

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: E395569

Luminaire Tested: **H7-310**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395569
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-310
Description: HALO RECESSED INC - H7 HOUSING, COILEX BAFFLE
Light Source: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

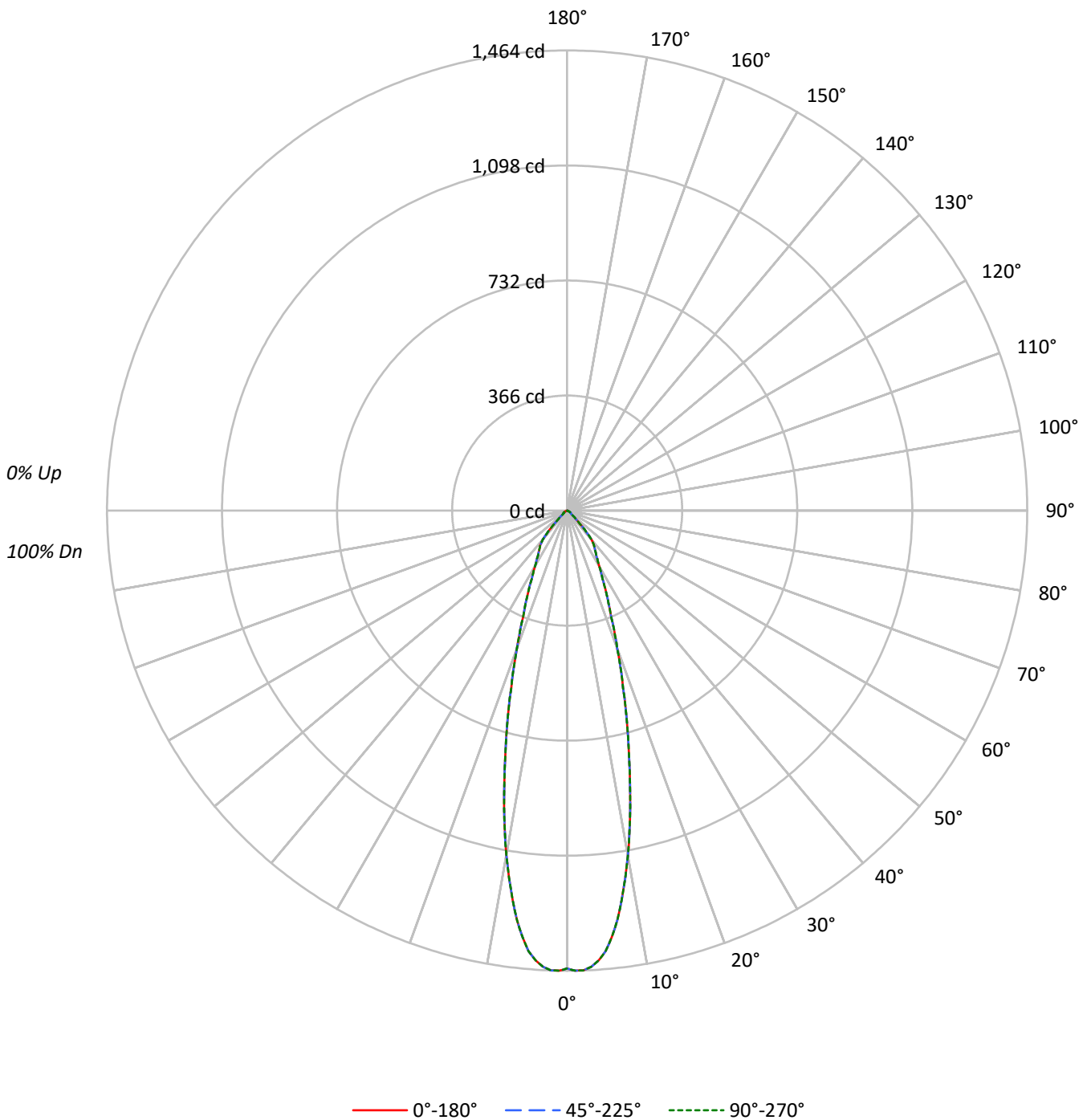
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 630.6 lumens
Efficiency: 70.1%
Efficacy: 8.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.53
Luminous Opening: (L: 0 ' x W: -0.49 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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	83	83	83	83	81	81	81	81	78	78	78		75	75	75		71	71	71	70
1	80	78	76	75	78	76	75	74	74	72	71		71	70	69		69	68	67	66
2	76	73	70	68	75	72	69	67	70	68	66		67	66	64		66	64	63	62
3	73	68	65	63	71	68	65	62	66	63	61		64	62	60		62	61	59	58
4	69	64	61	58	68	64	60	58	62	59	57		61	58	56		60	57	56	55
5	66	61	57	54	65	60	57	54	59	56	54		58	55	53		57	54	53	52
6	63	58	54	51	62	57	53	51	56	53	50		55	52	50		54	52	50	49
7	61	55	51	48	60	54	51	48	53	50	48		53	50	48		52	49	47	46
8	58	52	48	46	57	52	48	46	51	48	45		50	47	45		50	47	45	44
9	56	50	46	43	55	49	46	43	49	45	43		48	45	43		48	45	43	42
10	54	47	44	41	53	47	44	41	47	43	41		46	43	41		46	43	41	40

