

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: P886178

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-4000K

Issue Date: 6/20/2024

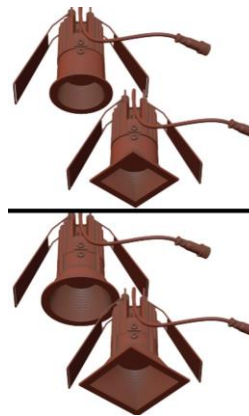
**Test Information**

Test Method: LM-79-2019  
Report Number: P886178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-4000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 565.7 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

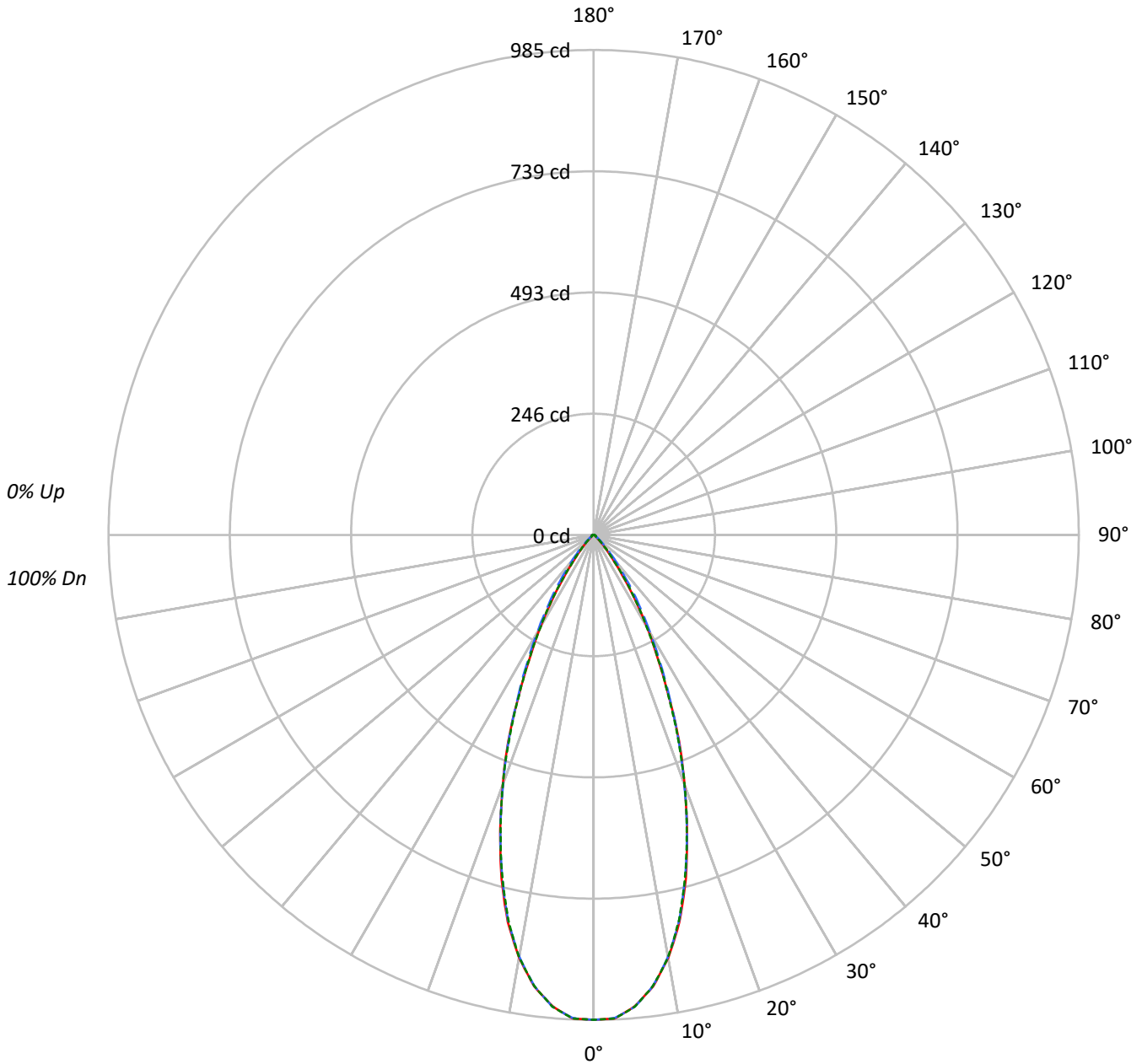
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83					83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78					78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74					74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70					70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66					66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63					63			
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60					60			
10	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57					57			

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

	0°	45°	90°
0°	95413	95413	95413
5°	93433	93521	93521
10°	85769	85592	85680
15°	72502	72040	71950
20°	55536	55443	55629
25°	38288	38887	38192
30°	24330	25684	24017
35°	12583	15658	13033
40°	5855	8663	6083
45°	2658	4179	2795
50°	1251	2231	1402
55°	946	1250	946
60°	891	891	891
65°	848	848	848
70°	793	1048	793
75°	1048	1048	1048
80°	1060	1060	1060
85°	1000	1000	1000

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 4179 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	15.7
10°-20°	197.6	34.9
20°-30°	167.0	29.5
30°-40°	77.8	13.7
40°-50°	21.0	3.7
50°-60°	6.1	1.1
60°-70°	4.0	0.7
70°-80°	2.7	0.5
80°-90°	0.7	0.1
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°	453.5	80.2
0°-40°	531.3	93.9
0°-60°	558.3	98.7
0°-90°	565.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	961	963	962	962	962	89
15°	723	721	718	717	717	198
25°	358	365	364	365	357	166
35°	106	119	132	121	110	71
45°	19	24	30	24	20	17
55°	6	6	7	6	6	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	984.9	984.9	984.9	984.9	984.9
2.5°	983.0	982.1	982.1	982.1	983.0
5°	960.8	962.7	961.7	961.7	961.7
7.5°	924.7	923.8	923.8	923.8	923.8
10°	871.9	871.0	870.1	873.8	871.0
12.5°	805.3	805.3	802.5	803.4	800.7
15°	722.9	721.1	718.3	717.4	717.4
17.5°	630.4	630.4	630.4	626.7	628.5
20°	538.7	541.5	537.8	541.5	539.6
22.5°	453.6	450.8	450.8	448.9	448.0
25°	358.2	364.7	363.8	364.7	357.3
27.5°	279.5	285.1	291.6	287.9	282.3
30°	217.5	220.3	229.6	222.2	214.7
32.5°	157.4	167.5	176.8	169.4	161.1
35°	106.4	119.4	132.4	121.3	110.2
37.5°	69.4	79.6	94.4	81.5	71.3
40°	46.3	50.9	68.5	52.8	48.1
42.5°	31.5	36.1	47.2	36.1	33.3
45°	19.4	24.1	30.5	24.1	20.4
47.5°	10.2	14.8	22.2	14.8	12.0
50°	8.3	9.3	14.8	9.3	9.3
52.5°	6.5	7.4	9.3	7.4	7.4
55°	5.6	6.5	7.4	6.5	5.6
57.5°	4.6	5.6	5.6	5.6	4.6
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	2.8	3.7	3.7	3.7	2.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
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	0.0	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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