

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: E395715

Luminaire Tested: **H7-400SC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395715  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-400SC  
Description: HALO RECESSED INC. H7 HOUSING CLEAR SPECULAR REFLECTOR  
Light Source: 100A19, 1750 LUMENS  
Ballast/Driver: -

**Summary**

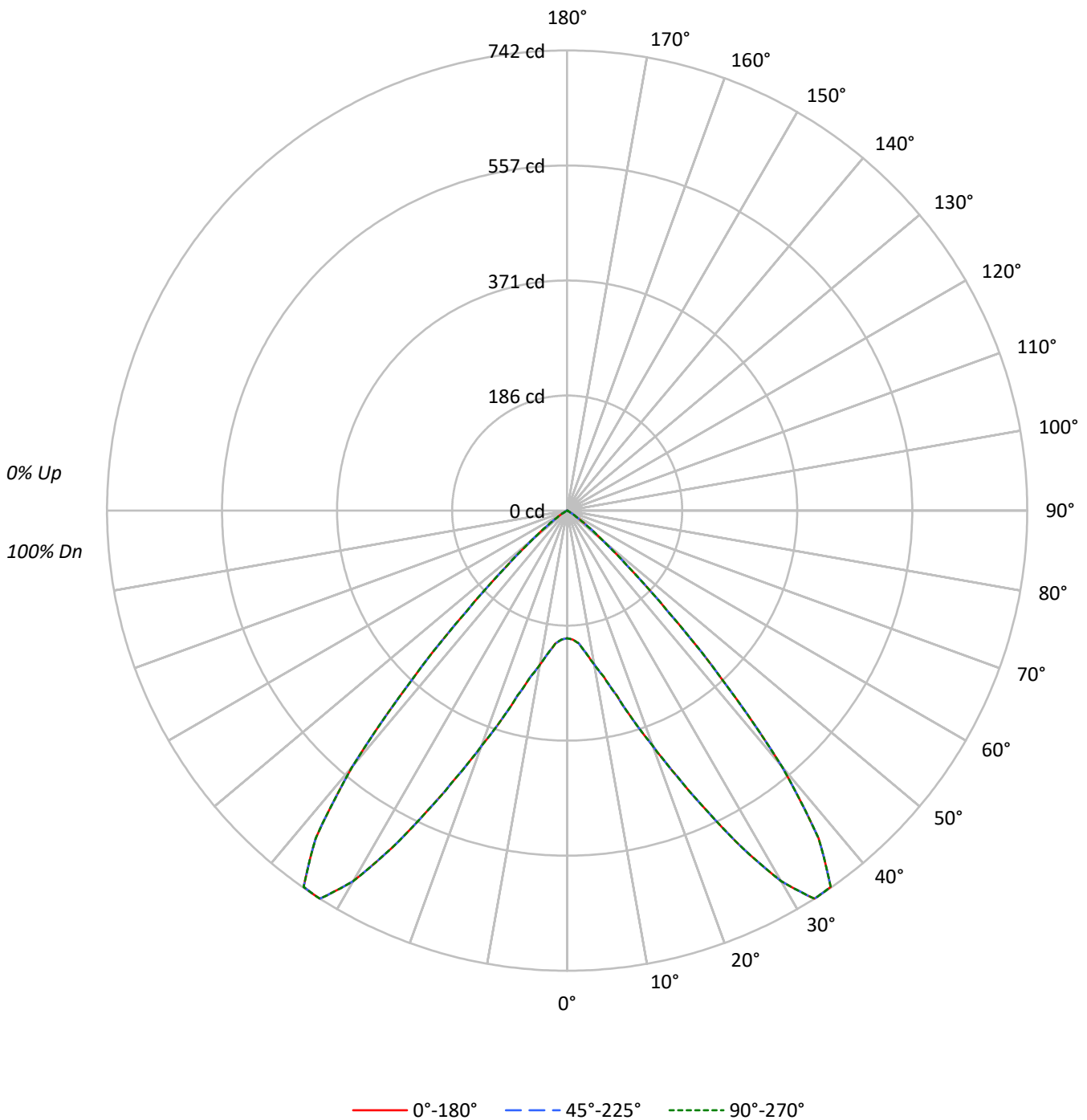
Lumens per Lamp: 1750 (1 lamp)  
Luminaire Lumens: 1022.6 lumens  
Efficiency: 58.4%  
Efficacy: 10.2 lumens/watt  
Spacing Criteria (0/90/45): 1.94 / 1.94 / 1.5  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 100  
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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	58
1	66	64	62	60	64	62	61	59	60	59	58	58	57	56	56	55	54	53
2	61	58	55	53	60	57	54	52	55	53	51	53	51	50	52	50	49	48
3	57	53	49	46	56	52	49	46	50	47	45	49	46	44	47	45	44	43
4	53	48	44	41	52	47	43	41	46	43	40	45	42	40	43	41	39	38
5	50	44	39	36	49	43	39	36	42	38	36	41	38	35	40	37	35	34
6	46	40	35	32	45	39	35	32	38	35	32	37	34	32	36	34	31	30
7	43	36	32	29	42	36	32	29	35	31	28	34	31	28	33	30	28	27
8	40	33	29	26	39	33	29	26	32	28	26	31	28	25	31	28	25	24
9	37	30	26	23	37	30	26	23	29	26	23	29	25	23	28	25	23	22
10	35	28	24	21	34	28	24	21	27	23	21	26	23	21	26	23	21	20

**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°	21.8	2.1	1.2
10°-20°	91.9	9.0	5.3
20°-30°	253.9	24.8	14.5
30°-40°	432.2	42.3	24.7
40°-50°	196.0	19.2	11.2
50°-60°	25.0	2.4	1.4
60°-70°	1.8	0.2	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	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°	367.6	35.9	21.0
0°-40°	799.8	78.2	45.7
0°-60°	1020.7	99.8	58.3
0°-90°	1022.6	100.0	58.4
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°	1022.6	100.0	58.4

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	206	206	206	206	206	
5°	215	215	215	215	215	22
15°	309	309	309	309	309	92
25°	535	535	535	535	535	254
35°	741	741	741	741	741	432
45°	229	229	229	229	229	196
55°	21	21	21	21	21	25
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	206	206	206	206	206	206	206	206	206
2.5°	208	208	208	208	208	208	208	208	208
5°	215	215	215	215	215	215	215	215	215
7.5°	231	231	231	231	231	231	231	231	231
10°	252	252	252	252	252	252	252	252	252
12.5°	275	275	275	275	275	275	275	275	275
15°	309	309	309	309	309	309	309	309	309
17.5°	354	354	354	354	354	354	354	354	354
20°	404	404	404	404	404	404	404	404	404
22.5°	464	464	464	464	464	464	464	464	464
25°	535	535	535	535	535	535	535	535	535
27.5°	614	614	614	614	614	614	614	614	614
30°	690	690	690	690	690	690	690	690	690
32.5°	742	742	742	742	742	742	742	742	742
35°	741	741	741	741	741	741	741	741	741
37.5°	666	666	666	666	666	666	666	666	666
40°	539	539	539	539	539	539	539	539	539
42.5°	372	372	372	372	372	372	372	372	372
45°	229	229	229	229	229	229	229	229	229
47.5°	130	130	130	130	130	130	130	130	130
50°	75	75	75	75	75	75	75	75	75
52.5°	42	42	42	42	42	42	42	42	42
55°	21	21	21	21	21	21	21	21	21
57.5°	11	11	11	11	11	11	11	11	11
60°	5	5	5	5	5	5	5	5	5
62.5°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
67.5°	1	1	1	1	1	1	1	1	1
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)