

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: E395725

Luminaire Tested: **H7-310/H930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395725
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-310/H930
Description: HALO RECESSED INC - H7 HOUSING, ADJ, COILEX BAFFLE, 0 DEG TILT
Light Source: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

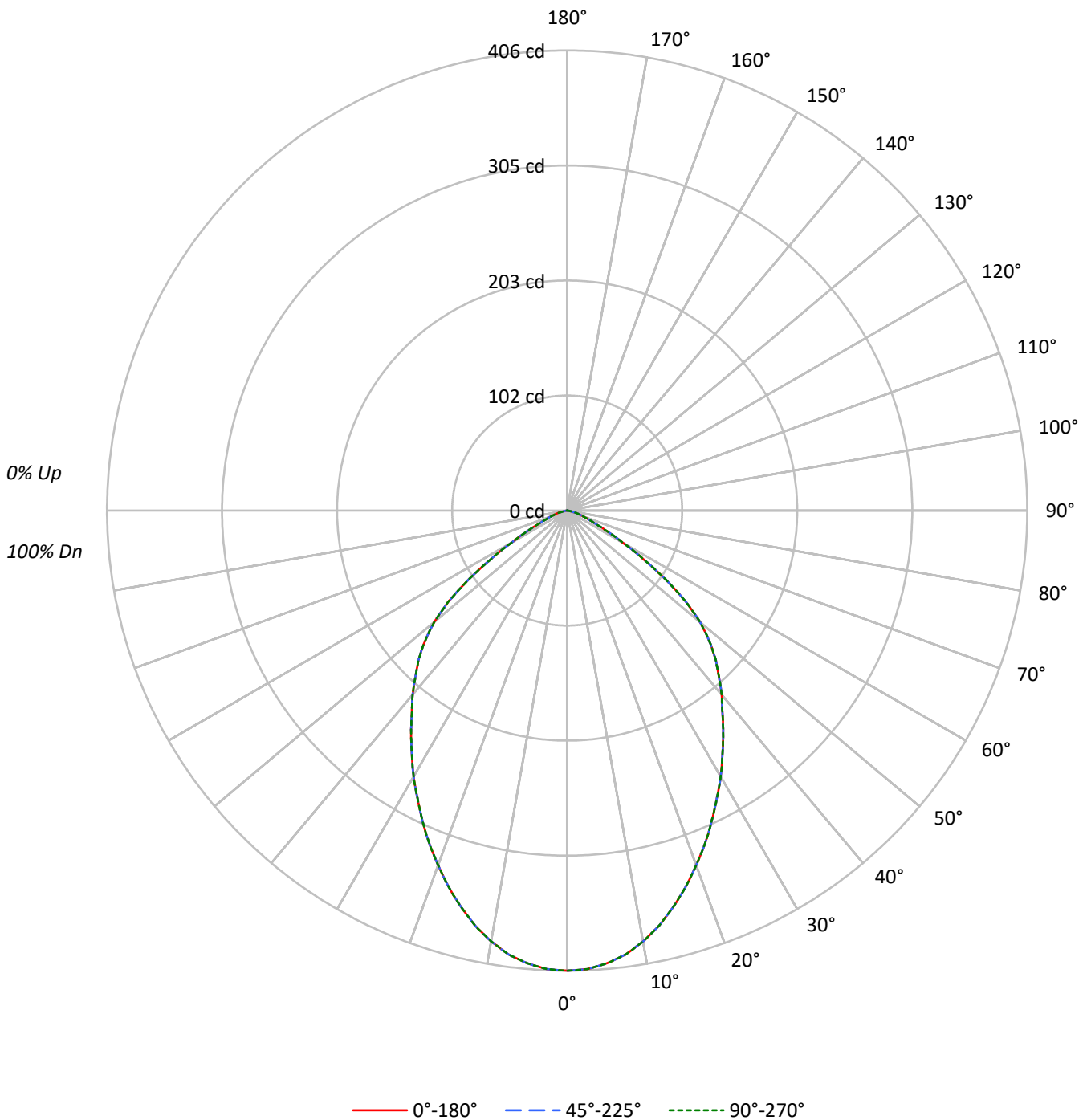
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 703.2 lumens
Efficiency: 78.1%
Efficacy: 9.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.15
Luminous Opening: (L: 0 ' x W: -0.49 ' x H: 0 '
CIE Type: Direct

