

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: P677520

Luminaire Tested: ML406FLD2W1E-TL40R2GMW-3000K

Issue Date: 4/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P677520
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: ML406FLD2W1E-TL40R2GMW-3000K
Description: RETROFIT, CONICAL LENS TRIM
Light Source: (1) SELECTABLE LUMEN LED D2W / 3000K CCT
Ballast/Driver: -

Summary

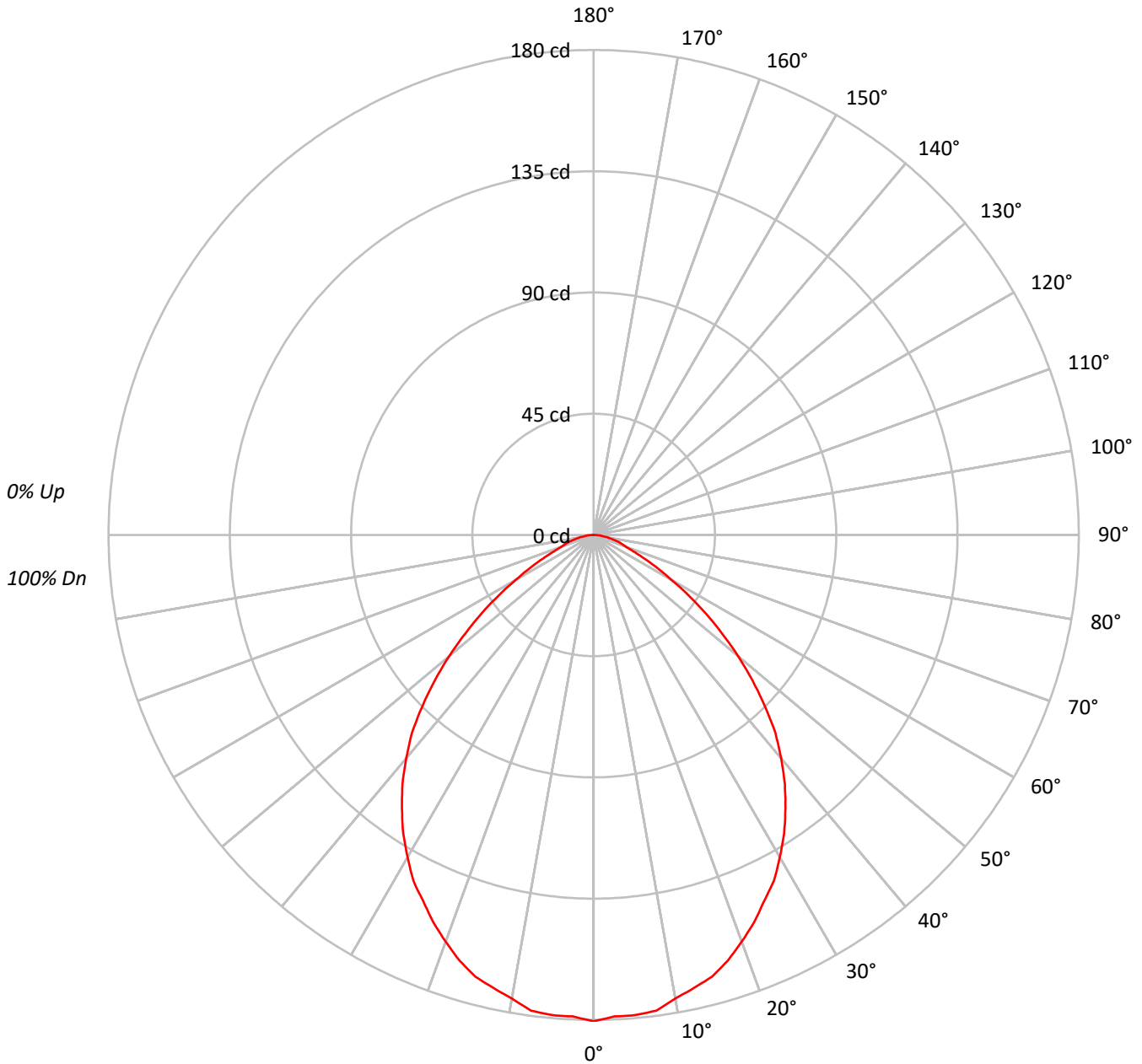
Lumens per Lamp: N/A
Luminaire Lumens: 358.6 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	22264
5°	22151
10°	21881
15°	21670
20°	21081
25°	20387
30°	19669
35°	18672
40°	17422
45°	15682
50°	13413
55°	10924
60°	8215
65°	6071
70°	4508
75°	4384
80°	3552
85°	3538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	4.7
10°-20°	47.6	13.3
20°-30°	69.1	19.3
30°-40°	77.4	21.6
40°-50°	69.0	19.2
50°-60°	45.4	12.7
60°-70°	21.2	5.9
70°-80°	9.3	2.6
80°-90°	2.5	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°	133.7	37.3
0°-40°	211.1	58.9
0°-60°	325.5	90.8
0°-90°	358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	180	
5°	179	17
15°	170	48
25°	150	69
35°	124	77
45°	90	69
55°	51	45
65°	21	21
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	180.5
2.5°	178.9
5°	178.9
7.5°	178.1
10°	174.7
12.5°	172.2
15°	169.7
17.5°	165.6
20°	160.6
22.5°	155.6
25°	149.8
27.5°	144.8
30°	138.1
32.5°	131.5
35°	124.0
37.5°	116.5
40°	108.2
42.5°	99.8
45°	89.9
47.5°	79.9
50°	69.9
52.5°	59.9
55°	50.8
57.5°	41.6
60°	33.3
62.5°	26.6
65°	20.8
67.5°	15.8
70°	12.5
72.5°	10.8
75°	9.2
77.5°	6.7
80°	5.0
82.5°	3.3
85°	2.5
87.5°	0.8
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)