

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P364407

Luminaire Tested: **HLA305FL9271EMW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P364407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1909-486-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HLA305FL9271EMW  
Description: 3IN HLA LED WITH 2700K LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

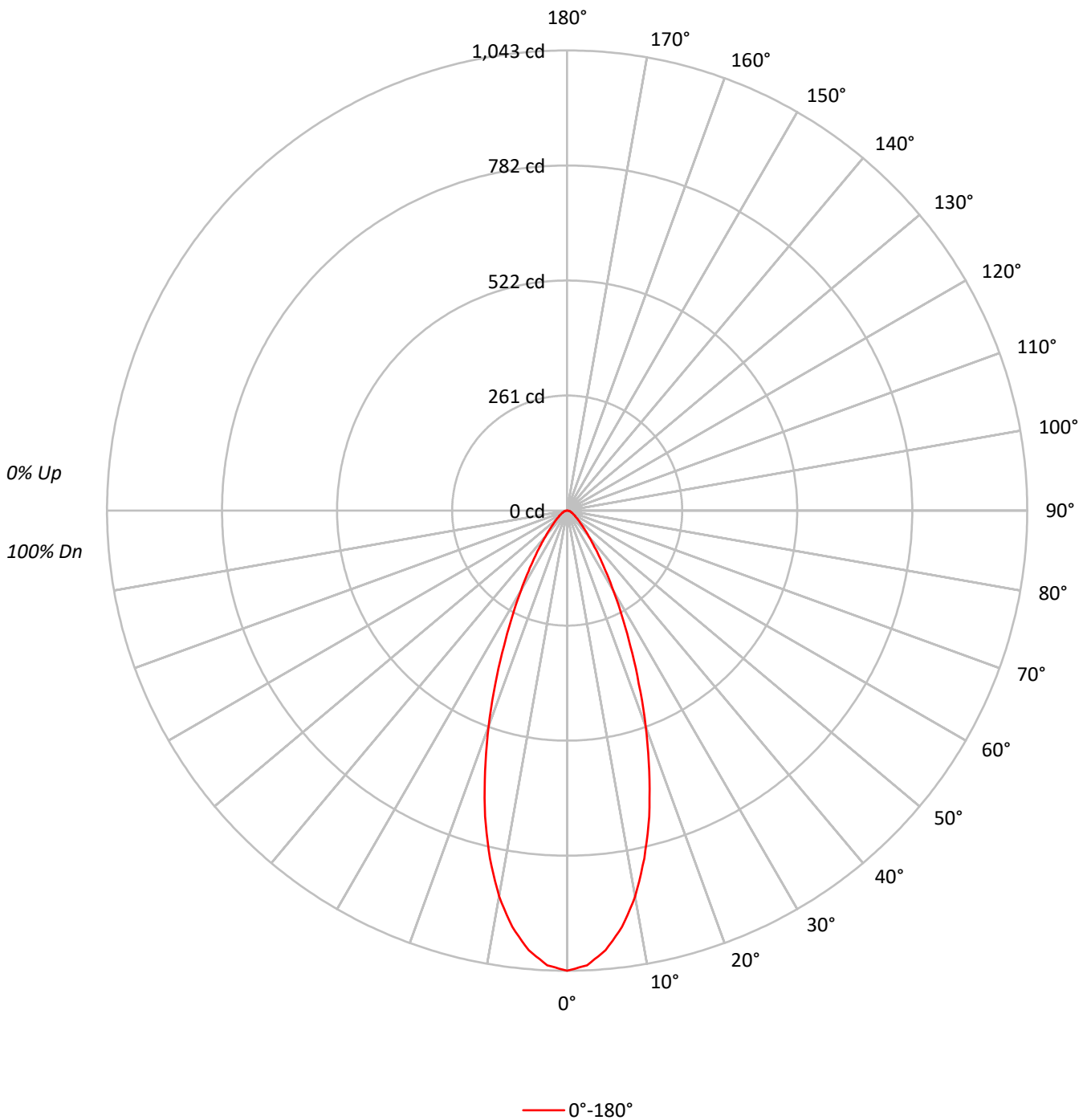
Lumens per Lamp: N/A  
Luminaire Lumens: 606.7 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.6  
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



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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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53

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

	0°
0°	514527
5°	495345
10°	444914
15°	366781
20°	272803
25°	184050
30°	119064
35°	75526
40°	48947
45°	33142
50°	24791
55°	19611
60°	15886
65°	14359
70°	12261
75°	12581
80°	10796
85°	10755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	15.1
10°-20°	196.4	32.4
20°-30°	157.2	25.9
30°-40°	81.2	13.4
40°-50°	38.3	6.3
50°-60°	20.8	3.4
60°-70°	12.2	2.0
70°-80°	6.9	1.1
80°-90°	1.8	0.3
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°	445.5	73.4
0°-40°	526.7	86.8
0°-60°	585.9	96.6
0°-90°	606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1043	
5°	1000	92
15°	718	196
25°	338	157
35°	125	81
45°	48	38
55°	23	21
65°	12	12
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1042.9
2.5°	1031.5
5°	1000.2
7.5°	951.7
10°	888.1
12.5°	807.4
15°	718.1
17.5°	618.3
20°	519.6
22.5°	424.6
25°	338.1
27.5°	267.9
30°	209.0
32.5°	162.4
35°	125.4
37.5°	96.9
40°	76.0
42.5°	59.8
45°	47.5
47.5°	38.9
50°	32.3
52.5°	26.6
55°	22.8
57.5°	19.9
60°	16.1
62.5°	14.2
65°	12.3
67.5°	10.4
70°	8.5
72.5°	7.6
75°	6.6
77.5°	5.7
80°	3.8
82.5°	2.8
85°	1.9
87.5°	0.0
90°	0.0

(END OF REPORT)