

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: P601366

Luminaire Tested: **ML4DM06NFLD2W1E - TIR4D25NFL - TL43R2G\_ TL44S2G\_ 2700K**

Issue Date: 7/29/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P601366  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 7/29/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO  
 Catalog Number: ML4DM06NFLD2W1E - TIR4D25NFL - TL43R2G\_ TL44S2G\_ 2700K  
 Description: DIRECT MOUNT, 25D OPTIC, DIFFUSE CLEAR LENS TRIM  
 Light Source: (1) SELECTABLE LUMEN LED D2W / 2700K CCT  
 Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
 Luminaire Lumens: 619.0 lumens  
 Efficiency: N/A  
 Efficacy: 74.6 lumens/watt  
 Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.47  
 Luminous Opening: Circular (Dia: 0.21' x H: 0')  
 CIE Type: Direct

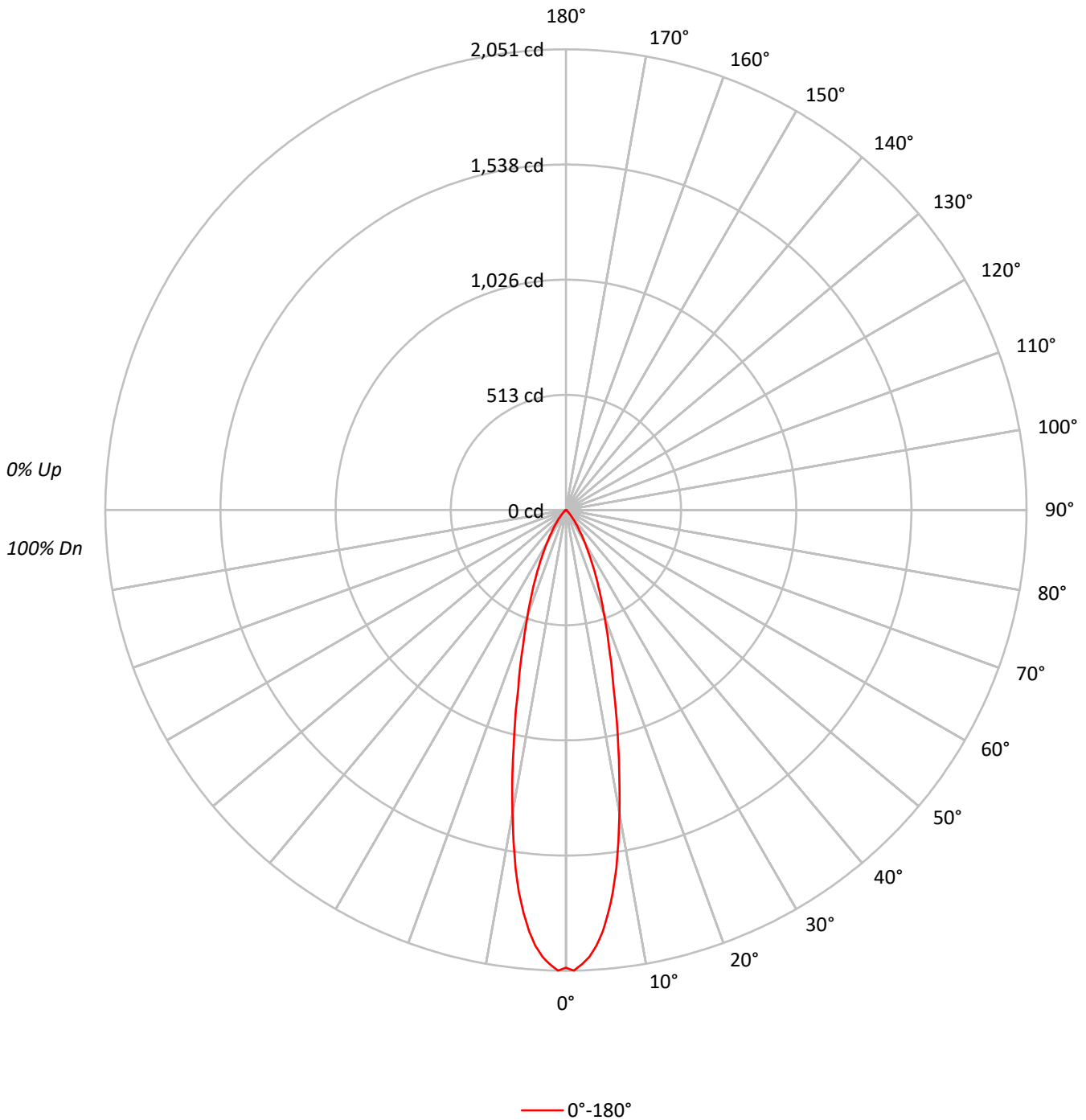
Input Watts (W): 8.3  
 Input Voltage (V): NR  
 Input Current (Ain): NR  
 Voltage Rise (V): NR  
 Power Factor: NR  
 Total Harmonic Distortion (THDi): NR  
 Frequency (hertz): 60  
 Stabilization Time: NR  
 Operation Time: NR  
 Ambient Temperature (°C): NR  
 Test Distance: 25 FT



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	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	80	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	643435
5°	596762
10°	439432
15°	267800
20°	167377
25°	104488
30°	60818
35°	34423
40°	18096
45°	9422
50°	5404
55°	3028
60°	1453
65°	1195
70°	739
75°	976
80°	0
85°	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	26.3
10°-20°	232.7	37.6
20°-30°	139.8	22.6
30°-40°	58.2	9.4
40°-50°	17.8	2.9
50°-60°	5.5	0.9
60°-70°	1.4	0.2
70°-80°	0.5	0.1
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°	535.6	86.5
0°-40°	593.8	95.9
0°-60°	617.1	99.7
0°-90°	619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2038	
5°	1883	163
15°	819	233
25°	300	140
35°	89	58
45°	21	18
55°	6	5
65°	2	1
75°	1	1
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2037.7
1°	2051.0
2°	2024.4
3°	1992.3
4°	1944.5
5°	1882.7
6°	1803.6
7°	1714.3
8°	1610.1
9°	1491.9
10°	1370.5
12.5°	1073.7
15°	819.2
17.5°	635.1
20°	498.1
22.5°	388.4
25°	299.9
27.5°	225.5
30°	166.8
32.5°	122.2
35°	89.3
37.5°	63.4
40°	43.9
42.5°	30.5
45°	21.1
47.5°	14.9
50°	11.0
52.5°	8.6
55°	5.5
57.5°	3.9
60°	2.3
62.5°	1.6
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)