

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: E395895

Luminaire Tested: **H7-78**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395895
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-78
Description: HALO RECESSED INC. - H7 HOUSING, EYEBALL, 0 DEG. TILT
Light Source: 75R30FL, 900 LUMENS
Ballast/Driver: -

Summary

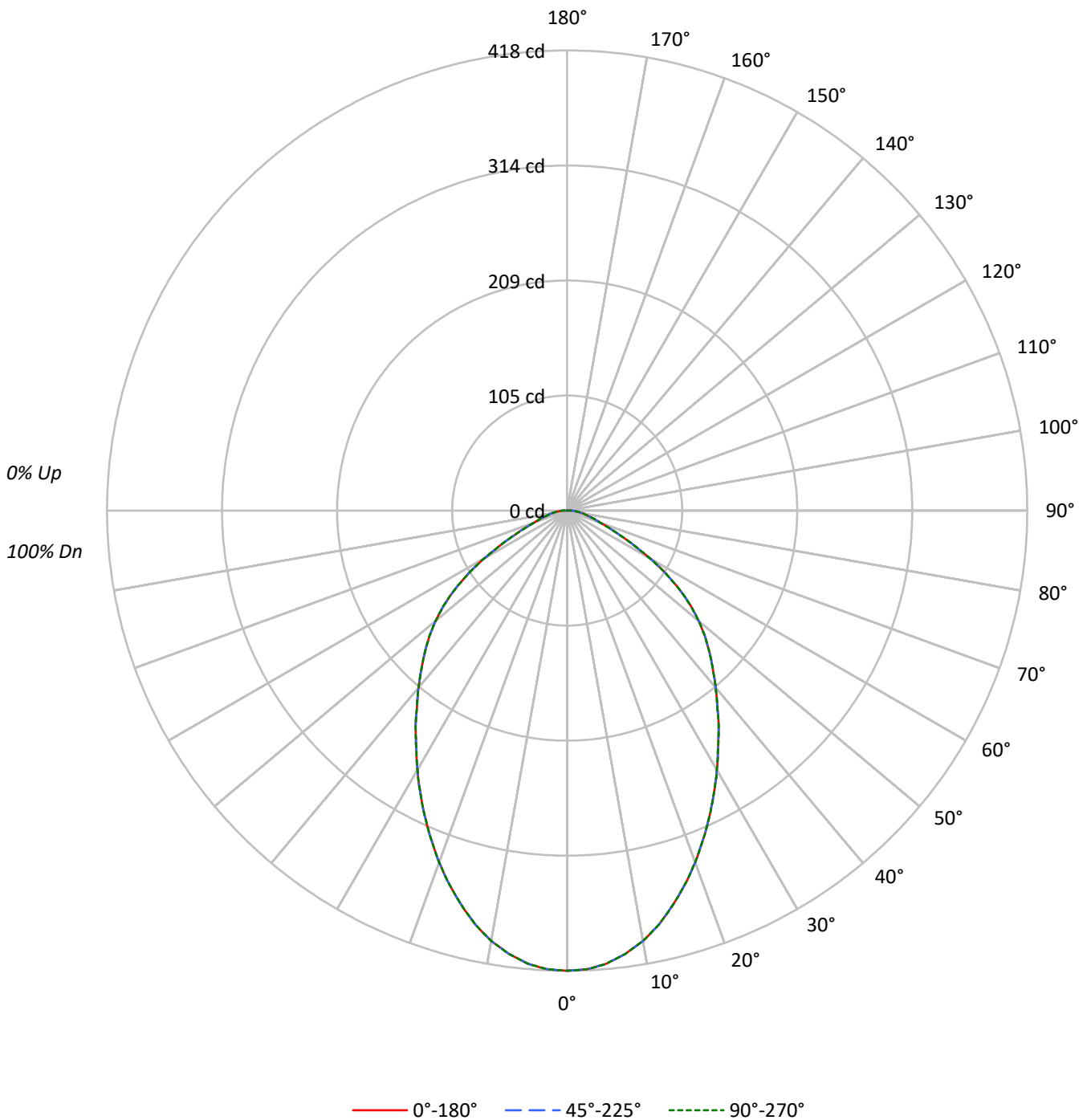
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 772.7 lumens
Efficiency: 85.9%
Efficacy: 10.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.13
Luminous Opening: (L: 0 ' x W: -0.34 ' x H: 0 '
CIE Type: Direct

