

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: E395720

Luminaire Tested: **H7-301**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395720  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-301  
Description: HALO RECESSED INC - H7 HOUSING, OPEN TRIM  
Light Source: 75R30FL, 900 LUMENS  
Ballast/Driver: -

**Summary**

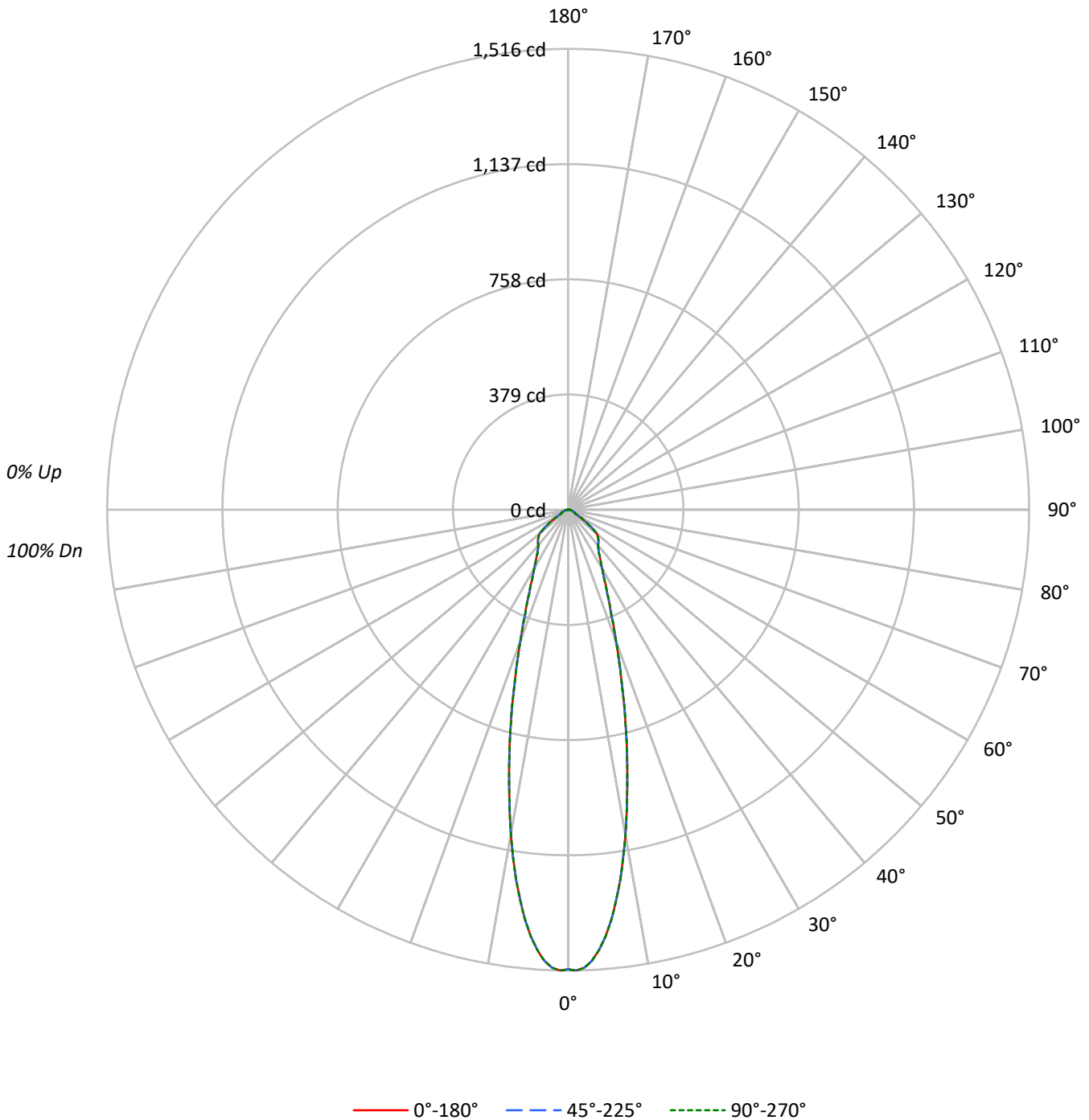
Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 797.8 lumens  
Efficiency: 88.6%  
Efficacy: 10.6 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.52  
Luminous Opening: (L: 0 ' x W: -0.32 ' x H: 0 '  
CIE Type: Direct

