

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P601197

Luminaire Tested: **ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K**

Issue Date: 7/29/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P601197
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 7/29/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K
 Description: RETROFIT, 40D OPTIC, OPEN TRIM
 Light Source: (1) SELECTABLE LUMEN LED D2W / 2700K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 653.4 lumens
 Efficiency: N/A
 Efficacy: 78.7 lumens/watt
 Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
 Luminous Opening: Circular (Dia: 0.21' x H: 0')
 CIE Type: Direct

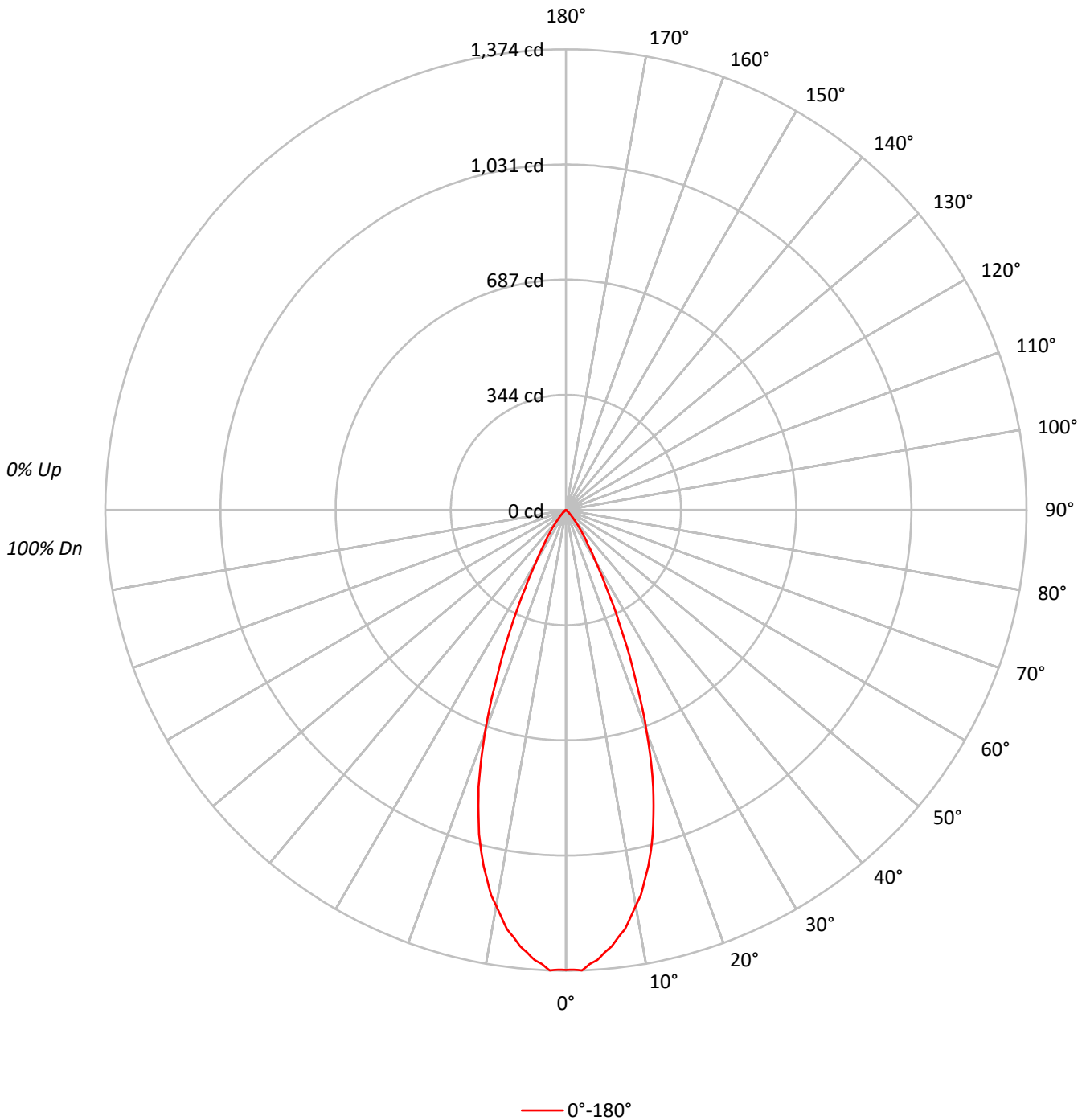
Input Watts (W): 8.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



Meas		Calibration Due Date	
Instrument	Identificatio		
Photometer	GONIO 1 11111111	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

TEST NUMBER: P601197
CATALOG NUMBER: ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K

Luminous Intensity Polar Plot



TEST NUMBER: P601197
 CATALOG NUMBER: ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	18.8
10°-20°	271.5	41.6
20°-30°	181.1	27.7
30°-40°	58.0	8.9
40°-50°	15.7	2.4
50°-60°	3.9	0.6
60°-70°	0.5	0.1
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°	575.3	88.0
0°-40°	633.3	96.9
0°-60°	653.0	99.9
0°-90°	653.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	653.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1372	
5°	1325	123
15°	1000	272
25°	388	181
35°	87	58
45°	18	16
55°	4	4
65°	1	0
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P601197
CATALOG NUMBER: ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1371.8
1°	1371.0
2°	1374.2
3°	1356.2
4°	1345.2
5°	1324.8
6°	1308.4
7°	1283.3
8°	1262.9
9°	1230.0
10°	1198.7
11°	1170.5
12°	1129.0
13°	1090.6
14°	1047.5
15°	1000.5
17.5°	866.5
20°	705.9
22.5°	535.9
25°	387.8
27.5°	263.2
30°	176.3
32.5°	122.2
35°	87.0
37.5°	61.9
40°	40.7
42.5°	26.6
45°	18.0
47.5°	13.3
50°	9.4
52.5°	6.3
55°	3.9
57.5°	2.4
60°	0.8
62.5°	0.8
65°	0.8
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

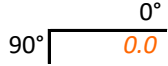
Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269


NVLAP Lab Code: 200050-0



TEST NUMBER: P601197
CATALOG NUMBER: ML406FLD2W1E - TIR4D40FL - TL41R_ TL42S_ 2700K

CANDELA DISTRIBUTION (continued):



(END OF REPORT)