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	102	102	102	102	100	100	100	100	95	95	95	91	91	91	87	87	87	86
1	95	91	88	85	93	89	87	84	86	83	81	82	81	79	79	78	76	75
2	87	81	76	72	85	80	75	71	77	73	70	74	71	68	71	69	66	65
3	81	73	67	62	79	71	66	61	69	64	60	67	62	59	64	61	58	56
4	75	65	59	54	73	64	58	53	62	57	52	60	56	52	58	54	51	49
5	69	59	52	47	67	58	52	47	56	51	46	55	50	46	53	49	45	44
6	64	54	47	42	63	53	46	42	52	46	41	50	45	41	49	44	41	39
7	60	49	42	37	58	49	42	37	47	41	37	46	41	37	45	40	37	35
8	56	45	38	34	55	45	38	34	44	38	34	43	37	33	42	37	33	32
9	53	42	35	31	51	41	35	31	40	35	31	39	34	30	39	34	30	29
10	49	39	32	28	48	38	32	28	38	32	28	37	32	28	36	31	28	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°	38.9	5.0	4.3
10°-20°	104.1	13.5	11.6
20°-30°	140.7	18.2	15.6
30°-40°	150.0	19.4	16.7
40°-50°	141.2	18.3	15.7
50°-60°	109.9	14.2	12.2
60°-70°	54.6	7.1	6.1
70°-80°	22.9	3.0	2.5
80°-90°	9.3	1.2	1.0
90°-100°	1.1	0.1	0.1
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°	283.7	36.7	31.5
0°-40°	433.7	56.1	48.2
0°-60°	684.7	88.6	76.1
0°-90°	771.6	99.9	85.7
90°-120°	1.1	0.1	0.1
90°-150°	1.1	0.1	0.1
90°-180°	1.0	0.1	0.1
0°-180°	772.7	100.0	85.9

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	418	418	418	418	418	
5°	413	413	413	413	413	39
15°	371	371	371	371	371	104
25°	306	306	306	306	306	141
35°	240	240	240	240	240	150
45°	183	183	183	183	183	141
55°	124	124	124	124	124	110
65°	53	53	53	53	53	55
75°	21	21	21	21	21	23
85°	8	8	8	8	8	8
90°	4	4	4	4	4	2
95°	0	0	0	0	0	1
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	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°	418	418	418	418	418	418	418	418	418
2.5°	417	417	417	417	417	417	417	417	417
5°	413	413	413	413	413	413	413	413	413
7.5°	406	406	406	406	406	406	406	406	406
10°	397	397	397	397	397	397	397	397	397
12.5°	385	385	385	385	385	385	385	385	385
15°	371	371	371	371	371	371	371	371	371
17.5°	356	356	356	356	356	356	356	356	356
20°	340	340	340	340	340	340	340	340	340
22.5°	323	323	323	323	323	323	323	323	323
25°	306	306	306	306	306	306	306	306	306
27.5°	289	289	289	289	289	289	289	289	289
30°	272	272	272	272	272	272	272	272	272
32.5°	255	255	255	255	255	255	255	255	255
35°	240	240	240	240	240	240	240	240	240
37.5°	224	224	224	224	224	224	224	224	224
40°	210	210	210	210	210	210	210	210	210
42.5°	196	196	196	196	196	196	196	196	196
45°	183	183	183	183	183	183	183	183	183
47.5°	170	170	170	170	170	170	170	170	170
50°	156	156	156	156	156	156	156	156	156
52.5°	141	141	141	141	141	141	141	141	141
55°	124	124	124	124	124	124	124	124	124
57.5°	106	106	106	106	106	106	106	106	106
60°	87	87	87	87	87	87	87	87	87
62.5°	68	68	68	68	68	68	68	68	68
65°	53	53	53	53	53	53	53	53	53
67.5°	41	41	41	41	41	41	41	41	41
70°	32	32	32	32	32	32	32	32	32
72.5°	26	26	26	26	26	26	26	26	26
75°	21	21	21	21	21	21	21	21	21
77.5°	17	17	17	17	17	17	17	17	17
80°	14	14	14	14	14	14	14	14	14
82.5°	11	11	11	11	11	11	11	11	11
85°	8	8	8	8	8	8	8	8	8
87.5°	6	6	6	6	6	6	6	6	6
90°	4	4	4	4	4	4	4	4	4
95°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
135°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)