

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: P886224

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-5000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 543.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

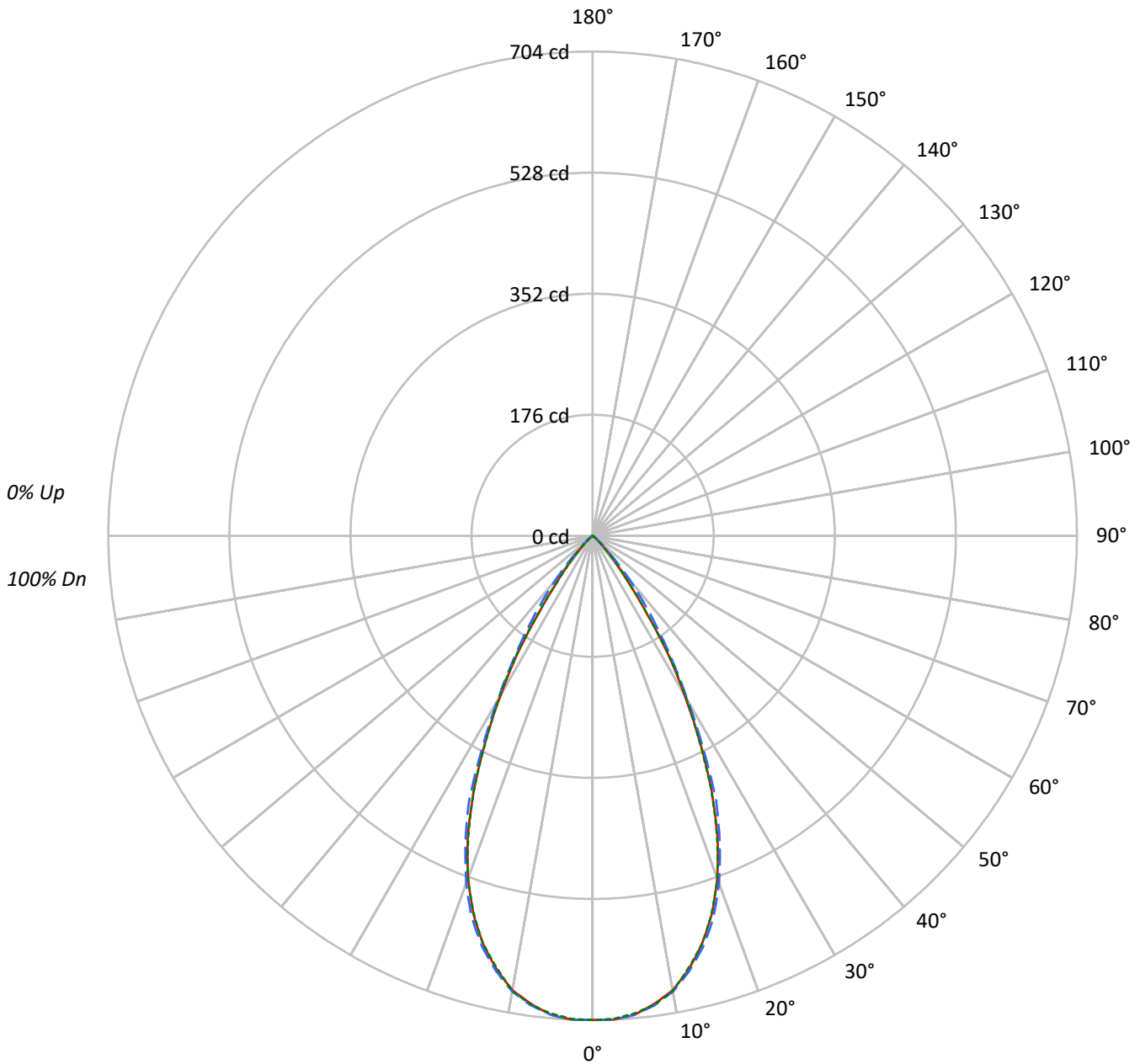
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83																			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68																			
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	64																			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57																			
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54																			

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

	0°	45°	90°
0°	272838	272838	272838
5°	271975	271975	271197
10°	263984	264771	264377
15°	246518	248444	246518
20°	218431	221648	218431
25°	174871	181541	174444
30°	119379	123763	121124
35°	63578	77864	64950
40°	28074	42339	28580
45°	10686	15454	10686
50°	2954	5305	3496
55°	676	1959	676
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: 15454 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	12.1
10°-20°	171.4	31.6
20°-30°	186.0	34.3
30°-40°	96.6	17.8
40°-50°	21.1	3.9
50°-60°	2.0	0.4
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°	423.2	78.0
0°-40°	519.8	95.7
0°-60°	543.0	100.0
0°-90°	543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	699	698	699	698	697	66
15°	614	616	619	615	614	171
25°	409	412	425	411	408	184
35°	134	151	165	154	137	89
45°	20	21	28	21	20	18
55°	1	2	3	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°	704.1	704.1	704.1	704.1	704.1
2.5°	704.1	703.1	704.1	704.1	703.1
5°	699.2	698.2	699.2	698.2	697.2
7.5°	686.5	687.5	688.5	687.5	687.5
10°	670.9	671.9	672.9	671.9	671.9
12.5°	645.6	647.6	648.5	647.6	643.7
15°	614.5	616.4	619.3	615.4	614.5
17.5°	576.5	581.4	583.3	579.4	575.5
20°	529.7	534.6	537.5	534.6	529.7
22.5°	474.2	481.1	483.0	480.1	472.3
25°	409.0	411.9	424.6	410.9	408.0
27.5°	336.9	341.8	347.6	342.8	335.0
30°	266.8	271.7	276.6	273.6	270.7
32.5°	203.5	215.2	216.2	212.3	207.4
35°	134.4	150.9	164.6	153.9	137.3
37.5°	84.7	95.4	119.8	96.4	85.7
40°	55.5	60.4	83.7	61.3	56.5
42.5°	35.1	39.0	51.6	38.0	35.1
45°	19.5	21.4	28.2	21.4	19.5
47.5°	9.7	11.7	16.6	11.7	10.7
50°	4.9	6.8	8.8	6.8	5.8
52.5°	1.9	3.9	4.9	3.9	2.9
55°	1.0	1.9	2.9	1.0	1.0
57.5°	0.0	0.0	1.0	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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