

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: P886225

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

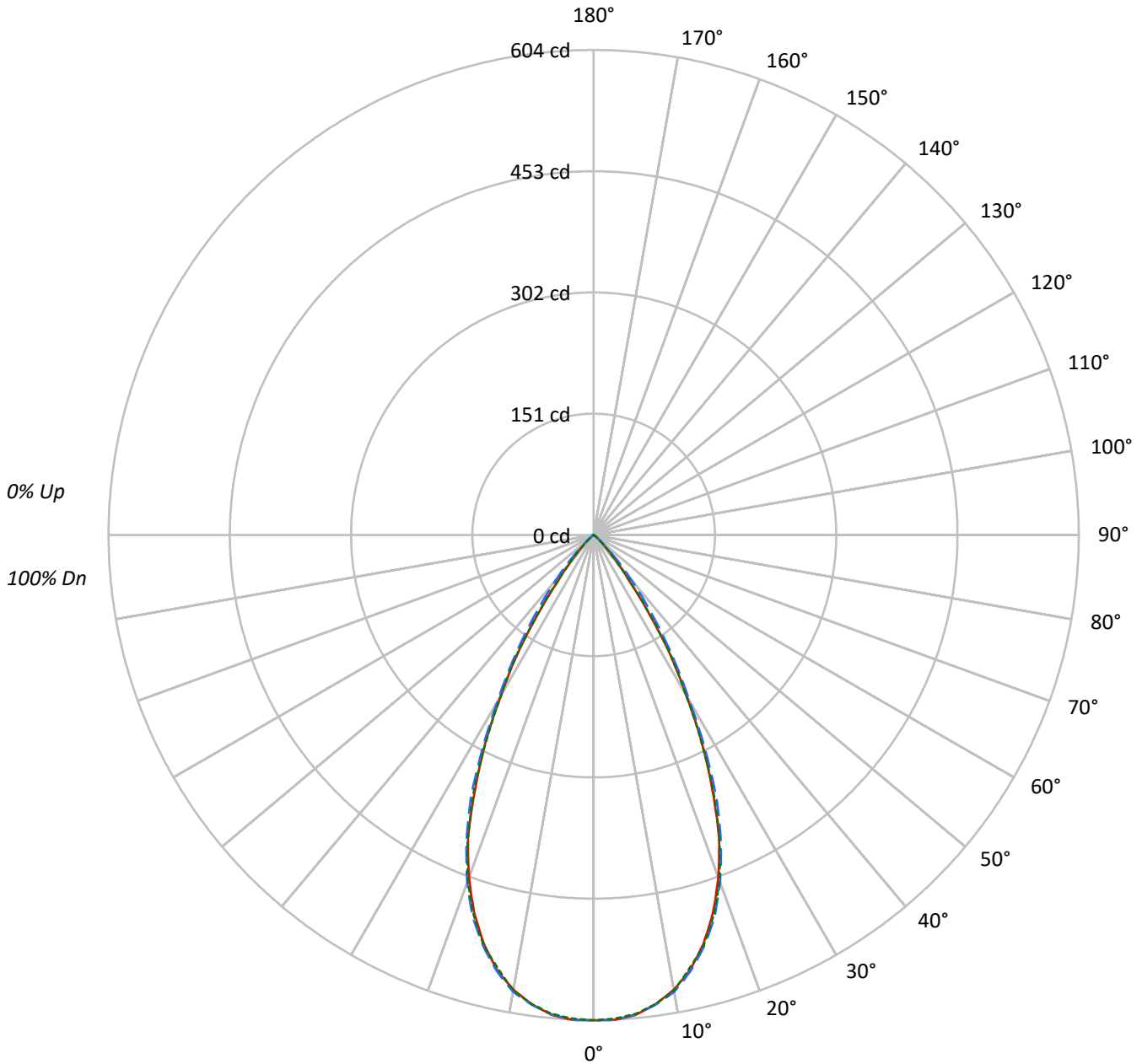
Lumens per Lamp: N/A  
Luminaire Lumens: 469.7 lumens  
Efficiency: N/A  
Efficacy: 58.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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					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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	83	83	83		
	4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	73	73	73		
	6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68	68	68	68		
	7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57	57	57	57	57	57		
	10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54	54	54	54	54	54		

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

	0°	45°	90°
0°	234243	234243	234243
5°	233504	233193	232882
10°	226328	227312	226643
15°	211576	212900	212258
20°	187050	189813	188782
25°	149132	154862	150928
30°	103181	106940	102778
35°	57901	68214	59084
40°	25039	36876	25039
45°	9645	14687	9645
50°	3557	5064	3014
55°	540	1689	1148
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: 14687 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	12.0
10°-20°	147.0	31.3
20°-30°	160.2	34.1
30°-40°	84.8	18.1
40°-50°	19.1	4.1
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°	363.7	77.4
0°-40°	448.5	95.5
0°-60°	469.7	100.0
0°-90°	469.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	600	599	600	599	599	56
15°	527	527	531	528	529	146
25°	349	359	362	359	353	158
35°	122	135	144	134	125	79
45°	18	20	27	20	18	16
55°	1	2	2	2	2	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°	604.5	604.5	604.5	604.5	604.5
2.5°	604.5	603.7	604.5	603.7	602.9
5°	600.3	598.7	599.5	598.7	598.7
7.5°	589.4	589.4	590.3	590.3	589.4
10°	575.2	576.9	577.7	576.9	576.0
12.5°	555.1	553.4	556.7	555.1	552.5
15°	527.4	527.4	530.7	528.2	529.1
17.5°	493.9	498.0	499.7	496.4	496.4
20°	453.6	457.8	460.3	460.3	457.8
22.5°	408.3	415.0	414.2	414.2	409.2
25°	348.8	358.9	362.2	358.9	353.0
27.5°	291.8	290.9	299.3	295.1	290.1
30°	230.6	234.8	239.0	235.6	229.7
32.5°	178.6	185.3	189.5	183.6	180.3
35°	122.4	135.0	144.2	134.2	124.9
37.5°	75.5	87.2	104.0	88.9	78.0
40°	49.5	54.5	72.9	55.3	49.5
42.5°	31.0	34.4	47.0	34.4	31.0
45°	17.6	20.1	26.8	20.1	17.6
47.5°	10.1	10.9	14.3	10.9	9.2
50°	5.9	6.7	8.4	5.9	5.0
52.5°	2.5	3.4	4.2	3.4	2.5
55°	0.8	1.7	2.5	1.7	1.7
57.5°	0.0	0.8	0.8	0.8	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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