

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: P677535

Luminaire Tested: ML4DM06FL9FS1E-TL40R2GMW-5000K

Issue Date: 4/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P677535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2304-979-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML4DM06FL9FS1E-TL40R2GMW-5000K
Description: DIRECT MOUNT, CONICAL LENS TRIM
Light Source: (1) SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

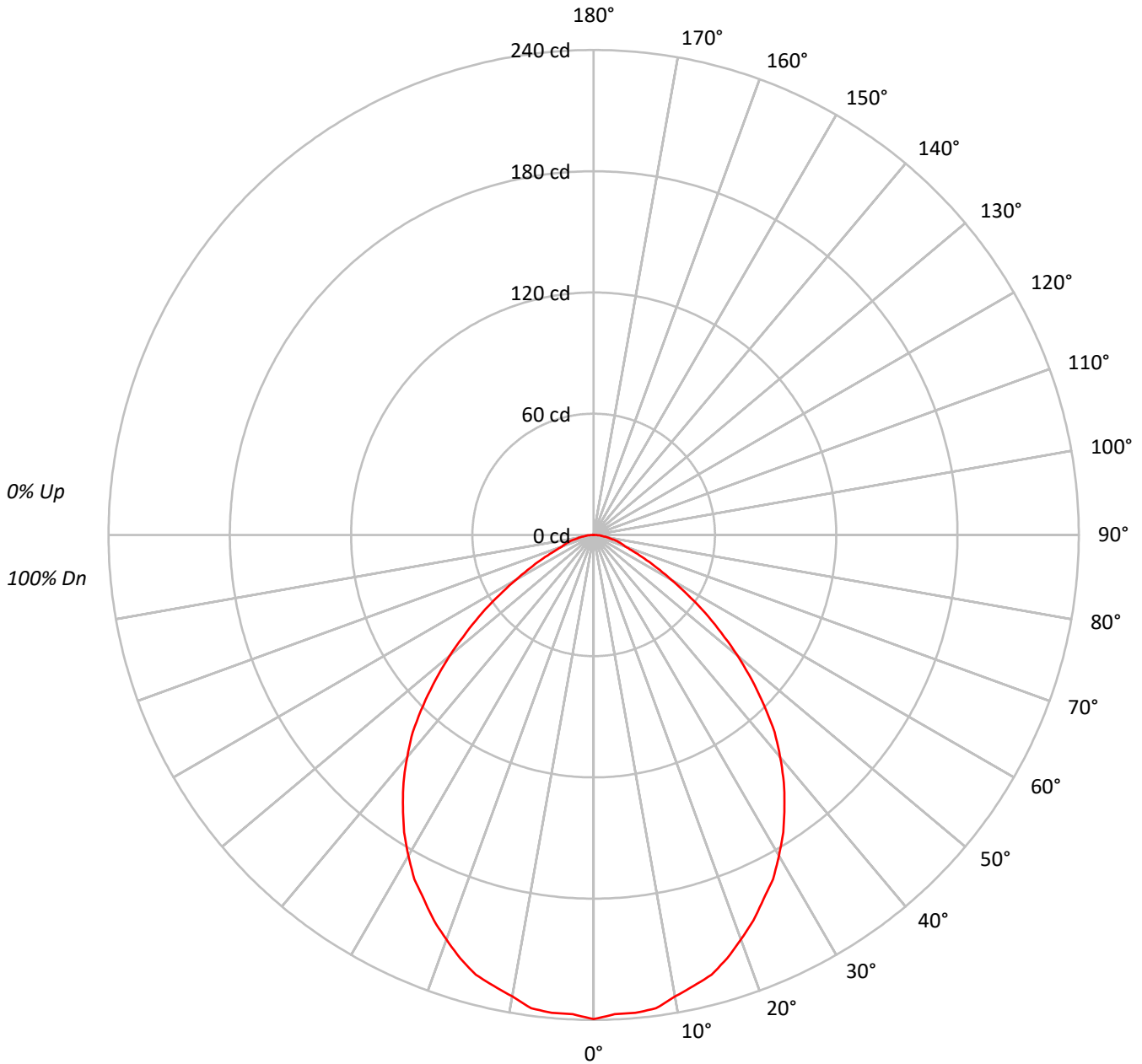
Lumens per Lamp: N/A
Luminaire Lumens: 475.8 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.3
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									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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59																			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47																			
7	70	58	50	45	69	57	50	45	56	49	44	55	48	44	53	48	44	42																			
8	66	53	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29554
5°	29394
10°	29045
15°	28770
20°	27972
25°	27056
30°	26107
35°	24770
40°	23106
45°	20810
50°	17808
55°	14494
60°	10904
65°	8055
70°	5987
75°	5767
80°	4688
85°	4670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	4.7
10°-20°	63.2	13.3
20°-30°	91.7	19.3
30°-40°	102.7	21.6
40°-50°	91.6	19.3
50°-60°	60.3	12.7
60°-70°	28.2	5.9
70°-80°	12.4	2.6
80°-90°	3.3	0.7
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°	177.4	37.3
0°-40°	280.1	58.9
0°-60°	432.0	90.8
0°-90°	475.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	475.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	240	
5°	237	23
15°	225	63
25°	199	92
35°	164	103
45°	119	92
55°	67	60
65°	28	28
75°	12	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	239.6
2.5°	237.4
5°	237.4
7.5°	236.3
10°	231.9
12.5°	228.6
15°	225.3
17.5°	219.7
20°	213.1
22.5°	206.5
25°	198.8
27.5°	192.1
30°	183.3
32.5°	174.5
35°	164.5
37.5°	154.6
40°	143.5
42.5°	132.5
45°	119.3
47.5°	106.0
50°	92.8
52.5°	79.5
55°	67.4
57.5°	55.2
60°	44.2
62.5°	35.3
65°	27.6
67.5°	21.0
70°	16.6
72.5°	14.4
75°	12.1
77.5°	8.8
80°	6.6
82.5°	4.4
85°	3.3
87.5°	1.1
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)