

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: P886119

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-5000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

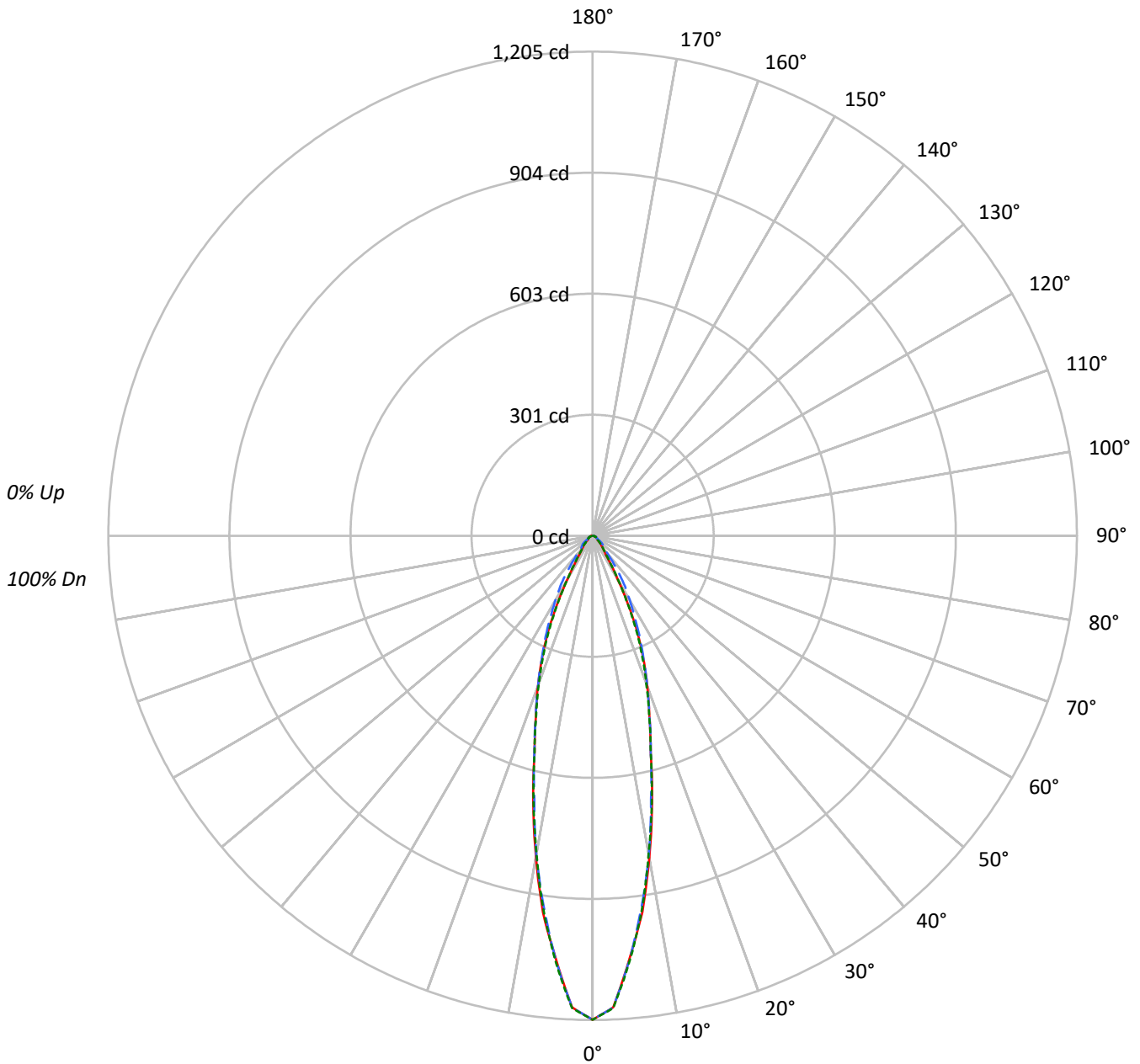
Lumens per Lamp: N/A  
Luminaire Lumens: 482.1 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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								
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87								
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82								
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77								
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72								
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69								
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65								
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62								
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59								
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57								

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

	0°	45°	90°
0°	466782	466782	466782
5°	410296	411424	412941
10°	319700	317418	315883
15°	223692	224454	223692
20°	163710	163710	160906
25°	111507	118134	107745
30°	55752	82285	57452
35°	27153	53833	28525
40°	19172	29035	19677
45°	15454	20769	14413
50°	9404	18748	9404
55°	9188	11823	9188
60°	9067	9067	9067
65°	8894	8894	8894
70°	7704	8837	8837
75°	8684	8684	8684
80°	8703	6471	8703
85°	8448	4446	8448

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 20769 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	19.3
10°-20°	157.3	32.6
20°-30°	121.5	25.2
30°-40°	54.0	11.2
40°-50°	24.9	5.2
50°-60°	13.7	2.8
60°-70°	9.7	2.0
70°-80°	6.0	1.2
80°-90°	1.9	0.4
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°	372.0	77.2
0°-40°	426.0	88.4
0°-60°	464.6	96.4
0°-90°	482.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1055	1059	1058	1060	1062	94
15°	558	560	560	560	558	158
25°	261	272	276	267	252	117
35°	57	74	114	76	60	41
45°	28	32	38	31	26	21
55°	14	14	18	14	14	12
65°	10	10	10	10	10	10
75°	6	6	6	6	6	6
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1174.5	1173.5	1174.5	1176.4	1176.4
5°	1054.8	1058.7	1057.7	1059.7	1061.6
7.5°	945.8	937.0	931.2	933.2	939.0
10°	812.5	801.8	806.7	803.7	802.8
12.5°	683.1	672.4	670.4	673.4	679.2
15°	557.6	560.5	559.5	560.5	557.6
17.5°	470.0	469.0	470.0	470.0	467.1
20°	397.0	394.1	397.0	395.1	390.2
22.5°	328.9	332.8	330.8	331.8	320.1
25°	260.8	272.5	276.3	266.6	252.0
27.5°	188.8	210.2	223.8	205.3	182.9
30°	124.6	152.8	183.9	149.9	128.4
32.5°	84.7	105.1	149.9	107.0	86.6
35°	57.4	74.0	113.8	75.9	60.3
37.5°	45.7	55.5	81.7	56.4	46.7
40°	37.9	44.8	57.4	44.8	38.9
42.5°	33.1	37.0	43.8	37.0	34.1
45°	28.2	32.1	37.9	31.1	26.3
47.5°	20.4	25.3	34.1	24.3	21.4
50°	15.6	17.5	31.1	19.5	15.6
52.5°	14.6	14.6	25.3	14.6	14.6
55°	13.6	13.6	17.5	13.6	13.6
57.5°	12.6	12.6	13.6	13.6	12.6
60°	11.7	11.7	11.7	12.6	11.7
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.7	9.7	9.7	9.7	9.7
67.5°	8.8	8.8	8.8	8.8	8.8
70°	6.8	7.8	7.8	7.8	7.8
72.5°	5.8	6.8	6.8	6.8	5.8
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.9	4.9	4.9	4.9	3.9
80°	3.9	3.9	2.9	3.9	3.9
82.5°	1.9	2.9	1.9	2.9	1.9
85°	1.9	1.9	1.0	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
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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