

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: E395550

Luminaire Tested: **H7-405SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395550
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: 150A21, 2850 LUMENS
Ballast/Driver: -

Summary

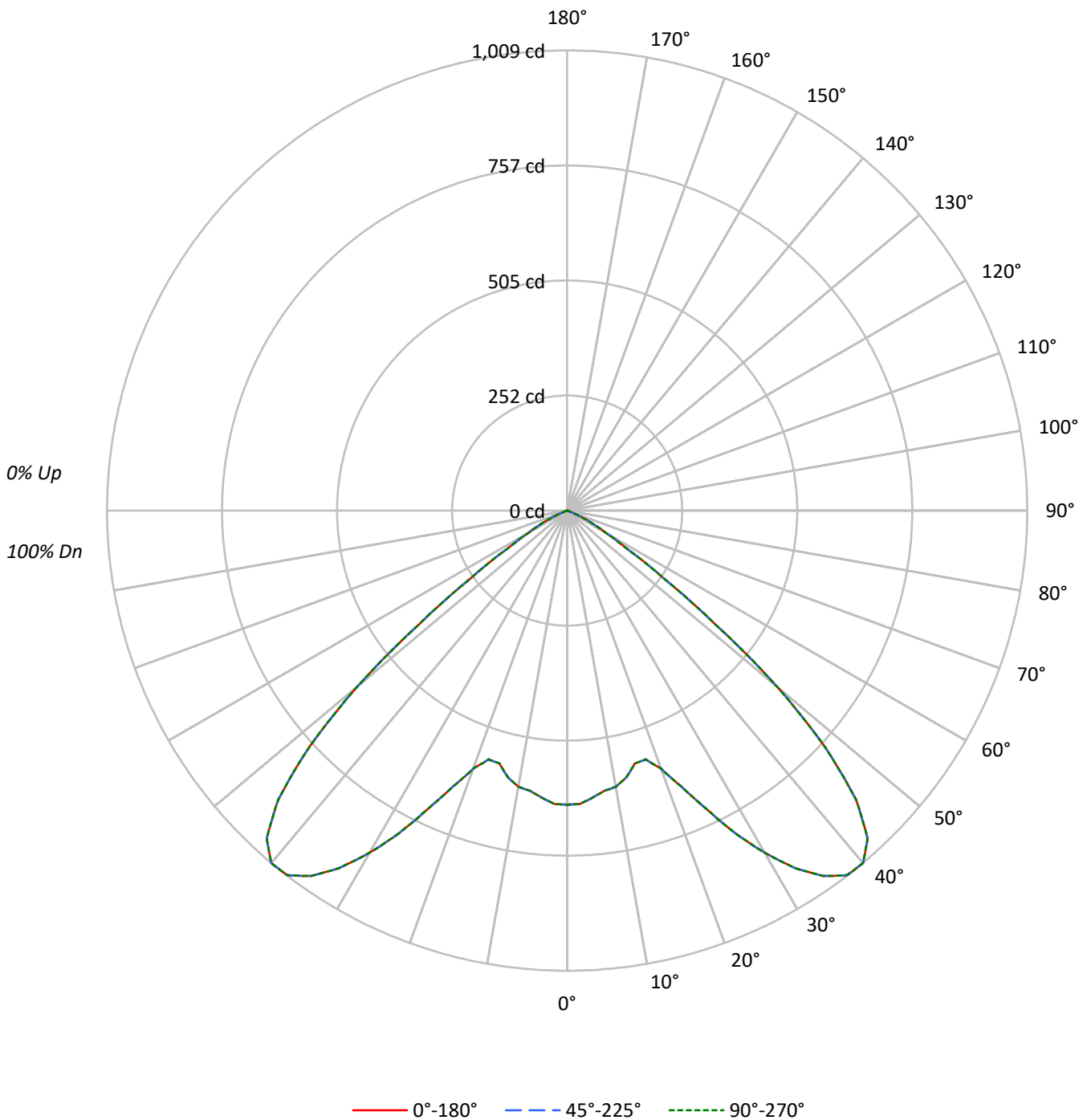
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2138.8 lumens
Efficiency: 75.0%
Efficacy: 14.3 lumens/watt
Spacing Criteria (0/90/45): 1.99 / 1.99 / 1.68
Luminous Opening: (L: 0 ' x W: -0.43 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	77	77	77	75	75	75	75
1	84	81	78	76	82	79	77	75	76	74	73	73	72	71	71	70	68	67	67	67	67
2	77	73	68	65	76	71	67	64	69	65	63	66	64	61	64	62	60	59	59	59	59
3	71	65	60	56	70	64	59	55	62	58	54	60	56	53	58	55	52	51	51	51	51
4	66	58	52	48	64	57	52	48	55	51	47	54	50	46	52	49	46	44	44	44	44
5	61	52	46	42	59	51	46	41	50	45	41	48	44	40	47	43	40	39	39	39	39
6	56	47	41	36	55	46	40	36	45	40	36	44	39	36	42	38	35	34	34	34	34
7	52	42	36	32	51	42	36	32	41	35	32	40	35	31	39	34	31	30	30	30	30
8	48	38	32	28	47	38	32	28	37	32	28	36	31	28	35	31	28	26	26	26	26
9	45	35	29	25	44	34	29	25	34	28	25	33	28	25	32	28	25	23	23	23	23
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	29	25	22	21	21	21	21

