

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: P601344

Luminaire Tested: **ML4DM06FL9FS1E - TIR4D40FL - TL41R_ TL42S_ 5000K**

Issue Date: 7/29/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P601344
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 7/29/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML4DM06FL9FS1E - TIR4D40FL - TL41R_ TL42S_ 5000K
 Description: DIRECT MOUNT, 40D OPTIC, OPEN TRIM
 Light Source: (1) SELECTABLE LUMEN LED 90CRI / 5000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 921.8 lumens
 Efficiency: N/A
 Efficacy: 111.1 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

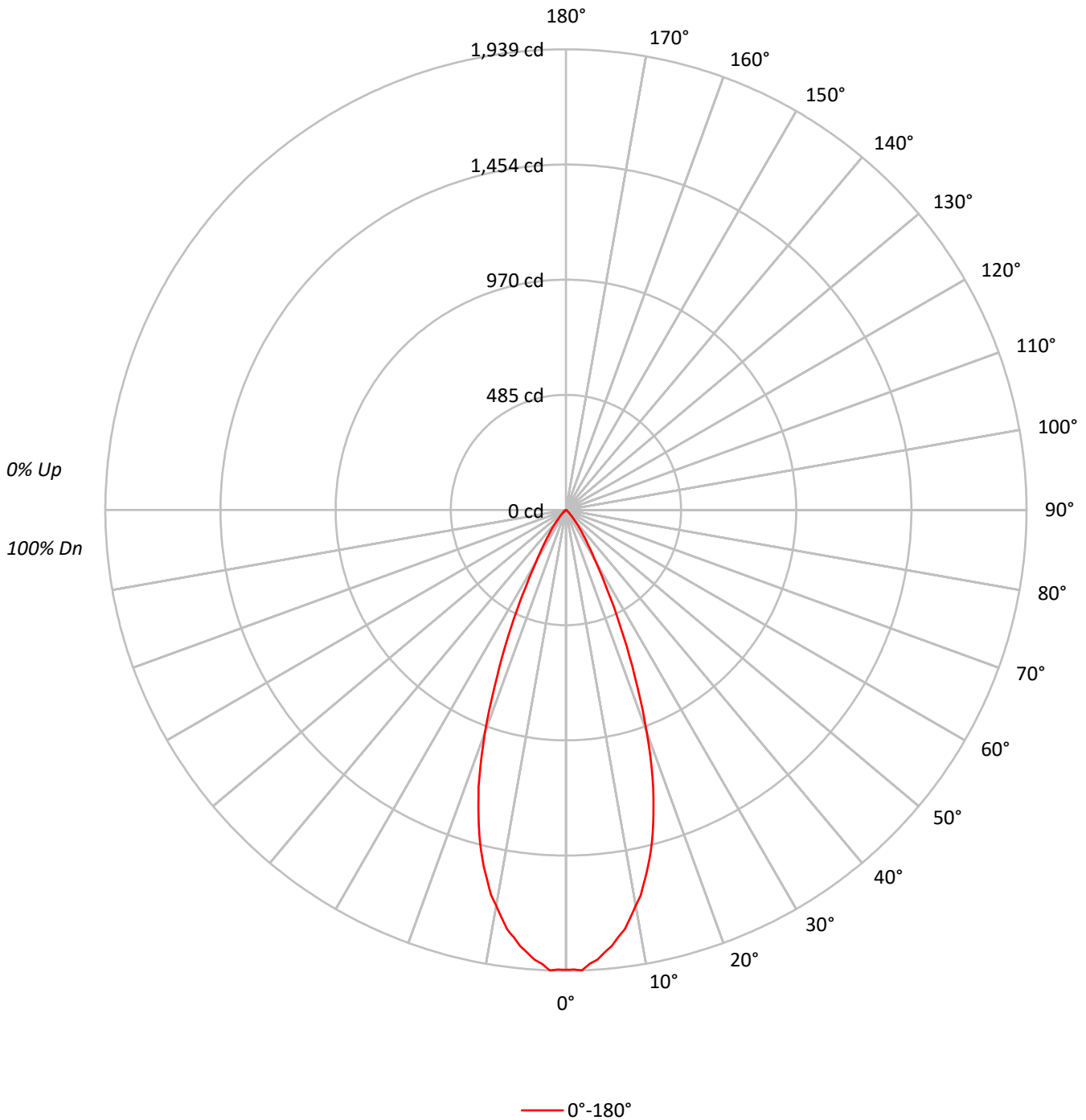
Input Watts (W): 8.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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

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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90		94	91	89		91	89	87	86
4	101	95	90	86	99	94	89	86	92	88	85		90	87	84		88	85	83	82
5	97	90	85	81	96	89	85	81	87	83	80		86	82	80		84	81	79	78
6	93	86	81	77	92	85	80	77	84	79	76		82	79	76		81	78	75	74
7	90	82	77	73	89	81	77	73	80	76	73		79	75	72		78	75	72	71
8	86	78	73	70	85	78	73	70	77	73	69		76	72	69		75	72	69	68
9	83	75	70	67	82	75	70	67	74	69	66		73	69	66		72	69	66	65
10	80	72	67	64	79	72	67	64	71	67	64		70	66	63		70	66	63	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	611100
5°	592419
10°	542228
15°	461393
20°	334653
25°	190614
30°	90680
35°	47298
40°	23702
45°	11343
50°	6534
55°	3028
60°	695
65°	822
70°	0
75°	0
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	18.8
10°-20°	383.0	41.6
20°-30°	255.5	27.7
30°-40°	81.9	8.9
40°-50°	22.3	2.4
50°-60°	5.5	0.6
60°-70°	0.7	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°	811.6	88.0
0°-40°	893.5	96.9
0°-60°	921.2	99.9
0°-90°	921.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1935	
5°	1869	173
15°	1411	383
25°	547	256
35°	123	82
45°	25	22
55°	6	5
65°	1	1
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1935.3
1°	1934.2
2°	1938.7
3°	1913.2
4°	1897.8
5°	1869.0
6°	1845.8
7°	1810.4
8°	1781.7
9°	1735.3
10°	1691.1
11°	1651.3
12°	1592.7
13°	1538.5
14°	1477.8
15°	1411.4
17.5°	1222.4
20°	995.9
22.5°	756.0
25°	547.1
27.5°	371.4
30°	248.7
32.5°	172.4
35°	122.7
37.5°	87.3
40°	57.5
42.5°	37.6
45°	25.4
47.5°	18.8
50°	13.3
52.5°	8.8
55°	5.5
57.5°	3.3
60°	1.1
62.5°	1.1
65°	1.1
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



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)