

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: E395723

Luminaire Tested: **H7-310/H930**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395723  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-310/H930  
Description: HALO RECESSED INC - H7 HOUSING, ADJ, COILEX BAFFLE, 0 DEG TILT  
Light Source: 75R30SP, 900 LUMENS  
Ballast/Driver: -

**Summary**

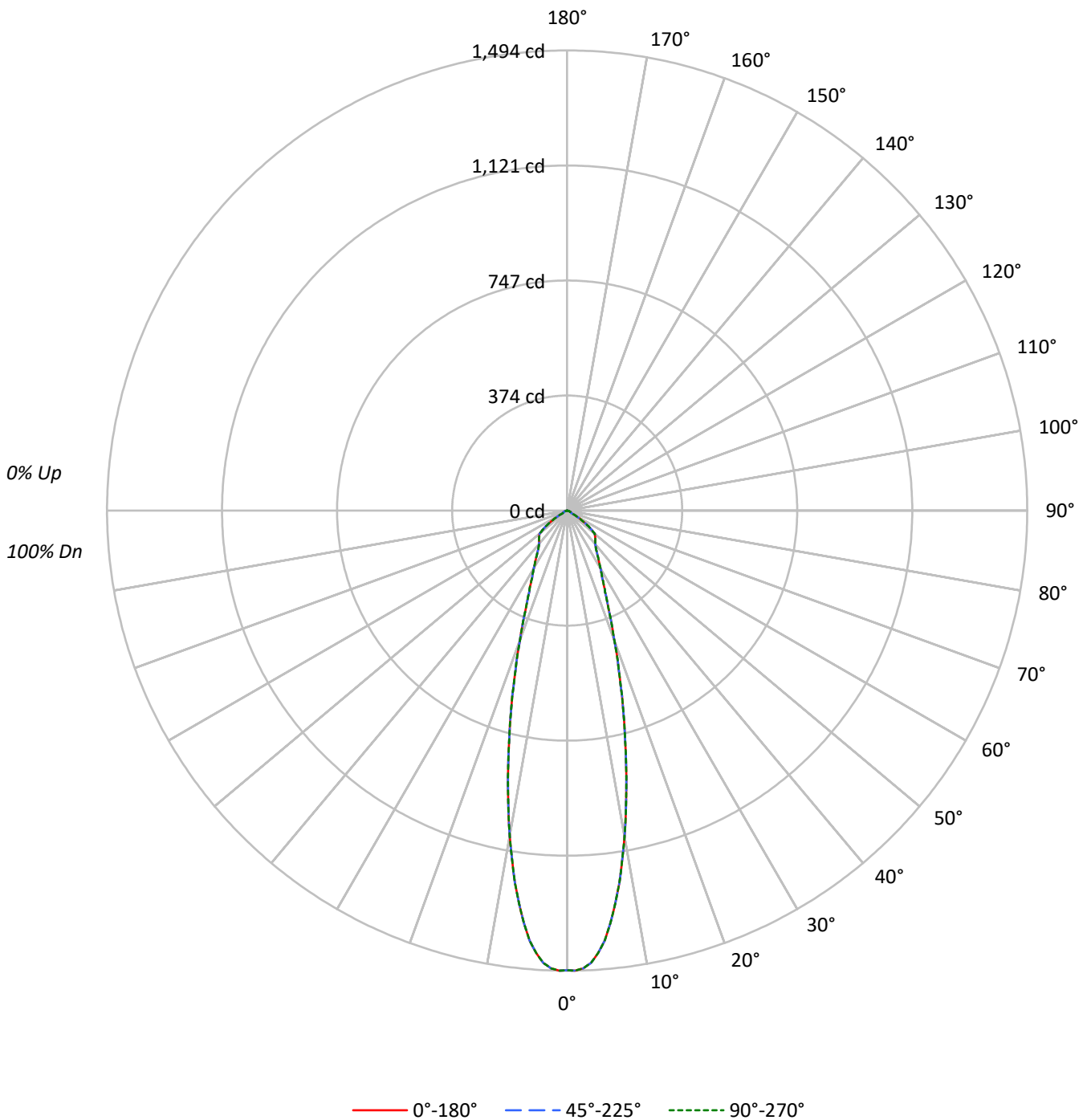
Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 746.1 lumens  
Efficiency: 82.9%  
Efficacy: 9.9 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.51  
Luminous Opening: (L: 0 ' x W: -0.49 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 75  
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	99	99	99	99	96	96	96	96	92	92	92		88	88	88		85	85	85	83
1	94	91	89	87	92	89	87	86	86	84	83		83	82	80		80	79	78	77
2	88	84	80	77	87	83	79	76	80	77	75		77	75	73		75	73	72	70
3	84	78	73	70	82	77	72	69	74	71	68		72	69	67		70	68	66	64
4	79	72	67	63	77	71	67	63	69	65	62		68	64	62		66	63	61	59
5	75	67	62	58	73	66	62	58	65	61	57		64	60	57		62	59	56	55
6	71	63	58	54	70	62	57	54	61	57	53		60	56	53		59	55	53	51
7	67	59	54	50	66	59	54	50	58	53	50		57	53	50		56	52	49	48
8	64	56	51	47	63	55	50	47	54	50	47		54	50	47		53	49	46	45
9	61	53	48	44	60	53	48	44	52	47	44		51	47	44		50	47	44	43
10	59	50	45	42	58	50	45	42	49	45	42		49	45	42		48	44	42	41

