

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: E395754

Luminaire Tested: **H7-79**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395754  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-79  
Description: HALO RECESSED INC - H7 HOUSING, 2" PINHOLE  
Light Source: 60A19, 870 LUMENS  
Ballast/Driver: -

**Summary**

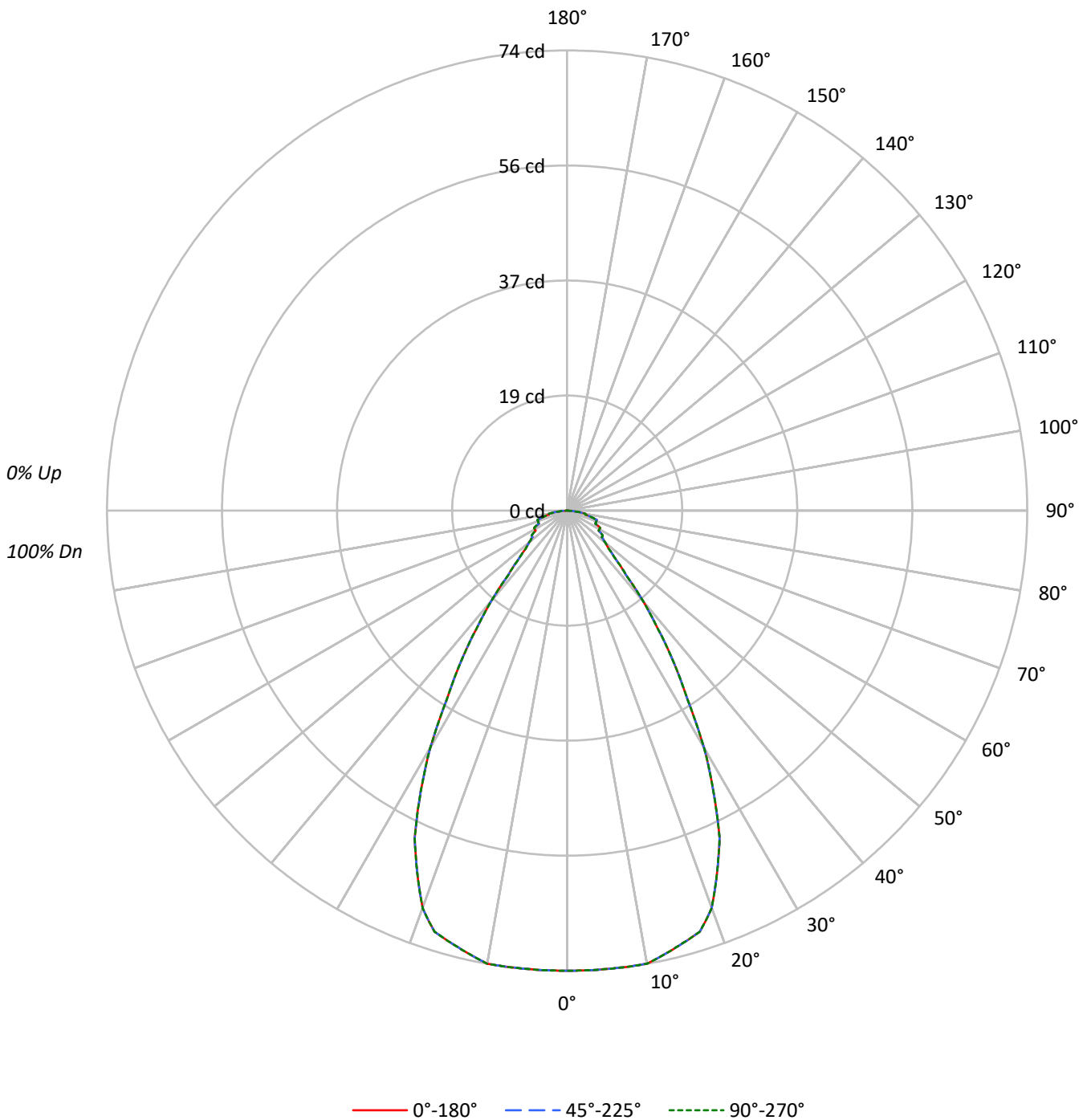
Lumens per Lamp: 870 (1 lamp)  
Luminaire Lumens: 98.1 lumens  
Efficiency: 11.3%  
Efficacy: 1.6 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.95  
Luminous Opening: (L: 0 ' x W: -0.17 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 60  
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						
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10			
RCR																							
0	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	11	11	11	11	11	11
1	13	12	12	11	12	12	12	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10
2	12	11	10	10	11	11	10	10	10	10	10	10	10	9	10	9	9	9	9	9	9	9	9
3	11	10	9	9	11	10	9	9	10	9	8	9	9	8	9	9	8	8	8	8	8	8	8
4	10	9	8	8	10	9	8	8	9	8	8	9	8	8	8	8	7	8	8	7	7	7	7
5	10	8	8	7	9	8	8	7	8	7	7	8	7	7	8	7	7	7	7	7	7	7	7
6	9	8	7	6	9	8	7	6	8	7	6	7	7	6	7	7	6	6	6	6	6	6	6
7	9	7	6	6	8	7	6	6	7	6	6	7	6	6	7	6	6	6	6	6	6	6	6
8	8	7	6	5	8	7	6	5	7	6	5	6	6	5	6	6	5	5	5	5	5	5	5
9	8	6	6	5	7	6	6	5	6	6	5	6	5	5	6	5	5	5	5	5	5	5	5
10	7	6	5	5	7	6	5	5	6	5	5	6	5	5	6	5	5	5	5	5	5	5	5

