

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: E395876

Luminaire Tested: **H7-4100**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395876
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-4100
Description: HALO RECESSED INC. COILEX BAFFLE, S.S. "0"
Light Source: 150R40SP, 1900 LUMENS
Ballast/Driver: -

Summary

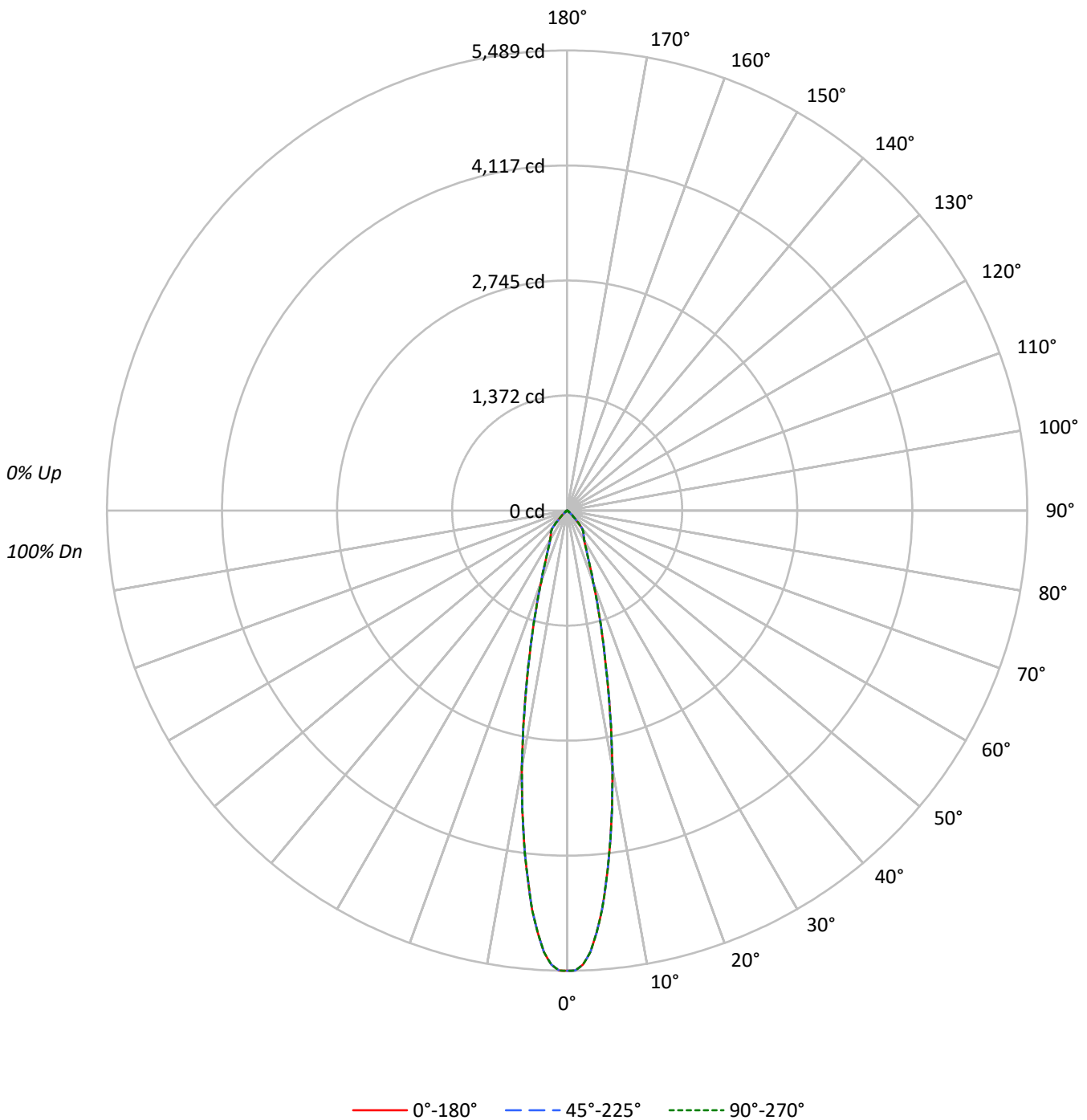
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1499.8 lumens
Efficiency: 78.9%
Efficacy: 10.0 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79		
1	90	88	86	85	88	86	85	83	83	82	81	80	79	78	78	77	76	75		
2	86	83	80	77	84	81	79	77	79	77	75	77	75	73	74	73	72	71		
3	82	78	74	72	81	77	74	71	75	72	70	73	71	69	71	69	68	67		
4	79	74	70	67	78	73	69	67	71	68	66	70	67	65	68	66	64	63		
5	76	70	66	63	75	69	65	63	68	65	62	67	64	62	65	63	61	60		
6	73	67	62	60	72	66	62	59	65	61	59	64	61	59	63	60	58	57		
7	70	64	59	57	69	63	59	56	62	59	56	61	58	56	60	58	56	55		
8	67	61	57	54	66	60	57	54	60	56	54	59	56	53	58	55	53	52		
9	65	58	54	52	64	58	54	52	57	54	51	57	54	51	56	53	51	50		
10	63	56	52	50	62	56	52	50	55	52	49	55	51	49	54	51	49	48		