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

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
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°	122.7	16.4	13.6
10°-20°	198.0	26.5	22.0
20°-30°	138.9	18.6	15.4
30°-40°	107.6	14.4	12.0
40°-50°	99.9	13.4	11.1
50°-60°	61.7	8.3	6.9
60°-70°	11.9	1.6	1.3
70°-80°	5.3	0.7	0.6
80°-90°	0.3	0.0	0.0
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°	459.6	61.6	51.1
0°-40°	567.2	76.0	63.0
0°-60°	728.7	97.7	81.0
0°-90°	746.1	100.0	82.9
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°	746.1	100.0	82.9

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1492	1492	1492	1492	1492	
5°	1401	1401	1401	1401	1401	123
15°	716	716	716	716	716	198
25°	292	292	292	292	292	139
35°	169	169	169	169	169	108
45°	129	129	129	129	129	100
55°	73	73	73	73	73	62
65°	12	12	12	12	12	12
75°	5	5	5	5	5	5
85°	0	0	0	0	0	0
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°	1492	1492	1492	1492	1492	1492	1492	1492	1492
1°	1494	1494	1494	1494	1494	1494	1494	1494	1494
2°	1487	1487	1487	1487	1487	1487	1487	1487	1487
3°	1471	1471	1471	1471	1471	1471	1471	1471	1471
4°	1440	1440	1440	1440	1440	1440	1440	1440	1440
5°	1401	1401	1401	1401	1401	1401	1401	1401	1401
6°	1346	1346	1346	1346	1346	1346	1346	1346	1346
7°	1284	1284	1284	1284	1284	1284	1284	1284	1284
8°	1220	1220	1220	1220	1220	1220	1220	1220	1220
9°	1146	1146	1146	1146	1146	1146	1146	1146	1146
10°	1073	1073	1073	1073	1073	1073	1073	1073	1073
11°	998	998	998	998	998	998	998	998	998
12°	924	924	924	924	924	924	924	924	924
13°	850	850	850	850	850	850	850	850	850
14°	782	782	782	782	782	782	782	782	782
15°	716	716	716	716	716	716	716	716	716
17.5°	566	566	566	566	566	566	566	566	566
20°	447	447	447	447	447	447	447	447	447
22.5°	356	356	356	356	356	356	356	356	356
25°	292	292	292	292	292	292	292	292	292
27.5°	247	247	247	247	247	247	247	247	247
30°	216	216	216	216	216	216	216	216	216
32.5°	190	190	190	190	190	190	190	190	190
35°	169	169	169	169	169	169	169	169	169
37.5°	153	153	153	153	153	153	153	153	153
40°	142	142	142	142	142	142	142	142	142
45°	129	129	129	129	129	129	129	129	129
50°	117	117	117	117	117	117	117	117	117
55°	73	73	73	73	73	73	73	73	73
60°	15	15	15	15	15	15	15	15	15
65°	12	12	12	12	12	12	12	12	12
70°	9	9	9	9	9	9	9	9	9
75°	5	5	5	5	5	5	5	5	5
80°	1	1	1	1	1	1	1	1	1
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)