

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: P886171

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 526.1 lumens  
Efficiency: N/A  
Efficacy: 65.8 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

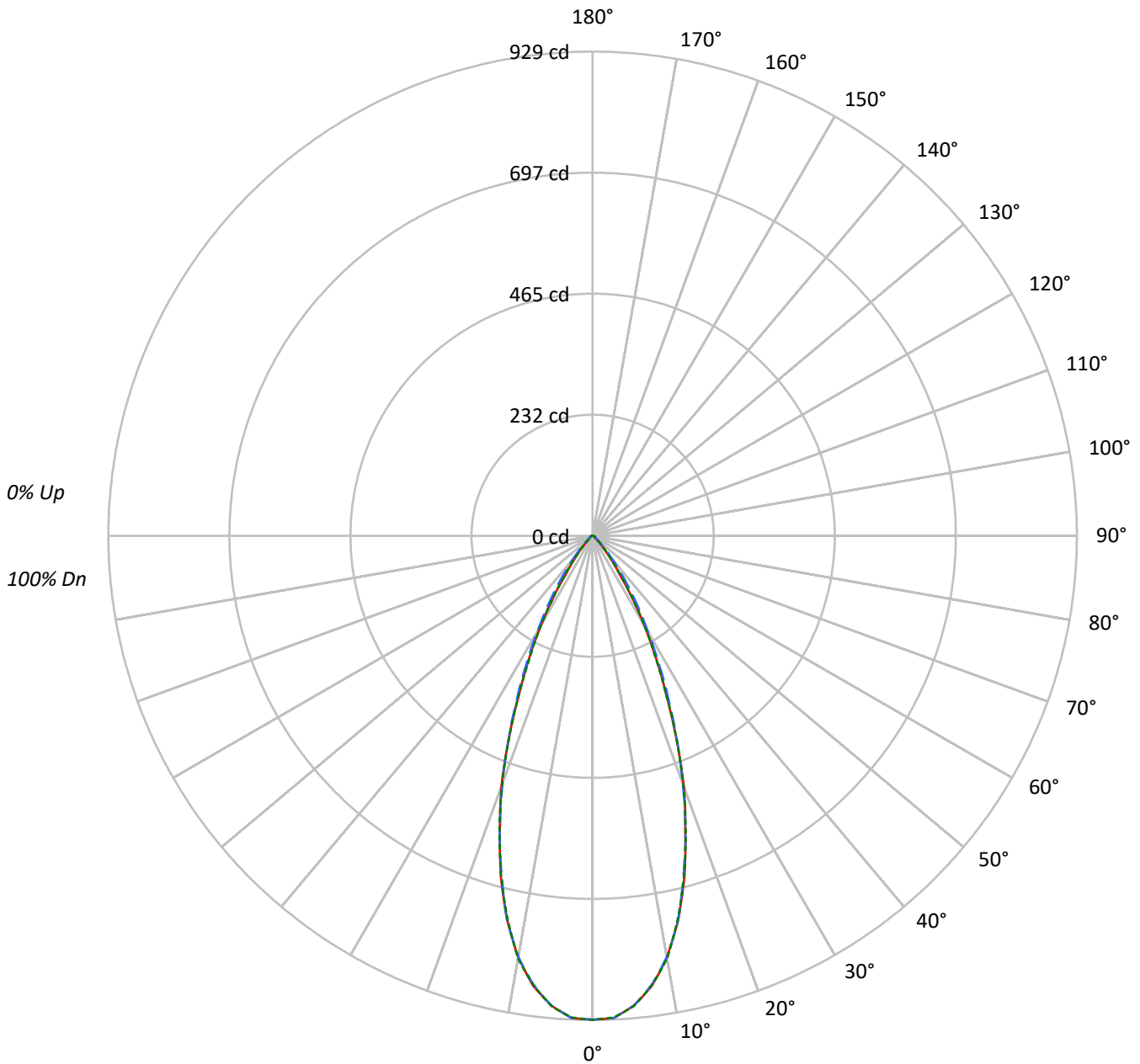
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66								
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63								
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60								
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57								

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

	0°	45°	90°
0°	89959	89959	89959
5°	88027	88027	88114
10°	80791	80703	81047
15°	68139	67617	67878
20°	52732	52103	52371
25°	35434	36535	35434
30°	22171	23625	22070
35°	10644	14121	11365
40°	5362	7436	5362
45°	2137	3672	2370
50°	1176	1959	1311
55°	878	1165	1030
60°	833	1008	833
65°	802	986	802
70°	736	991	736
75°	973	973	973
80°	948	948	948
85°	1000	1000	1000

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 3672 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	15.9
10°-20°	185.9	35.3
20°-30°	155.1	29.5
30°-40°	69.8	13.3
40°-50°	18.4	3.5
50°-60°	6.0	1.1
60°-70°	4.0	0.8
70°-80°	2.5	0.5
80°-90°	0.8	0.2
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°	424.7	80.7
0°-40°	494.5	94.0
0°-60°	518.8	98.6
0°-90°	526.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	905	906	905	905	906	84
15°	679	677	674	675	677	186
25°	332	338	342	338	332	154
35°	90	105	119	106	96	63
45°	16	21	27	21	17	15
55°	5	6	7	6	6	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	928.6	928.6	928.6	928.6	928.6
2.5°	926.0	926.0	926.0	926.9	925.1
5°	905.2	906.1	905.2	905.2	906.1
7.5°	871.5	871.5	868.9	869.8	869.8
10°	821.3	819.6	820.4	819.6	823.9
12.5°	756.4	757.2	757.2	759.0	753.8
15°	679.4	676.8	674.2	675.0	676.8
17.5°	591.1	591.1	591.9	590.2	594.5
20°	511.5	508.0	505.4	501.9	508.0
22.5°	418.0	419.7	420.6	418.0	418.9
25°	331.5	337.5	341.8	338.4	331.5
27.5°	261.4	261.4	272.6	264.8	257.0
30°	198.2	203.4	211.2	203.4	197.3
32.5°	141.1	151.4	161.8	152.3	141.9
35°	90.0	104.7	119.4	106.4	96.1
37.5°	61.4	70.1	86.5	71.0	64.0
40°	42.4	46.7	58.8	47.6	42.4
42.5°	27.7	32.0	39.8	32.0	27.7
45°	15.6	20.8	26.8	20.8	17.3
47.5°	9.5	12.1	19.0	13.0	11.3
50°	7.8	9.5	13.0	8.7	8.7
52.5°	6.9	7.8	8.7	7.8	6.9
55°	5.2	6.1	6.9	6.1	6.1
57.5°	5.2	5.2	6.1	5.2	5.2
60°	4.3	5.2	5.2	5.2	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.5	4.3	4.3	4.3	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.6	3.5	3.5	3.5	2.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.9	0.0	0.9	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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