

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: E395747

Luminaire Tested: **H7-401**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395747
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-401
Description: HALO RECESSED INC - H7 HOUSING, OPEN TRIM
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

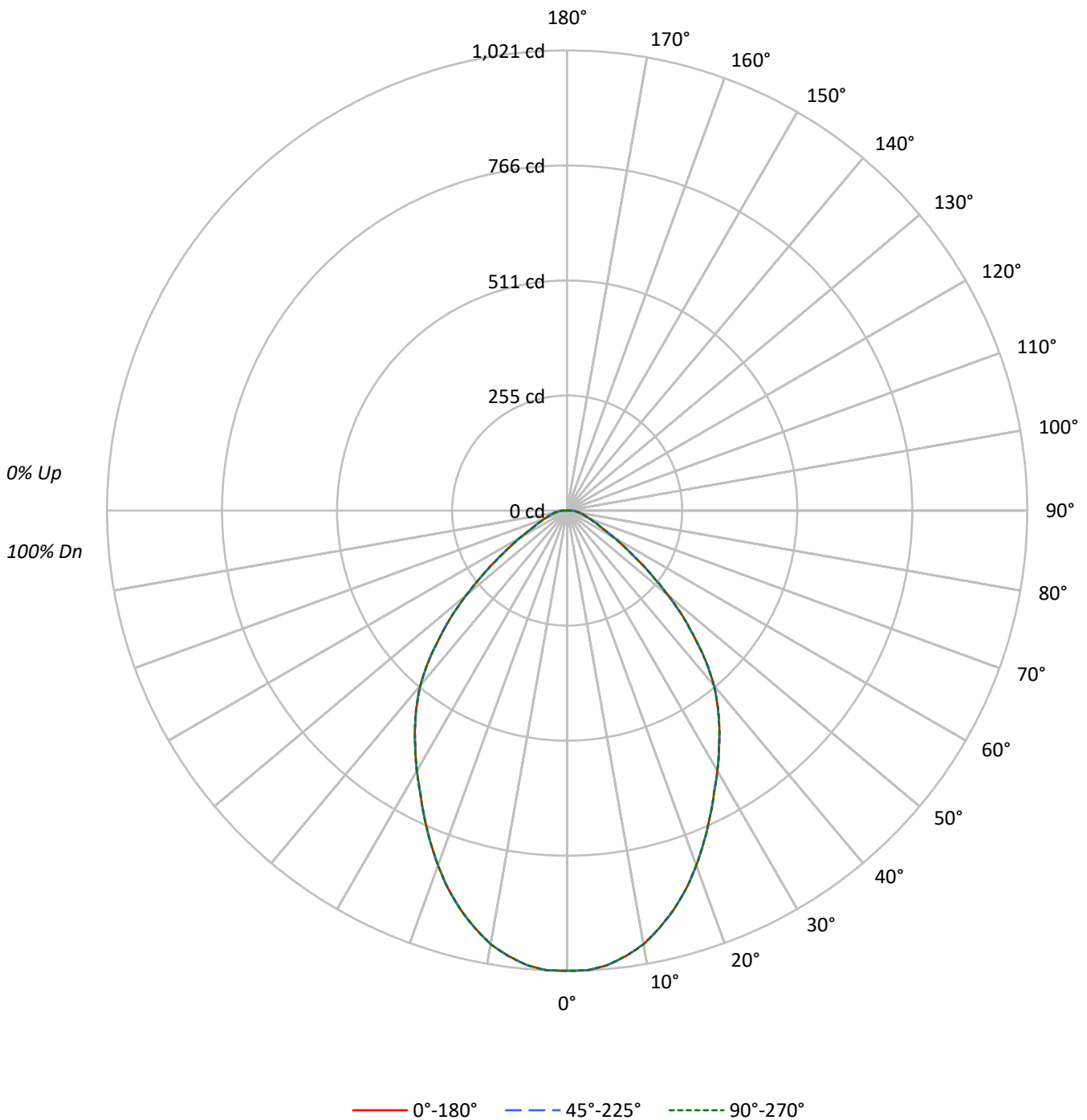
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1691.6 lumens
Efficiency: 89.0%
Efficacy: 11.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.12
Luminous Opening: (L: 0 ' x W: -0.43 ' x H: 0 '
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	104	104	104	104	99	99	99	95	95	95	91	91	91	89				89
1	99	95	92	90	96	93	91	88	90	87	85	86	84	83	83	82	80	79				79
2	92	86	81	77	90	84	80	76	81	77	74	78	75	72	76	73	71	69				69
3	85	77	71	67	83	76	70	66	73	69	65	71	67	64	69	66	63	61				61
4	79	70	64	58	77	69	63	58	67	62	57	65	60	57	63	59	56	54				54
5	74	64	57	52	72	63	56	52	61	55	51	59	55	51	58	54	50	48				48
6	69	58	51	46	67	58	51	46	56	50	46	55	50	46	53	49	45	44				44
7	64	54	47	42	63	53	46	42	52	46	42	50	45	41	49	45	41	39				39
8	60	49	43	38	59	49	42	38	48	42	38	47	41	38	46	41	37	36				36
9	57	46	39	35	55	45	39	35	44	39	35	43	38	34	43	38	34	33				33
10	53	43	36	32	52	42	36	32	41	36	32	41	35	32	40	35	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
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°	95.5	5.6	5.0
10°-20°	256.7	15.2	13.5
20°-30°	345.1	20.4	18.2
30°-40°	367.4	21.7	19.3
40°-50°	308.8	18.3	16.3
50°-60°	175.5	10.4	9.2
60°-70°	79.7	4.7	4.2
70°-80°	42.0	2.5	2.2
80°-90°	21.0	1.2	1.1
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°	697.3	41.2	36.7
0°-40°	1064.7	62.9	56.0
0°-60°	1549.0	91.6	81.5
0°-90°	1691.6	100.0	89.0
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°	1691.6	100.0	89.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1021	1021	1021	1021	1021	
