

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: E395899

Luminaire Tested: **H7-4091**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395899
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-4091
Description: HALO RECESSED INC. - H7 HOUSING, COILEX BAFFLE
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

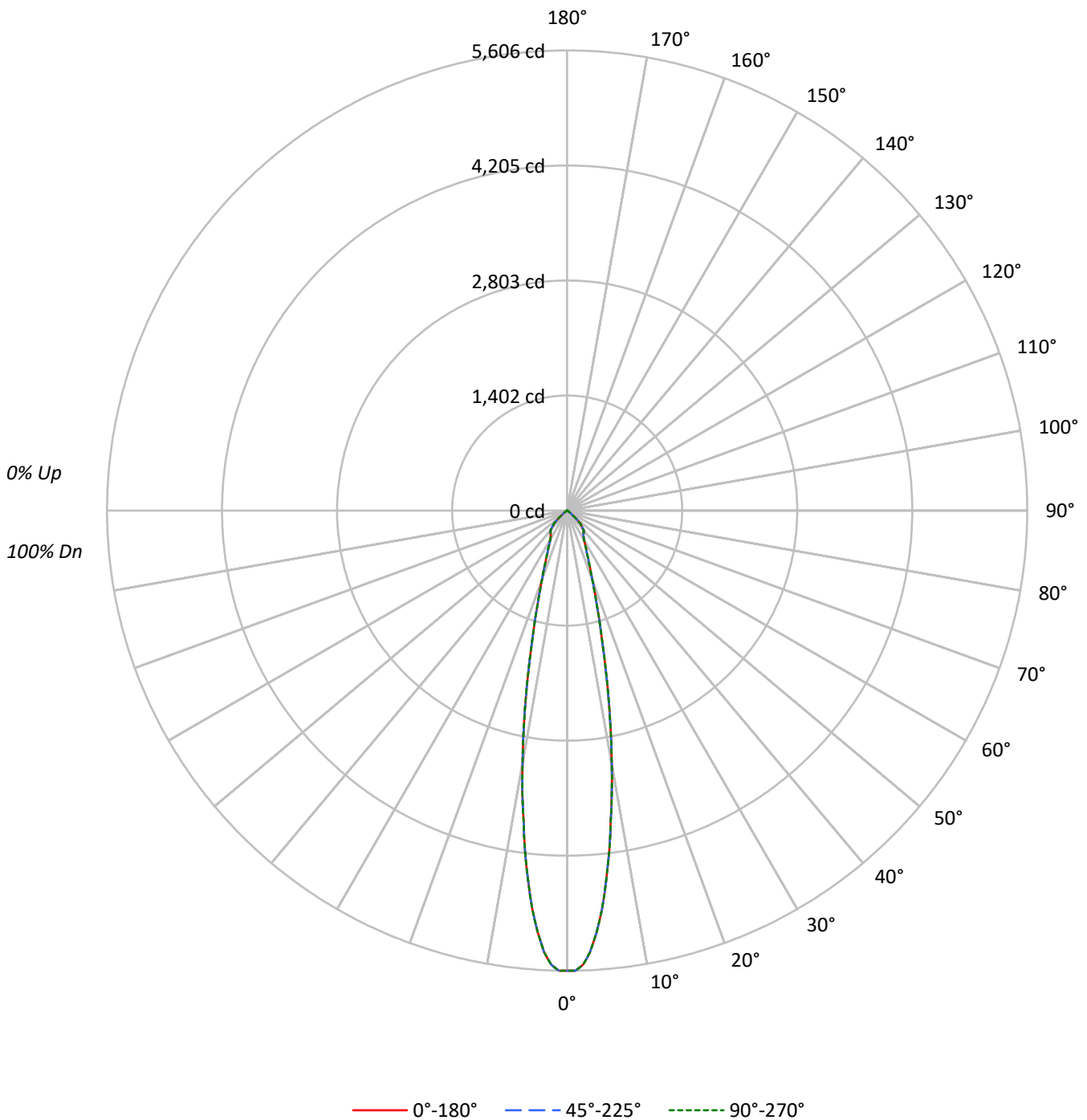
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1590.4 lumens
Efficiency: 83.7%
Efficacy: 10.6 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.39
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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	0
RCR																				
0	100	100	100	100	97	97	97	97	93	93	93		89	89	89		85	85	85	84
1	95	93	91	89	93	91	89	88	88	86	85		85	84	83		82	81	80	79
2	91	87	84	81	89	86	83	80	83	81	78		80	79	77		78	77	75	74
3	87	82	78	75	85	81	77	74	78	75	73		76	74	72		75	72	71	69
4	83	77	73	69	81	76	72	69	74	71	68		73	70	67		71	69	67	65
5	79	73	68	65	78	72	68	65	71	67	64		69	66	64		68	65	63	62
6	76	69	65	61	75	68	64	61	67	63	61		66	63	60		65	62	60	59
7	73	66	61	58	72	65	61	58	64	60	58		63	60	57		62	59	57	56
8	70	63	58	55	69	62	58	55	61	58	55		61	57	55		60	57	54	53
9	67	60	56	53	66	60	55	53	59	55	52		58	55	52		58	54	52	51
10	65	58	53	50	64	57	53	50	57	53	50		56	53	50		56	52	50	49

