

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: E395551

Luminaire Tested: **H7-405SC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: E395551  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7-405SC  
Description: HALO RECESSED INC - H7 HOUSING, CLEAR SPECULAR REFL.  
Light Source: 100A19, 1750 LUMENS  
Ballast/Driver: -

**Summary**

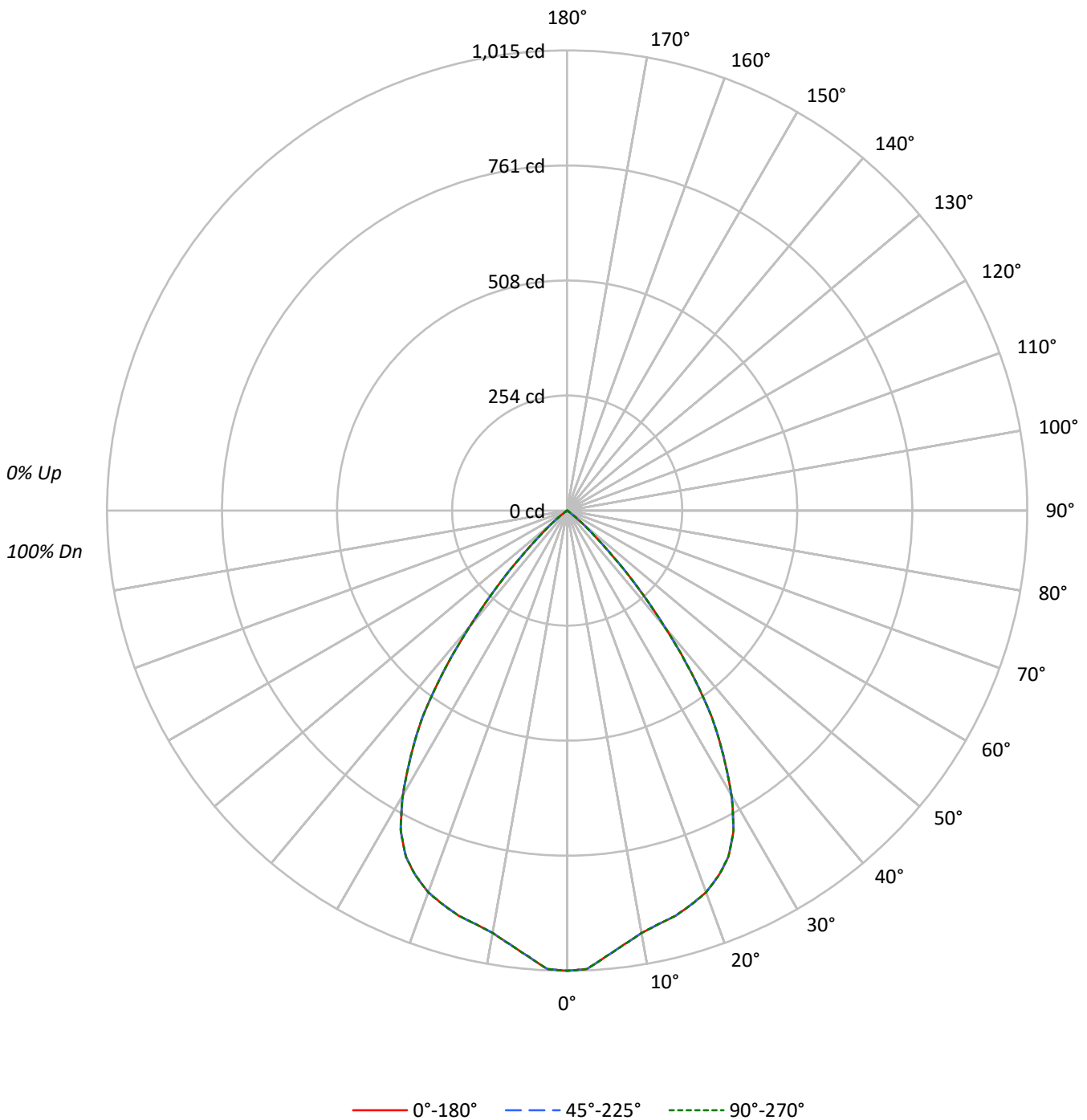
Lumens per Lamp: 1750 (1 lamp)  
Luminaire Lumens: 1204.9 lumens  
Efficiency: 68.8%  
Efficacy: 12.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
Luminous Opening: (L: 0 ' x W: -0.43 ' x H: 0 '  
CIE Type: Direct