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°	59.7	2.8	2.1
10°-20°	166.4	7.8	5.8
20°-30°	340.1	15.9	11.9
30°-40°	606.9	28.4	21.3
40°-50°	662.5	31.0	23.2
50°-60°	258.3	12.1	9.1
60°-70°	42.9	2.0	1.5
70°-80°	2.0	0.1	0.1
80°-90°	0.1	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°	566.2	26.5	19.9
0°-40°	1173.0	54.8	41.2
0°-60°	2093.8	97.9	73.5
0°-90°	2138.8	100.0	75.0
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°	2138.8	100.0	75.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	645	645	645	645	645	
5°	632	632	632	632	632	60
15°	574	574	574	574	574	166
25°	721	721	721	721	721	340
35°	978	978	978	978	978	607
45°	896	896	896	896	896	662
55°	256	256	256	256	256	258
65°	41	41	41	41	41	43
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	645	645	645	645	645	645	645
2.5°	644	644	644	644	644	644	644
5°	632	632	632	632	632	632	632
7.5°	620	620	620	620	620	620	620
10°	615	615	615	615	615	615	615
12.5°	599	599	599	599	599	599	599
15°	574	574	574	574	574	574	574
17.5°	572	572	572	572	572	572	572
20°	602	602	602	602	602	602	602
22.5°	655	655	655	655	655	655	655
25°	721	721	721	721	721	721	721
27.5°	797	797	797	797	797	797	797
30°	866	866	866	866	866	866	866
32.5°	929	929	929	929	929	929	929
35°	978	978	978	978	978	978	978
37.5°	1008	1008	1008	1008	1008	1008	1008
40°	1009	1009	1009	1009	1009	1009	1009
42.5°	975	975	975	975	975	975	975
45°	896	896	896	896	896	896	896
47.5°	767	767	767	767	767	767	767
50°	603	603	603	603	603	603	603
52.5°	408	408	408	408	408	408	408
55°	256	256	256	256	256	256	256
57.5°	156	156	156	156	156	156	156
60°	99	99	99	99	99	99	99
62.5°	68	68	68	68	68	68	68
65°	41	41	41	41	41	41	41
67.5°	15	15	15	15	15	15	15
70°	4	4	4	4	4	4	4
72.5°	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2
77.5°	1	1	1	1	1	1	1
80°	1	1	1	1	1	1	1
82.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0

(END OF REPORT)