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	93	93	93	93	91	91	91	91	87	87	87		83	83	83		80	80	80	78
1	87	84	82	80	85	83	80	78	79	78	76		76	75	74		74	72	71	70
2	81	76	72	68	79	74	71	67	72	69	66		69	67	64		67	65	63	61
3	75	68	63	59	73	67	62	58	65	61	57		63	59	56		61	58	56	54
4	70	62	56	52	68	61	55	51	59	54	51		57	53	50		56	52	49	48
5	65	56	50	46	63	55	50	45	54	49	45		52	48	44		51	47	44	43
6	60	51	45	41	59	50	45	40	49	44	40		48	43	40		47	43	39	38
7	56	47	41	36	55	46	40	36	45	40	36		44	39	36		43	39	36	34
8	52	43	37	33	51	43	37	33	42	36	33		41	36	33		40	36	32	31
9	49	40	34	30	48	39	34	30	38	33	30		38	33	30		37	33	30	28
10	46	37	31	28	45	37	31	27	36	31	27		35	31	27		34	30	27	26

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°	37.8	5.4	4.2
10°-20°	101.6	14.4	11.3
20°-30°	138.9	19.8	15.4
30°-40°	150.3	21.4	16.7
40°-50°	141.8	20.2	15.8
50°-60°	94.0	13.4	10.4
60°-70°	30.3	4.3	3.4
70°-80°	8.3	1.2	0.9
80°-90°	0.3	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°	278.3	39.6	30.9
0°-40°	428.6	60.9	47.6
0°-60°	664.4	94.5	73.8
0°-90°	703.2	100.0	78.1
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°	703.2	100.0	78.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	406	406	406	406	406	
5°	401	401	401	401	401	38
15°	362	362	362	362	362	102
25°	302	302	302	302	302	139
35°	240	240	240	240	240	150
45°	185	185	185	185	185	142
55°	106	106	106	106	106	94
65°	27	27	27	27	27	30
75°	8	8	8	8	8	8
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°	406	406	406	406	406	406	406	406	406
2.5°	405	405	405	405	405	405	405	405	405
5°	401	401	401	401	401	401	401	401	401
7.5°	395	395	395	395	395	395	395	395	395
10°	386	386	386	386	386	386	386	386	386
12.5°	375	375	375	375	375	375	375	375	375
15°	362	362	362	362	362	362	362	362	362
17.5°	348	348	348	348	348	348	348	348	348
20°	333	333	333	333	333	333	333	333	333
22.5°	318	318	318	318	318	318	318	318	318
25°	302	302	302	302	302	302	302	302	302
27.5°	286	286	286	286	286	286	286	286	286
30°	271	271	271	271	271	271	271	271	271
32.5°	255	255	255	255	255	255	255	255	255
35°	240	240	240	240	240	240	240	240	240
37.5°	225	225	225	225	225	225	225	225	225
40°	212	212	212	212	212	212	212	212	212
42.5°	198	198	198	198	198	198	198	198	198
45°	185	185	185	185	185	185	185	185	185
47.5°	170	170	170	170	170	170	170	170	170
50°	153	153	153	153	153	153	153	153	153
52.5°	132	132	132	132	132	132	132	132	132
55°	106	106	106	106	106	106	106	106	106
57.5°	80	80	80	80	80	80	80	80	80
60°	57	57	57	57	57	57	57	57	57
62.5°	40	40	40	40	40	40	40	40	40
65°	27	27	27	27	27	27	27	27	27
67.5°	20	20	20	20	20	20	20	20	20
70°	15	15	15	15	15	15	15	15	15
72.5°	11	11	11	11	11	11	11	11	11
75°	8	8	8	8	8	8	8	8	8
77.5°	4	4	4	4	4	4	4	4	4
80°	2	2	2	2	2	2	2	2	2
82.5°	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)