

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: E395721

Luminaire Tested: **H7-301**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395721
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-301
Description: HALO RECESSED INC - H7 HOUSING, OPEN TRIM
Light Source: 75R30SP, 900 LUMENS
Ballast/Driver: -

Summary

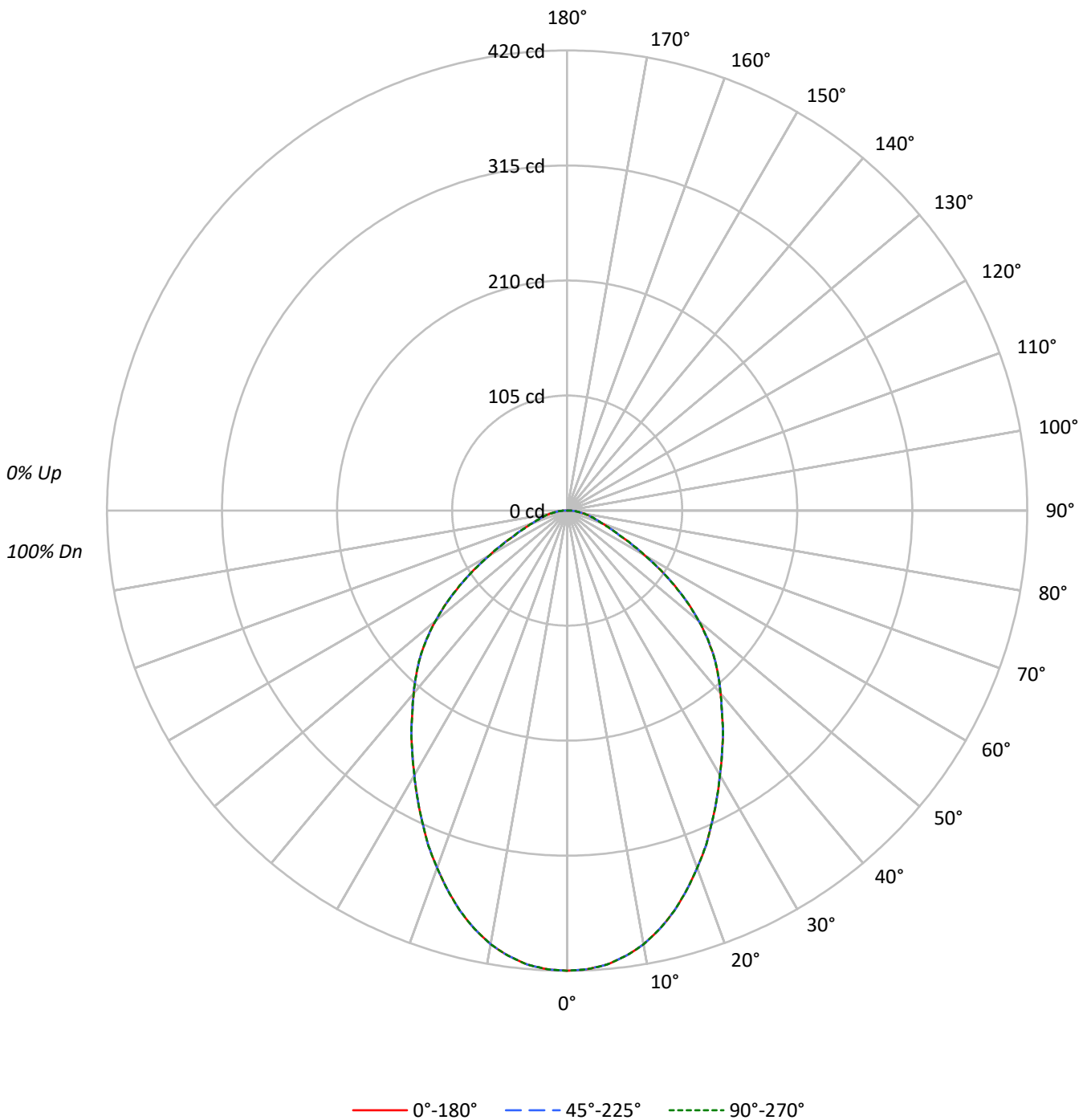
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 785.6 lumens
Efficiency: 87.3%
Efficacy: 10.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.14
Luminous Opening: (L: 0 ' x W: -0.32 ' x H: 0 '
CIE Type: Direct