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

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.1	7.2	0.8
10°-20°	20.3	20.7	2.3
20°-30°	26.1	26.6	3.0
30°-40°	18.8	19.2	2.2
40°-50°	9.1	9.3	1.0
50°-60°	6.0	6.2	0.7
60°-70°	5.3	5.4	0.6
70°-80°	4.2	4.3	0.5
80°-90°	1.2	1.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	53.4	54.4	6.1
0°-40°	72.2	73.6	8.3
0°-60°	87.3	89.0	10.0
0°-90°	98.1	100.0	11.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	98.1	100.0	11.3

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	74	74	74	74	74	7
15°	72	72	72	72	72	20
25°	58	58	58	58	58	26
35°	30	30	30	30	30	19
45°	11	11	11	11	11	9
55°	7	7	7	7	7	6
65°	5	5	5	5	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	74	74	74	74	74	74	74	74	74
2.5°	74	74	74	74	74	74	74	74	74
5°	74	74	74	74	74	74	74	74	74
7.5°	74	74	74	74	74	74	74	74	74
10°	74	74	74	74	74	74	74	74	74
12.5°	73	73	73	73	73	73	73	73	73
15°	72	72	72	72	72	72	72	72	72
17.5°	71	71	71	71	71	71	71	71	71
20°	68	68	68	68	68	68	68	68	68
22.5°	63	63	63	63	63	63	63	63	63
25°	58	58	58	58	58	58	58	58	58
27.5°	51	51	51	51	51	51	51	51	51
30°	44	44	44	44	44	44	44	44	44
32.5°	36	36	36	36	36	36	36	36	36
35°	30	30	30	30	30	30	30	30	30
37.5°	24	24	24	24	24	24	24	24	24
40°	19	19	19	19	19	19	19	19	19
42.5°	14	14	14	14	14	14	14	14	14
45°	11	11	11	11	11	11	11	11	11
47.5°	9	9	9	9	9	9	9	9	9
50°	8	8	8	8	8	8	8	8	8
52.5°	7	7	7	7	7	7	7	7	7
55°	7	7	7	7	7	7	7	7	7
57.5°	6	6	6	6	6	6	6	6	6
60°	6	6	6	6	6	6	6	6	6
62.5°	6	6	6	6	6	6	6	6	6
65°	5	5	5	5	5	5	5	5	5
67.5°	5	5	5	5	5	5	5	5	5
70°	5	5	5	5	5	5	5	5	5
72.5°	5	5	5	5	5	5	5	5	5
75°	4	4	4	4	4	4	4	4	4
77.5°	3	3	3	3	3	3	3	3	3
80°	3	3	3	3	3	3	3	3	3
82.5°	2	2	2	2	2	2	2	2	2
85°	1	1	1	1	1	1	1	1	1
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)