	199.3
32.5°	143.8	153.3	161.1	153.3	142.9
35°	94.4	107.4	118.7	105.7	95.3
37.5°	60.6	68.4	84.9	69.3	59.8
40°	39.9	43.3	58.9	44.2	39.0
42.5°	25.1	29.5	38.1	28.6	24.3
45°	13.0	17.3	23.4	16.5	12.1
47.5°	4.3	7.8	14.7	8.7	5.2
50°	2.6	3.5	8.7	3.5	3.5
52.5°	1.7	1.7	3.5	1.7	1.7
55°	0.9	0.9	1.7	0.9	0.9
57.5°	0.0	0.0	0.9	0.9	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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