5°	1013	1013	1013	1013	1013	95
15°	916	916	916	916	916	257
25°	750	750	750	750	750	345
35°	589	589	589	589	589	367
45°	402	402	402	402	402	309
55°	192	192	192	192	192	175
65°	77	77	77	77	77	80
75°	39	39	39	39	39	42
85°	19	19	19	19	19	21
90°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1021	1021	1021	1021	1021	1021	1021	1021	1021
2.5°	1021	1021	1021	1021	1021	1021	1021	1021	1021
5°	1013	1013	1013	1013	1013	1013	1013	1013	1013
7.5°	997	997	997	997	997	997	997	997	997
10°	977	977	977	977	977	977	977	977	977
12.5°	948	948	948	948	948	948	948	948	948
15°	916	916	916	916	916	916	916	916	916
17.5°	879	879	879	879	879	879	879	879	879
20°	838	838	838	838	838	838	838	838	838
22.5°	794	794	794	794	794	794	794	794	794
25°	750	750	750	750	750	750	750	750	750
27.5°	706	706	706	706	706	706	706	706	706
30°	667	667	667	667	667	667	667	667	667
32.5°	627	627	627	627	627	627	627	627	627
35°	589	589	589	589	589	589	589	589	589
37.5°	549	549	549	549	549	549	549	549	549
40°	507	507	507	507	507	507	507	507	507
42.5°	457	457	457	457	457	457	457	457	457
45°	402	402	402	402	402	402	402	402	402
47.5°	348	348	348	348	348	348	348	348	348
50°	292	292	292	292	292	292	292	292	292
52.5°	239	239	239	239	239	239	239	239	239
55°	192	192	192	192	192	192	192	192	192
57.5°	152	152	152	152	152	152	152	152	152
60°	120	120	120	120	120	120	120	120	120
62.5°	95	95	95	95	95	95	95	95	95
65°	77	77	77	77	77	77	77	77	77
67.5°	64	64	64	64	64	64	64	64	64
70°	54	54	54	54	54	54	54	54	54
72.5°	46	46	46	46	46	46	46	46	46
75°	39	39	39	39	39	39	39	39	39
77.5°	33	33	33	33	33	33	33	33	33
80°	28	28	28	28	28	28	28	28	28
82.5°	23	23	23	23	23	23	23	23	23
85°	19	19	19	19	19	19	19	19	19
87.5°	15	15	15	15	15	15	15	15	15
90°	12	12	12	12	12	12	12	12	12

(END OF REPORT)