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	104	104	104	104	101	101	101	101	97	97	97		93	93	93		89	89	89	87
1	96	93	90	87	94	91	88	85	87	85	83		84	82	80		81	79	78	76
2	89	83	78	73	87	81	76	72	78	74	71		75	72	69		73	70	68	66
3	82	74	68	63	80	73	67	62	70	65	61		68	64	60		66	62	59	57
4	76	67	60	55	74	65	59	54	63	58	53		61	57	53		60	55	52	50
5	70	60	53	48	69	59	53	48	58	52	47		56	51	47		54	50	46	45
6	65	55	48	43	64	54	47	42	52	47	42		51	46	42		50	45	41	40
7	61	50	43	38	60	49	43	38	48	42	38		47	42	38		46	41	37	36
8	57	46	39	35	56	46	39	34	44	38	34		43	38	34		42	37	34	32
9	53	43	36	31	52	42	36	31	41	35	31		40	35	31		39	34	31	29
10	50	40	33	29	49	39	33	29	38	33	29		37	32	28		37	32	28	27

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°	39.3	5.0	4.4
10°-20°	106.0	13.5	11.8
20°-30°	144.1	18.3	16.0
30°-40°	155.0	19.7	17.2
40°-50°	145.6	18.5	16.2
50°-60°	106.9	13.6	11.9
60°-70°	53.8	6.8	6.0
70°-80°	25.2	3.2	2.8
80°-90°	9.0	1.1	1.0
90°-100°	0.8	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°	289.3	36.8	32.1
0°-40°	444.2	56.6	49.4
0°-60°	696.8	88.7	77.4
0°-90°	784.7	99.9	87.2
90°-120°	0.8	0.1	0.1
90°-150°	0.8	0.1	0.1
90°-180°	1.0	0.1	0.1
0°-180°	785.6	100.0	87.3

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	420	420	420	420	420	
5°	416	416	416	416	416	39
15°	378	378	378	378	378	106
25°	313	313	313	313	313	144
35°	248	248	248	248	248	155
45°	190	190	190	190	190	146
55°	120	120	120	120	120	107
65°	52	52	52	52	52	54
75°	24	24	24	24	24	25
85°	8	8	8	8	8	8
90°	3	3	3	3	3	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°	420	420	420	420	420	420	420	420	420
2.5°	419	419	419	419	419	419	419	419	419
5°	416	416	416	416	416	416	416	416	416
7.5°	410	410	410	410	410	410	410	410	410
10°	402	402	402	402	402	402	402	402	402
12.5°	391	391	391	391	391	391	391	391	391
15°	378	378	378	378	378	378	378	378	378
17.5°	363	363	363	363	363	363	363	363	363
20°	347	347	347	347	347	347	347	347	347
22.5°	331	331	331	331	331	331	331	331	331
25°	313	313	313	313	313	313	313	313	313
27.5°	296	296	296	296	296	296	296	296	296
30°	279	279	279	279	279	279	279	279	279
32.5°	263	263	263	263	263	263	263	263	263
35°	248	248	248	248	248	248	248	248	248
37.5°	232	232	232	232	232	232	232	232	232
40°	218	218	218	218	218	218	218	218	218
42.5°	204	204	204	204	204	204	204	204	204
45°	190	190	190	190	190	190	190	190	190
47.5°	174	174	174	174	174	174	174	174	174
50°	157	157	157	157	157	157	157	157	157
52.5°	139	139	139	139	139	139	139	139	139
55°	120	120	120	120	120	120	120	120	120
57.5°	101	101	101	101	101	101	101	101	101
60°	82	82	82	82	82	82	82	82	82
62.5°	66	66	66	66	66	66	66	66	66
65°	52	52	52	52	52	52	52	52	52
67.5°	42	42	42	42	42	42	42	42	42
70°	34	34	34	34	34	34	34	34	34
72.5°	28	28	28	28	28	28	28	28	28
75°	24	24	24	24	24	24	24	24	24
77.5°	19	19	19	19	19	19	19	19	19
80°	15	15	15	15	15	15	15	15	15
82.5°	11	11	11	11	11	11	11	11	11
85°	8	8	8	8	8	8	8	8	8
87.5°	5	5	5	5	5	5	5	5	5
90°	3	3	3	3	3	3	3	3	3
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)