

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: P886450

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2RDSLb-400LM-2700K

Issue Date: 7/18/2024

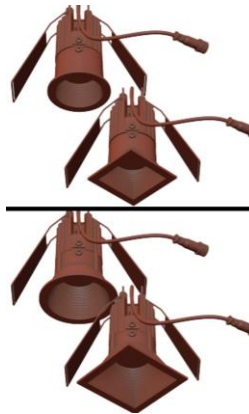
**Test Information**

Test Method: LM-79-2019  
Report Number: P886450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-75)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2RDSL B-400LM-2700K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

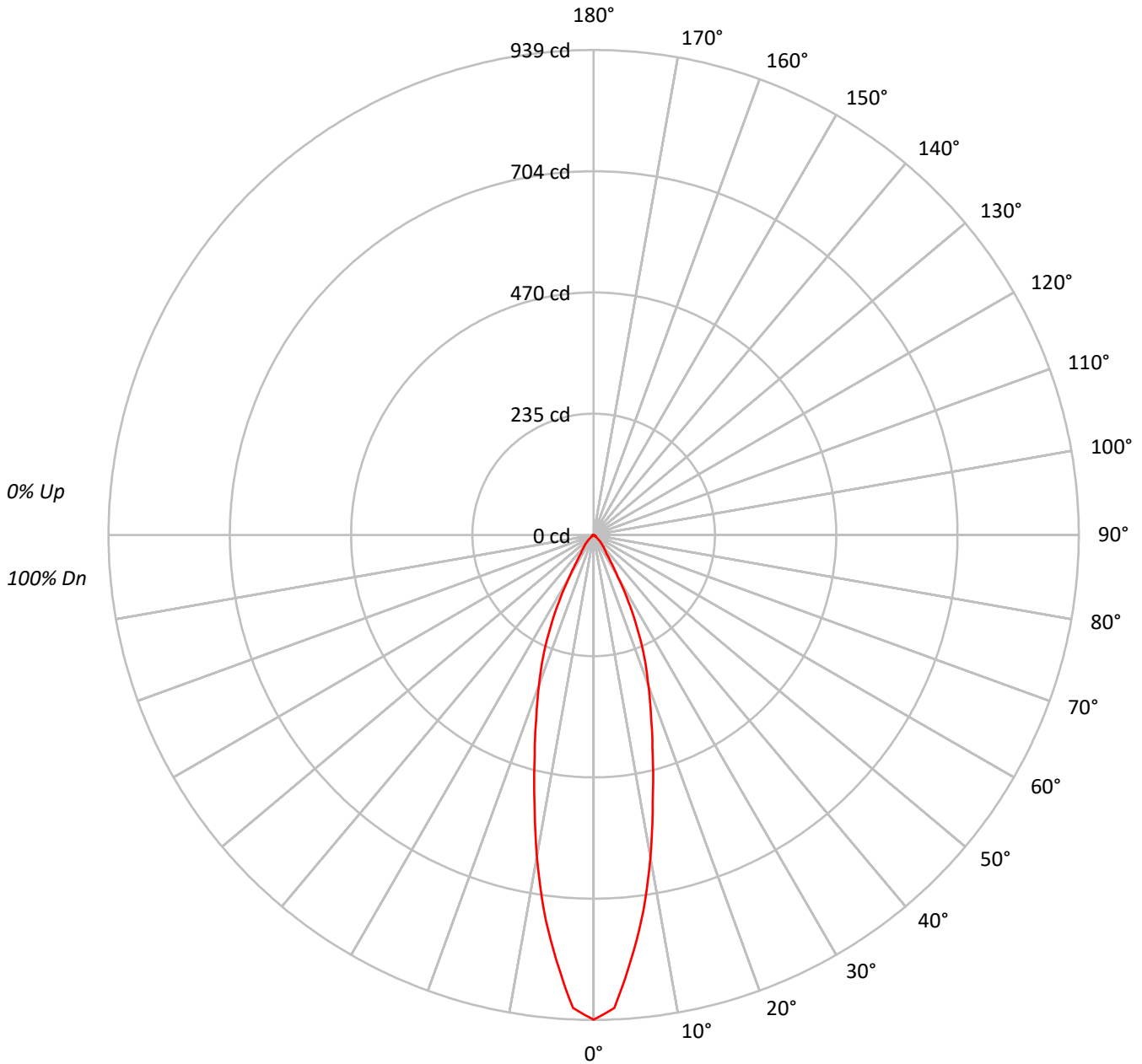
Lumens per Lamp: N/A  
Luminaire Lumens: 335.3 lumens  
Efficiency: N/A  
Efficacy: 54.1 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77
6	93	85	80	76	92	85	80	76	83	79	76	82	78	75	81	77	75	74	74	74	74
7	89	81	76	73	88	81	76	73	80	75	72	78	75	72	77	74	71	70	70	70	70
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67	67	67	67
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64	64	64	64
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62

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

	0°
0°	463135
5°	409484
10°	316877
15°	225000
20°	162238
25°	108877
30°	53040
35°	25658
40°	17647
45°	11583
50°	4452
55°	3097
60°	2862
65°	1634
70°	2020
75°	1334
80°	1989
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.0	21.8
10°-20°	123.6	36.9
20°-30°	89.8	26.8
30°-40°	30.3	9.0
40°-50°	12.3	3.7
50°-60°	3.5	1.1
60°-70°	1.8	0.5
70°-80°	0.8	0.2
80°-90°	0.1	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°	286.4	85.4
0°-40°	316.7	94.5
0°-60°	332.6	99.2
0°-90°	335.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	335.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	939	
5°	827	73
15°	440	124
25°	200	90
35°	43	30
45°	17	12
55°	4	4
65°	1	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	938.7
2.5°	917.0
5°	826.8
7.5°	735.8
10°	632.5
12.5°	528.6
15°	440.5
17.5°	369.7
20°	309.0
22.5°	256.3
25°	200.0
27.5°	144.4
30°	93.1
32.5°	60.7
35°	42.6
37.5°	33.9
40°	27.4
42.5°	22.4
45°	16.6
47.5°	9.4
50°	5.8
52.5°	5.1
55°	3.6
57.5°	2.9
60°	2.9
62.5°	2.2
65°	1.4
67.5°	1.4
70°	1.4
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)