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



TEST NUMBER: E395551  
CATALOG NUMBER: H7-405SC

### Luminous Intensity Polar Plot





TEST NUMBER: E395551  
 CATALOG NUMBER: H7-405SC

**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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69		
1	78	76	74	73	76	74	73	71	72	70	69	69	68	67	67	66	65	64		
2	74	70	67	65	72	69	66	64	67	65	63	65	63	61	63	61	60	59		
3	70	65	61	59	68	64	61	58	62	59	57	61	58	56	59	57	55	54		
4	66	60	56	53	65	60	56	53	58	55	52	57	54	52	55	53	51	50		
5	62	56	52	49	61	55	51	48	54	51	48	53	50	47	52	49	47	46		
6	59	52	48	45	58	52	47	44	51	47	44	50	46	44	49	46	43	42		
7	55	49	44	41	54	48	44	41	47	43	41	46	43	41	46	43	40	39		
8	52	45	41	38	52	45	41	38	44	40	38	43	40	38	43	40	37	36		
9	50	43	38	35	49	42	38	35	41	38	35	41	37	35	40	37	35	34		
10	47	40	36	33	46	40	35	33	39	35	33	38	35	33	38	35	32	31		

**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°			



TEST NUMBER: E395551  
 CATALOG NUMBER: H7-405SC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.0	7.7	5.3
10°-20°	260.9	21.7	14.9
20°-30°	381.9	31.7	21.8
30°-40°	337.3	28.0	19.3
40°-50°	121.1	10.1	6.9
50°-60°	9.7	0.8	0.6
60°-70°	1.0	0.1	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°	735.7	61.1	42.0
0°-40°	1073.0	89.1	61.3
0°-60°	1203.9	99.9	68.8
0°-90°	1204.9	100.0	68.8
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°	1204.9	100.0	68.8

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1015	1015	1015	1015	1015	
5°	987	987	987	987	987	93
15°	925	925	925	925	925	261
25°	842	842	842	842	842	382
35°	557	557	557	557	557	337
45°	144	144	144	144	144	121
55°	5	5	5	5	5	10
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: E395551  
 CATALOG NUMBER: H7-405SC

**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°
0°	1015	1015	1015	1015	1015	1015	1015
2.5°	1012	1012	1012	1012	1012	1012	1012
5°	987	987	987	987	987	987	987
7.5°	965	965	965	965	965	965	965
10°	946	946	946	946	946	946	946
12.5°	934	934	934	934	934	934	934
15°	925	925	925	925	925	925	925
17.5°	911	911	911	911	911	911	911
20°	896	896	896	896	896	896	896
22.5°	872	872	872	872	872	872	872
25°	842	842	842	842	842	842	842
27.5°	795	795	795	795	795	795	795
30°	725	725	725	725	725	725	725
32.5°	642	642	642	642	642	642	642
35°	557	557	557	557	557	557	557
37.5°	449	449	449	449	449	449	449
40°	335	335	335	335	335	335	335
42.5°	231	231	231	231	231	231	231
45°	144	144	144	144	144	144	144
47.5°	79	79	79	79	79	79	79
50°	41	41	41	41	41	41	41
52.5°	15	15	15	15	15	15	15
55°	5	5	5	5	5	5	5
57.5°	3	3	3	3	3	3	3
60°	2	2	2	2	2	2	2
62.5°	1	1	1	1	1	1	1
65°	1	1	1	1	1	1	1
67.5°	1	1	1	1	1	1	1
70°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)