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°	406.0	25.5	21.4
10°-20°	472.9	29.7	24.9
20°-30°	270.5	17.0	14.2
30°-40°	220.4	13.9	11.6
40°-50°	162.4	10.2	8.5
50°-60°	35.1	2.2	1.8
60°-70°	13.8	0.9	0.7
70°-80°	6.9	0.4	0.4
80°-90°	2.4	0.2	0.1
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°	1149.4	72.3	60.5
0°-40°	1369.8	86.1	72.1
0°-60°	1567.2	98.5	82.5
0°-90°	1590.4	100.0	83.7
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°	1590.4	100.0	83.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5605	5605	5605	5605	5605	
5°	4875	4875	4875	4875	4875	406
15°	1648	1648	1648	1648	1648	473
25°	569	569	569	569	569	270
35°	349	349	349	349	349	220
45°	231	231	231	231	231	162
55°	31	31	31	31	31	35
65°	13	13	13	13	13	14
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
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°	5605	5605	5605	5605	5605	5605	5605	5605	5605
1°	5606	5606	5606	5606	5606	5606	5606	5606	5606
2°	5538	5538	5538	5538	5538	5538	5538	5538	5538
3°	5381	5381	5381	5381	5381	5381	5381	5381	5381
4°	5151	5151	5151	5151	5151	5151	5151	5151	5151
5°	4875	4875	4875	4875	4875	4875	4875	4875	4875
6°	4542	4542	4542	4542	4542	4542	4542	4542	4542
7°	4196	4196	4196	4196	4196	4196	4196	4196	4196
8°	3818	3818	3818	3818	3818	3818	3818	3818	3818
9°	3482	3482	3482	3482	3482	3482	3482	3482	3482
10°	3133	3133	3133	3133	3133	3133	3133	3133	3133
11°	2793	2793	2793	2793	2793	2793	2793	2793	2793
12°	2472	2472	2472	2472	2472	2472	2472	2472	2472
13°	2175	2175	2175	2175	2175	2175	2175	2175	2175
14°	1892	1892	1892	1892	1892	1892	1892	1892	1892
15°	1648	1648	1648	1648	1648	1648	1648	1648	1648
17.5°	1189	1189	1189	1189	1189	1189	1189	1189	1189
20°	889	889	889	889	889	889	889	889	889
22.5°	698	698	698	698	698	698	698	698	698
25°	569	569	569	569	569	569	569	569	569
27.5°	476	476	476	476	476	476	476	476	476
30°	409	409	409	409	409	409	409	409	409
32.5°	372	372	372	372	372	372	372	372	372
35°	349	349	349	349	349	349	349	349	349
37.5°	329	329	329	329	329	329	329	329	329
40°	312	312	312	312	312	312	312	312	312
45°	231	231	231	231	231	231	231	231	231
50°	75	75	75	75	75	75	75	75	75
55°	31	31	31	31	31	31	31	31	31
60°	21	21	21	21	21	21	21	21	21
65°	13	13	13	13	13	13	13	13	13
70°	9	9	9	9	9	9	9	9	9
75°	6	6	6	6	6	6	6	6	6
80°	5	5	5	5	5	5	5	5	5
85°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)