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°	124.5	19.7	13.8
10°-20°	206.8	32.8	23.0
20°-30°	140.4	22.3	15.6
30°-40°	98.6	15.6	11.0
40°-50°	42.7	6.8	4.7
50°-60°	12.8	2.0	1.4
60°-70°	4.9	0.8	0.5
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°	471.7	74.8	52.4
0°-40°	570.3	90.4	63.4
0°-60°	625.7	99.2	69.5
0°-90°	630.6	100.0	70.1
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°	630.6	100.0	70.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1457	1457	1457	1457	1457	
5°	1407	1407	1407	1407	1407	124
15°	750	750	750	750	750	207
25°	298	298	298	298	298	140
35°	155	155	155	155	155	99
45°	43	43	43	43	43	43
55°	14	14	14	14	14	13
65°	4	4	4	4	4	5
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°	30°	60°	90°	120°	150°	180°
0°	1457	1457	1457	1457	1457	1457	1457
1°	1464	1464	1464	1464	1464	1464	1464
2°	1464	1464	1464	1464	1464	1464	1464
3°	1454	1454	1454	1454	1454	1454	1454
4°	1435	1435	1435	1435	1435	1435	1435
5°	1407	1407	1407	1407	1407	1407	1407
6°	1363	1363	1363	1363	1363	1363	1363
7°	1312	1312	1312	1312	1312	1312	1312
8°	1250	1250	1250	1250	1250	1250	1250
9°	1182	1182	1182	1182	1182	1182	1182
10°	1114	1114	1114	1114	1114	1114	1114
11°	1040	1040	1040	1040	1040	1040	1040
12°	964	964	964	964	964	964	964
13°	889	889	889	889	889	889	889
14°	816	816	816	816	816	816	816
15°	750	750	750	750	750	750	750
17.5°	592	592	592	592	592	592	592
20°	466	466	466	466	466	466	466
22.5°	367	367	367	367	367	367	367
25°	298	298	298	298	298	298	298
27.5°	244	244	244	244	244	244	244
30°	203	203	203	203	203	203	203
32.5°	175	175	175	175	175	175	175
35°	155	155	155	155	155	155	155
37.5°	141	141	141	141	141	141	141
40°	122	122	122	122	122	122	122
45°	43	43	43	43	43	43	43
50°	17	17	17	17	17	17	17
55°	14	14	14	14	14	14	14
60°	12	12	12	12	12	12	12
65°	4	4	4	4	4	4	4
70°	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)