

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: P990842

Luminaire Tested: **ML3ALSFLD2W1E-TIR4D55WFL-TL3RDMW-600LM-2700K**

Issue Date: 5/13/2025

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P990842
 Test Lab: Cooper Lighting Solutions
 Issue Date: 5/13/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO
 Catalog Number: ML3ALSFLD2W1E-TIR4D55WFL-TL3RDMW-600LM-2700K
 Description: 3IN ROUND ML FLEX ADJUSTABLE, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
 Light Source: (1) D2W LED 90CRI / 2700K CCT
 Ballast/Driver: -

Summary

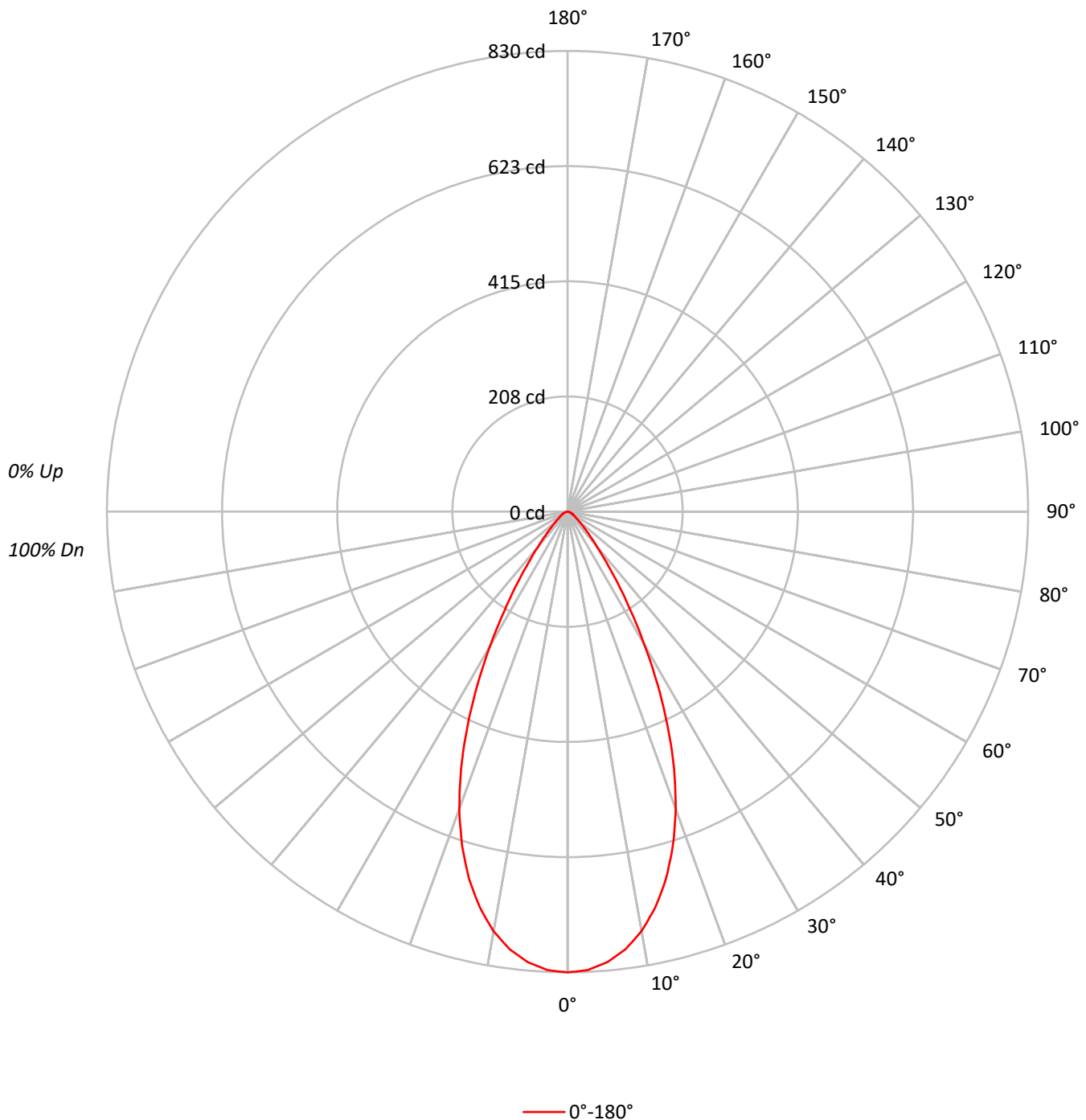
Lumens per Lamp: N/A
 Luminaire Lumens: 627.8 lumens
 Efficiency: N/A
 Efficacy: 66.8 lumens/watt
 Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.78
 Luminous Opening: Circular (Dia: 0.25' x H: 0')
 CIE Type: Direct

Input Watts (W): 9.4
 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

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78		84	80	77		82	79	76	75
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78	74	72	70
6	88	79	73	69	86	78	73	68	77	72	68		75	71	68		74	70	67	66
7	84	74	68	64	82	74	68	64	72	67	64		71	67	63		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	59	58
9	76	67	61	57	75	66	61	57	65	60	57		64	60	56		63	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53		61	57	53		60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	182025
5°	179418
10°	170872
15°	155529
20°	133058
25°	103312
30°	70289
35°	42135
40°	23787
45°	14265
50°	9347
55°	6767
60°	5438
65°	5033
70°	3975
75°	2965
80°	1137
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	12.2
10°-20°	189.6	30.2
20°-30°	193.1	30.8
30°-40°	101.7	16.2
40°-50°	37.5	6.0
50°-60°	16.4	2.6
60°-70°	9.3	1.5
70°-80°	3.5	0.6
80°-90°	0.4	0.1
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°	459.0	73.1
0°-40°	560.7	89.3
0°-60°	614.6	97.9
0°-90°	627.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	830	
5°	815	76
15°	685	190
25°	427	193
35°	157	102
45°	46	38
55°	18	16
65°	10	9
75°	4	3
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	830.1
2.5°	826.6
5°	815.1
7.5°	795.6
10°	767.4
12.5°	730.2
15°	685.1
17.5°	631.2
20°	570.2
22.5°	501.3
25°	427.0
27.5°	351.0
30°	277.6
32.5°	211.3
35°	157.4
37.5°	114.0
40°	83.1
42.5°	61.0
45°	46.0
47.5°	34.5
50°	27.4
52.5°	21.2
55°	17.7
57.5°	15.0
60°	12.4
62.5°	10.6
65°	9.7
67.5°	8.0
70°	6.2
72.5°	4.4
75°	3.5
77.5°	1.8
80°	0.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)