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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	103	103	103	103	98	98	98	94	94	94	90	90	90	89		
1	100	97	94	92	97	95	92	90	91	89	87	88	86	85	85	84	82	81		
2	94	89	84	81	92	87	83	80	84	81	78	81	79	77	79	77	75	73		
3	88	82	77	73	86	80	76	72	78	74	71	76	72	70	74	71	69	67		
4	83	76	70	66	81	75	69	65	73	68	65	71	67	64	69	66	63	62		
5	79	70	65	60	77	69	64	60	68	63	59	66	62	59	65	61	58	57		
6	74	66	60	56	73	65	59	55	64	59	55	62	58	55	61	57	54	53		
7	71	62	56	52	69	61	56	52	60	55	51	59	54	51	58	54	51	49		
8	67	58	52	48	66	58	52	48	57	52	48	56	51	48	55	51	48	46		
9	64	55	49	46	63	55	49	46	54	49	45	53	48	45	52	48	45	44		
10	61	52	47	43	60	52	47	43	51	46	43	50	46	43	50	46	43	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°	123.8	15.5	13.8
10°-20°	201.3	25.2	22.4
20°-30°	143.6	18.0	16.0
30°-40°	112.9	14.2	12.5
40°-50°	108.0	13.5	12.0
50°-60°	66.2	8.3	7.4
60°-70°	22.8	2.9	2.5
70°-80°	14.0	1.8	1.6
80°-90°	4.9	0.6	0.5
90°-100°	0.3	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°	468.7	58.8	52.1
0°-40°	581.7	72.9	64.6
0°-60°	755.8	94.7	84.0
0°-90°	797.5	100.0	88.6
90°-120°	0.3	0.0	0.0
90°-150°	0.3	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	797.8	100.0	88.6

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1512	1512	1512	1512	1512	
5°	1409	1409	1409	1409	1409	124
15°	727	727	727	727	727	201
25°	304	304	304	304	304	144
35°	177	177	177	177	177	113
45°	141	141	141	141	141	108
55°	73	73	73	73	73	66
65°	23	23	23	23	23	23
75°	13	13	13	13	13	14
85°	4	4	4	4	4	4
90°	1	1	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	1512	1512	1512	1512	1512	1512	1512	1512	1512
1°	1516	1516	1516	1516	1516	1516	1516	1516	1516
2°	1508	1508	1508	1508	1508	1508	1508	1508	1508
3°	1487	1487	1487	1487	1487	1487	1487	1487	1487
4°	1453	1453	1453	1453	1453	1453	1453	1453	1453
5°	1409	1409	1409	1409	1409	1409	1409	1409	1409
6°	1357	1357	1357	1357	1357	1357	1357	1357	1357
7°	1294	1294	1294	1294	1294	1294	1294	1294	1294
8°	1229	1229	1229	1229	1229	1229	1229	1229	1229
9°	1158	1158	1158	1158	1158	1158	1158	1158	1158
10°	1085	1085	1085	1085	1085	1085	1085	1085	1085
11°	1008	1008	1008	1008	1008	1008	1008	1008	1008
12°	934	934	934	934	934	934	934	934	934
13°	862	862	862	862	862	862	862	862	862
14°	795	795	795	795	795	795	795	795	795
15°	727	727	727	727	727	727	727	727	727
17.5°	578	578	578	578	578	578	578	578	578
20°	459	459	459	459	459	459	459	459	459
22.5°	368	368	368	368	368	368	368	368	368
25°	304	304	304	304	304	304	304	304	304
27.5°	256	256	256	256	256	256	256	256	256
30°	222	222	222	222	222	222	222	222	222
32.5°	197	197	197	197	197	197	197	197	197
35°	177	177	177	177	177	177	177	177	177
37.5°	163	163	163	163	163	163	163	163	163
40°	153	153	153	153	153	153	153	153	153
45°	141	141	141	141	141	141	141	141	141
50°	124	124	124	124	124	124	124	124	124
55°	73	73	73	73	73	73	73	73	73
60°	28	28	28	28	28	28	28	28	28
65°	23	23	23	23	23	23	23	23	23
70°	18	18	18	18	18	18	18	18	18
75°	13	13	13	13	13	13	13	13	13
80°	9	9	9	9	9	9	9	9	9
85°	4	4	4	4	4	4	4	4	4
90°	1	1	1	1	1	1	1	1	1
95°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
140°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)