

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: P887092

Luminaire Tested: ML412LSFLD2W1E-TIR4D25NFL-TL4RDDB-600LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P887092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML412LSFLD2W1E-TIR4D25NFL-TL4RDMB-600LM-2700K
Description: 4IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 629.8 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.51
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

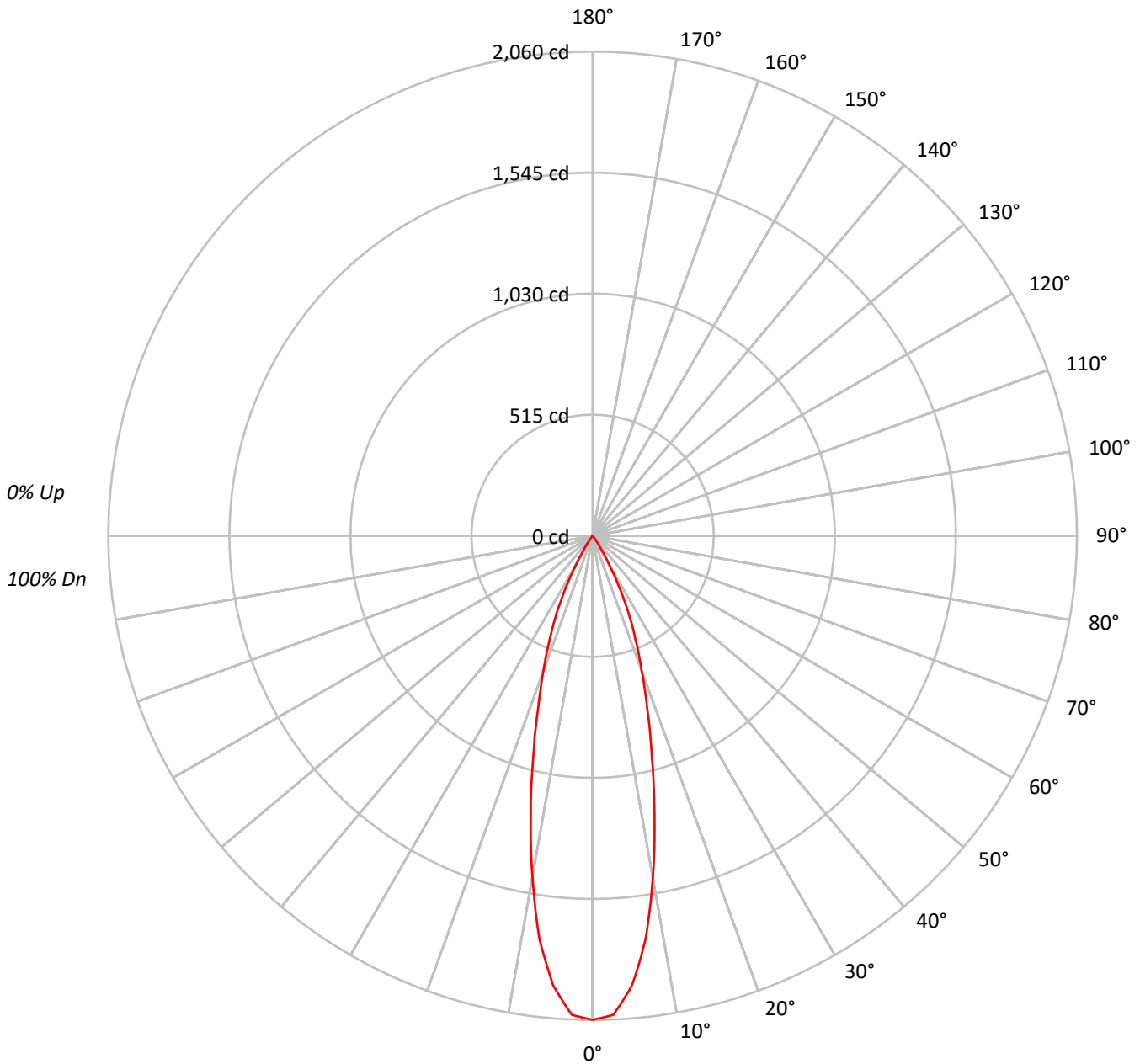
Input Watts (W): 9.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	88	87	85																			
5	100	93	89	86	98	93	88	85	91	87	85	89	86	84	88	85	83	82																			
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79																			
7	93	86	82	79	92	86	82	78	85	81	78	84	80	78	83	80	77	76																			
8	90	83	79	76	89	83	78	76	82	78	75	81	77	75	80	77	75	74																			
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	74	72	71																			
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	254080
5°	237840
10°	184741
15°	124453
20°	80083
25°	49049
30°	19427
35°	4412
40°	741
45°	174
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 174 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	26.8
10°-20°	271.2	43.1
20°-30°	161.7	25.7
30°-40°	26.6	4.2
40°-50°	1.2	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
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°	602.0	95.6
0°-40°	628.6	99.8
0°-60°	629.8	100.0
0°-90°	629.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2060	
5°	1921	169
15°	975	271
25°	360	162
35°	29	27
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2059.9
2.5°	2039.8
5°	1920.9
7.5°	1730.4
10°	1475.0
12.5°	1215.0
15°	974.6
17.5°	772.3
20°	610.1
22.5°	476.2
25°	360.4
27.5°	243.0
30°	136.4
32.5°	69.0
35°	29.3
37.5°	10.3
40°	4.6
42.5°	2.6
45°	1.0
47.5°	0.5
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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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