

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: E395568

Luminaire Tested: **H7-310**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395568
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: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

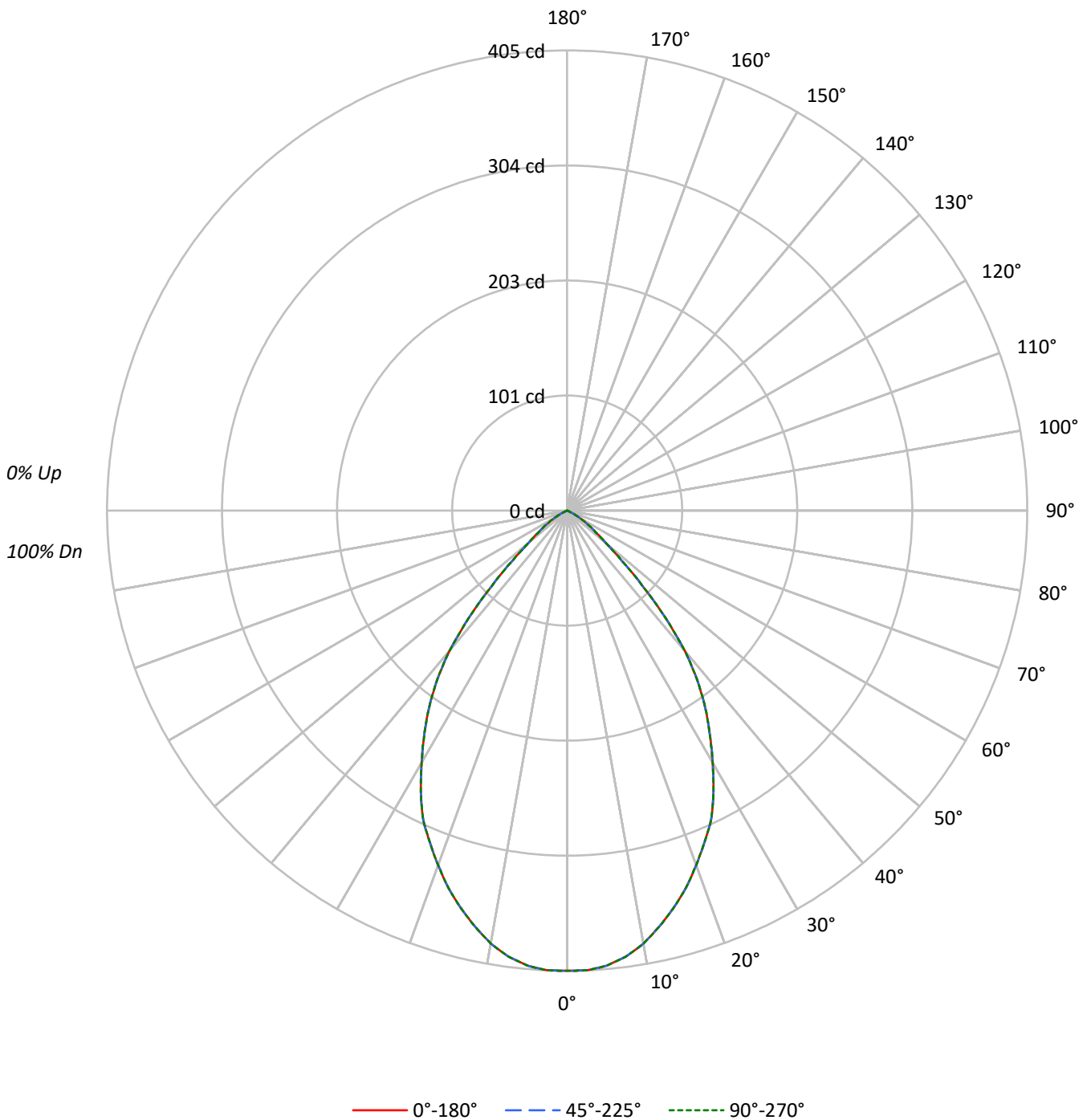
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 509.3 lumens
Efficiency: 56.6%
Efficacy: 6.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.05
Luminous Opening: (L: 0 ' x W: -0.49 ' x H: 0 '
CIE Type: Direct

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	67	67	67	67	66	66	66	66	63	63	63		60	60	60		58	58	58	57
1	64	62	61	59	62	61	59	58	59	57	56		56	56	55		54	54	53	52
2	60	57	54	52	59	56	54	52	54	52	51		52	51	49		51	50	48	47
3	57	52	49	47	55	52	49	46	50	48	46		49	47	45		47	46	44	43
4	53	48	45	42	52	48	44	42	46	43	41		45	43	41		44	42	40	39
5	50	45	41	38	49	44	40	38	43	40	37		42	39	37		41	39	37	36
6	47	41	37	35	46	41	37	35	40	37	34		39	36	34		38	36	34	33
7	44	38	34	32	43	38	34	32	37	34	31		36	33	31		36	33	31	30
8	42	36	32	29	41	35	32	29	35	31	29		34	31	29		33	31	29	28
9	39	33	29	27	39	33	29	27	32	29	27		32	29	27		31	29	27	26
10	37	31	27	25	37	31	27	25	30	27	25		30	27	25		29	27	25	24

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°	37.9	7.4	4.2
10°-20°	101.6	19.9	11.3
20°-30°	136.6	26.8	15.2
30°-40°	131.2	25.8	14.6
40°-50°	74.2	14.6	8.2
50°-60°	23.2	4.5	2.6
60°-70°	4.3	0.8	0.5
70°-80°	0.4	0.1	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°	276.0	54.2	30.7
0°-40°	407.2	80.0	45.2
0°-60°	504.6	99.1	56.1
0°-90°	509.3	100.0	56.6
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°	509.3	100.0	56.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	405	405	405	405	405	
5°	402	402	402	402	402	38
15°	362	362	362	362	362	102
25°	300	300	300	300	300	137
35°	212	212	212	212	212	131
45°	94	94	94	94	94	74
55°	25	25	25	25	25	23
65°	3	3	3	3	3	4
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°	405	405	405	405	405	405	405
2.5°	405	405	405	405	405	405	405
5°	402	402	402	402	402	402	402
7.5°	396	396	396	396	396	396	396
10°	387	387	387	387	387	387	387
12.5°	375	375	375	375	375	375	375
15°	362	362	362	362	362	362	362
17.5°	348	348	348	348	348	348	348
20°	332	332	332	332	332	332	332
22.5°	316	316	316	316	316	316	316
25°	300	300	300	300	300	300	300
27.5°	279	279	279	279	279	279	279
30°	256	256	256	256	256	256	256
32.5°	234	234	234	234	234	234	234
35°	212	212	212	212	212	212	212
37.5°	188	188	188	188	188	188	188
40°	161	161	161	161	161	161	161
42.5°	128	128	128	128	128	128	128
45°	94	94	94	94	94	94	94
47.5°	65	65	65	65	65	65	65
50°	45	45	45	45	45	45	45
52.5°	33	33	33	33	33	33	33
55°	25	25	25	25	25	25	25
57.5°	18	18	18	18	18	18	18
60°	12	12	12	12	12	12	12
62.5°	7	7	7	7	7	7	7
65°	3	3	3	3	3	3	3
67.5°	1	1	1	1	1	1	1
70°	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1
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)