

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: P601413

Luminaire Tested: **ML4DM08LSNFL95FS1E - TIR4D25NFL - TL43R2G_ TL44S2G_ 3000K**

Issue Date: 7/29/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P601413
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 7/29/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML4DM08LSNFL95FS1E - TIR4D25NFL - TL43R2G_ TL44S2G_ 3000K
 Description: DIRECT MOUNT, 25D OPTIC, DIFFUSE CLEAR LENS TRIM
 Light Source: (1) SELECTABLE LUMEN LED 95CRI / 3000K CCT
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 945.0 lumens
 Efficiency: N/A
 Efficacy: 91.8 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

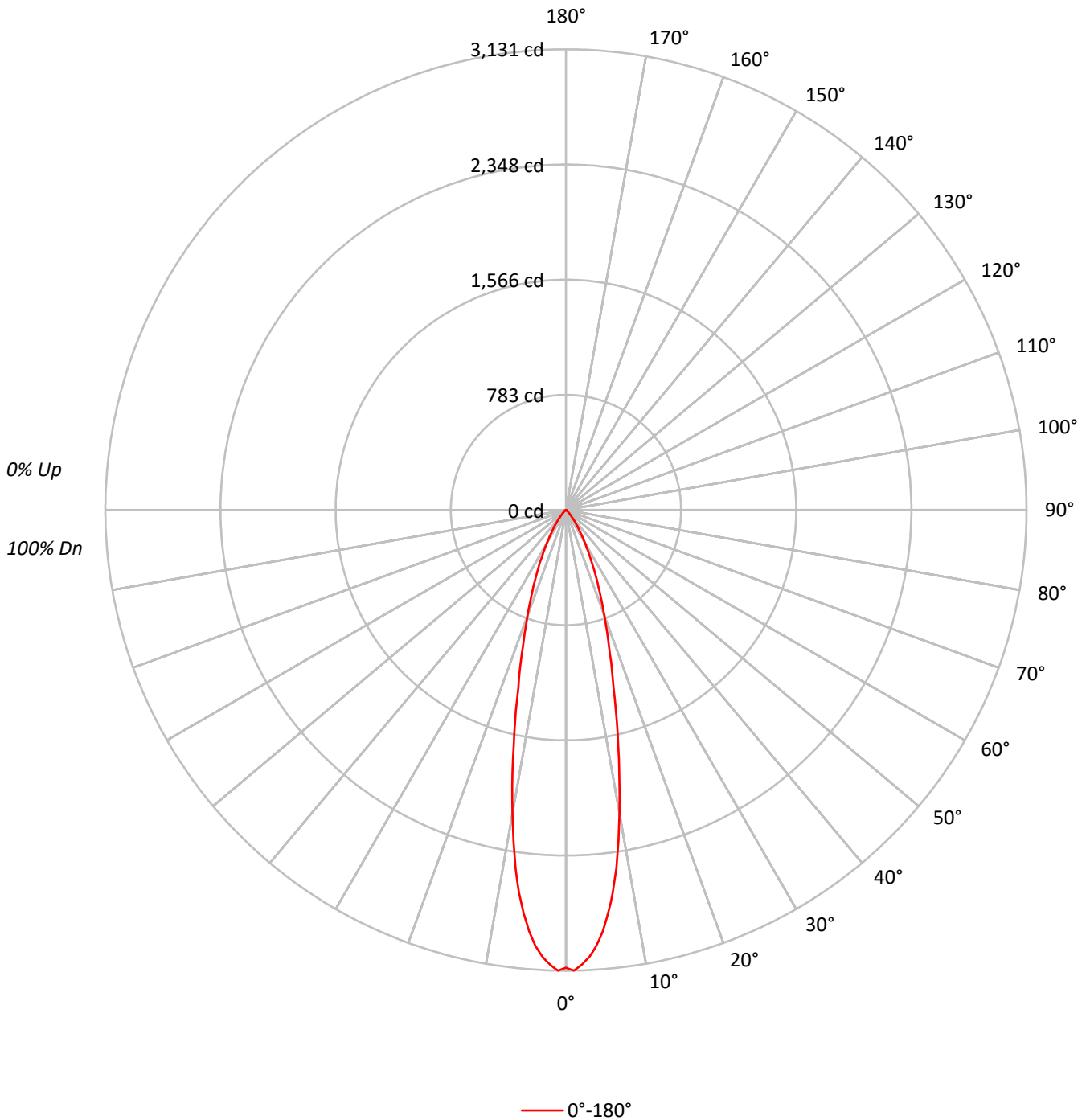
Input Watts (W): 10.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	97	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	92	92	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	88	88	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	80	80	80	80	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	77	77	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	74	74	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	71	71	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	68	68	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	66	66	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	982345
5°	911039
10°	670867
15°	408826
20°	255517
25°	159536
30°	92867
35°	52541
40°	27618
45°	14424
50°	8204
55°	4624
60°	2274
65°	1793
70°	1108
75°	1464
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	26.3
10°-20°	355.3	37.6
20°-30°	213.4	22.6
30°-40°	88.9	9.4
40°-50°	27.3	2.9
50°-60°	8.3	0.9
60°-70°	2.1	0.2
70°-80°	0.8	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°	817.7	86.5
0°-40°	906.6	95.9
0°-60°	942.2	99.7
0°-90°	945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3111	
5°	2874	249
15°	1251	355
25°	458	213
35°	136	89
45°	32	27
55°	8	8
65°	2	2
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3111.0
1°	3131.3
2°	3090.6
3°	3041.6
4°	2968.7
5°	2874.2
6°	2753.5
7°	2617.2
8°	2458.2
9°	2277.6
10°	2092.3
12.5°	1639.2
15°	1250.6
17.5°	969.6
20°	760.4
22.5°	593.0
25°	457.9
27.5°	344.3
30°	254.7
32.5°	186.5
35°	136.3
37.5°	96.8
40°	67.0
42.5°	46.6
45°	32.3
47.5°	22.7
50°	16.7
52.5°	13.2
55°	8.4
57.5°	6.0
60°	3.6
62.5°	2.4
65°	2.4
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)