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°	399.5	26.6	21.0
10°-20°	478.1	31.9	25.2
20°-30°	268.9	17.9	14.2
30°-40°	212.3	14.2	11.2
40°-50°	101.0	6.7	5.3
50°-60°	24.5	1.6	1.3
60°-70°	12.1	0.8	0.6
70°-80°	3.4	0.2	0.2
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°	1146.4	76.4	60.3
0°-40°	1358.7	90.6	71.5
0°-60°	1484.3	99.0	78.1
0°-90°	1499.8	100.0	78.9
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°	1499.8	100.0	78.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5489	5489	5489	5489	5489	
5°	4781	4781	4781	4781	4781	399
15°	1682	1682	1682	1682	1682	478
25°	562	562	562	562	562	269
35°	340	340	340	340	340	212
45°	110	110	110	110	110	101
55°	26	26	26	26	26	25
65°	12	12	12	12	12	12
75°	3	3	3	3	3	3
85°	0	0	0	0	0	0
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°	5489	5489	5489	5489	5489	5489	5489	5489	5489
1°	5487	5487	5487	5487	5487	5487	5487	5487	5487
2°	5419	5419	5419	5419	5419	5419	5419	5419	5419
3°	5274	5274	5274	5274	5274	5274	5274	5274	5274
4°	5049	5049	5049	5049	5049	5049	5049	5049	5049
5°	4781	4781	4781	4781	4781	4781	4781	4781	4781
6°	4455	4455	4455	4455	4455	4455	4455	4455	4455
7°	4124	4124	4124	4124	4124	4124	4124	4124	4124
8°	3781	3781	3781	3781	3781	3781	3781	3781	3781
9°	3440	3440	3440	3440	3440	3440	3440	3440	3440
10°	3107	3107	3107	3107	3107	3107	3107	3107	3107
11°	2775	2775	2775	2775	2775	2775	2775	2775	2775
12°	2459	2459	2459	2459	2459	2459	2459	2459	2459
13°	2172	2172	2172	2172	2172	2172	2172	2172	2172
14°	1913	1913	1913	1913	1913	1913	1913	1913	1913
15°	1682	1682	1682	1682	1682	1682	1682	1682	1682
17.5°	1228	1228	1228	1228	1228	1228	1228	1228	1228
20°	903	903	903	903	903	903	903	903	903
22.5°	699	699	699	699	699	699	699	699	699
25°	562	562	562	562	562	562	562	562	562
27.5°	465	465	465	465	465	465	465	465	465
30°	406	406	406	406	406	406	406	406	406
32.5°	366	366	366	366	366	366	366	366	366
35°	340	340	340	340	340	340	340	340	340
37.5°	316	316	316	316	316	316	316	316	316
40°	272	272	272	272	272	272	272	272	272
45°	110	110	110	110	110	110	110	110	110
50°	40	40	40	40	40	40	40	40	40
55°	26	26	26	26	26	26	26	26	26
60°	18	18	18	18	18	18	18	18	18
65°	12	12	12	12	12	12	12	12	12
70°	7	7	7	7	7	7	7	7	7
75°	3	3	3	3	3	3	3	3	3
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)