

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: P886184

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-5000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 585.7 lumens  
Efficiency: N/A  
Efficacy: 73.2 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

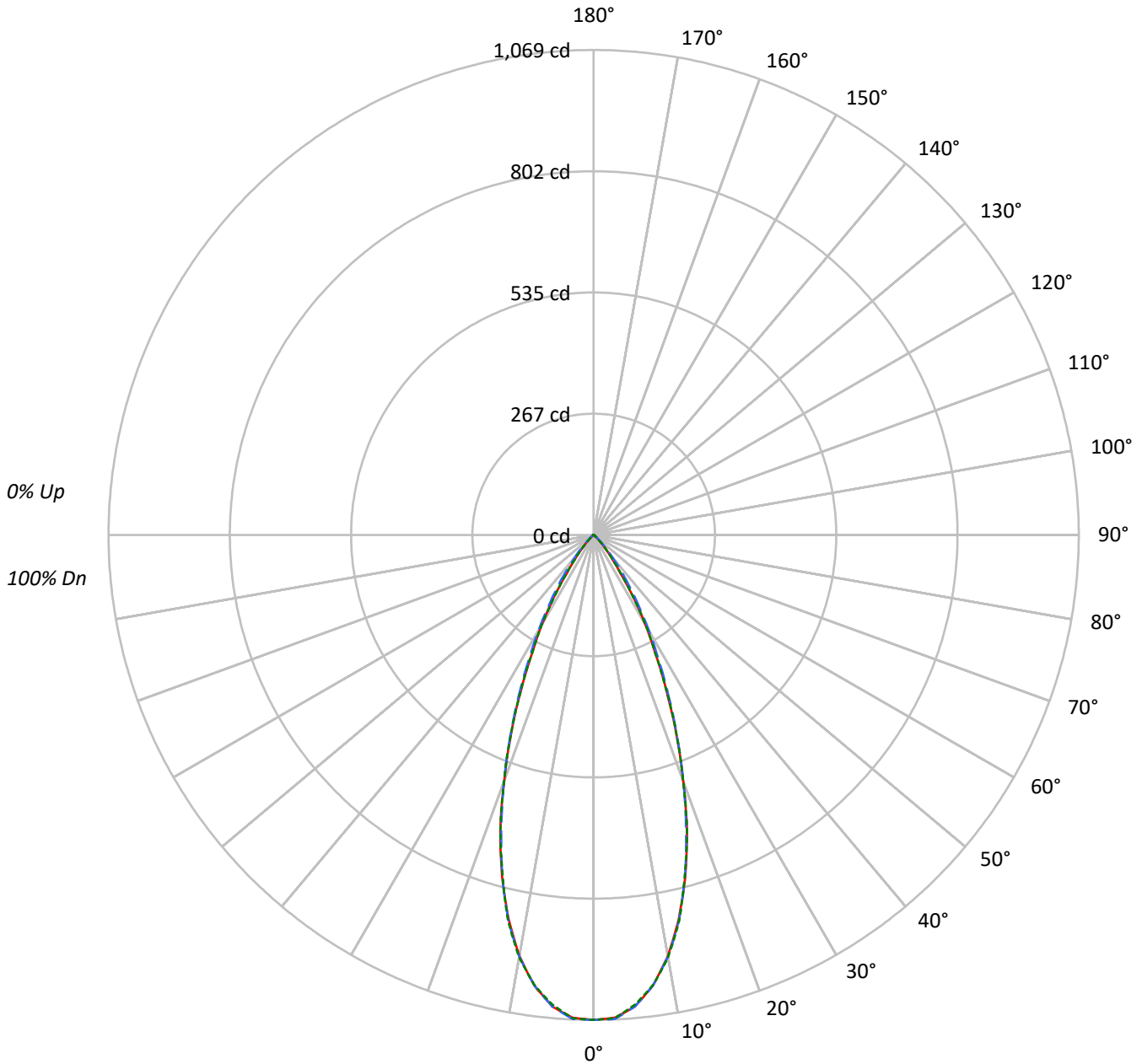
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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

	0°	45°	90°
0°	103560	103560	103560
5°	101495	101495	101116
10°	92694	92792	92979
15°	78188	77988	77797
20°	59474	59577	59474
25°	40522	41666	40725
30°	25404	27037	25616
35°	12098	15906	12560
40°	5792	8131	5665
45°	2000	3466	2000
50°	738	1326	738
55°	321	321	321
60°	194	194	194
65°	229	229	229
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: 3466 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.3	16.4
10°-20°	213.3	36.4
20°-30°	177.2	30.3
30°-40°	78.4	13.4
40°-50°	17.5	3.0
50°-60°	2.1	0.4
60°-70°	0.7	0.1
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°	486.9	83.1
0°-40°	565.4	96.5
0°-60°	585.0	99.9
0°-90°	585.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1044	1044	1044	1043	1040	96
15°	780	775	778	775	776	214
25°	379	387	390	388	381	175
35°	102	119	134	119	106	71
45°	15	20	25	18	15	14
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1065.1	1066.1	1068.0	1065.1	1066.1
5°	1043.7	1043.7	1043.7	1042.7	1039.8
7.5°	1001.8	1000.8	1001.8	999.8	1000.8
10°	942.3	945.2	943.3	943.3	945.2
12.5°	866.3	875.1	869.2	868.3	871.2
15°	779.6	774.7	777.6	774.7	775.7
17.5°	684.1	674.3	676.3	680.2	684.1
20°	576.9	578.8	577.9	578.8	576.9
22.5°	476.5	482.4	480.4	480.4	478.5
25°	379.1	386.9	389.8	387.8	381.0
27.5°	294.3	299.2	309.9	300.1	293.3
30°	227.1	231.9	241.7	231.0	229.0
32.5°	162.7	173.5	183.2	172.5	159.8
35°	102.3	118.9	134.5	118.9	106.2
37.5°	67.2	76.0	96.5	76.0	69.2
40°	45.8	50.7	64.3	49.7	44.8
42.5°	28.3	33.1	40.9	32.2	28.3
45°	14.6	19.5	25.3	18.5	14.6
47.5°	7.8	8.8	16.6	9.7	6.8
50°	4.9	4.9	8.8	4.9	4.9
52.5°	2.9	2.9	3.9	2.9	2.9
55°	1.9	1.9	1.9	1.9	1.9
57.5°	1.0	1.0	1.9	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	0.0	0.0	1.0
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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