

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: H35097

Luminaire Tested: **H7ICT-30PAT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H35097  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7ICT-30PAT  
Description: HALO 7" DIA RECESSED DOWNLIGHT  
SPECULAR REFLECTOR WITH BLACK BAFFLE  
Light Source: 40A19/IF 40 WATTS 495 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

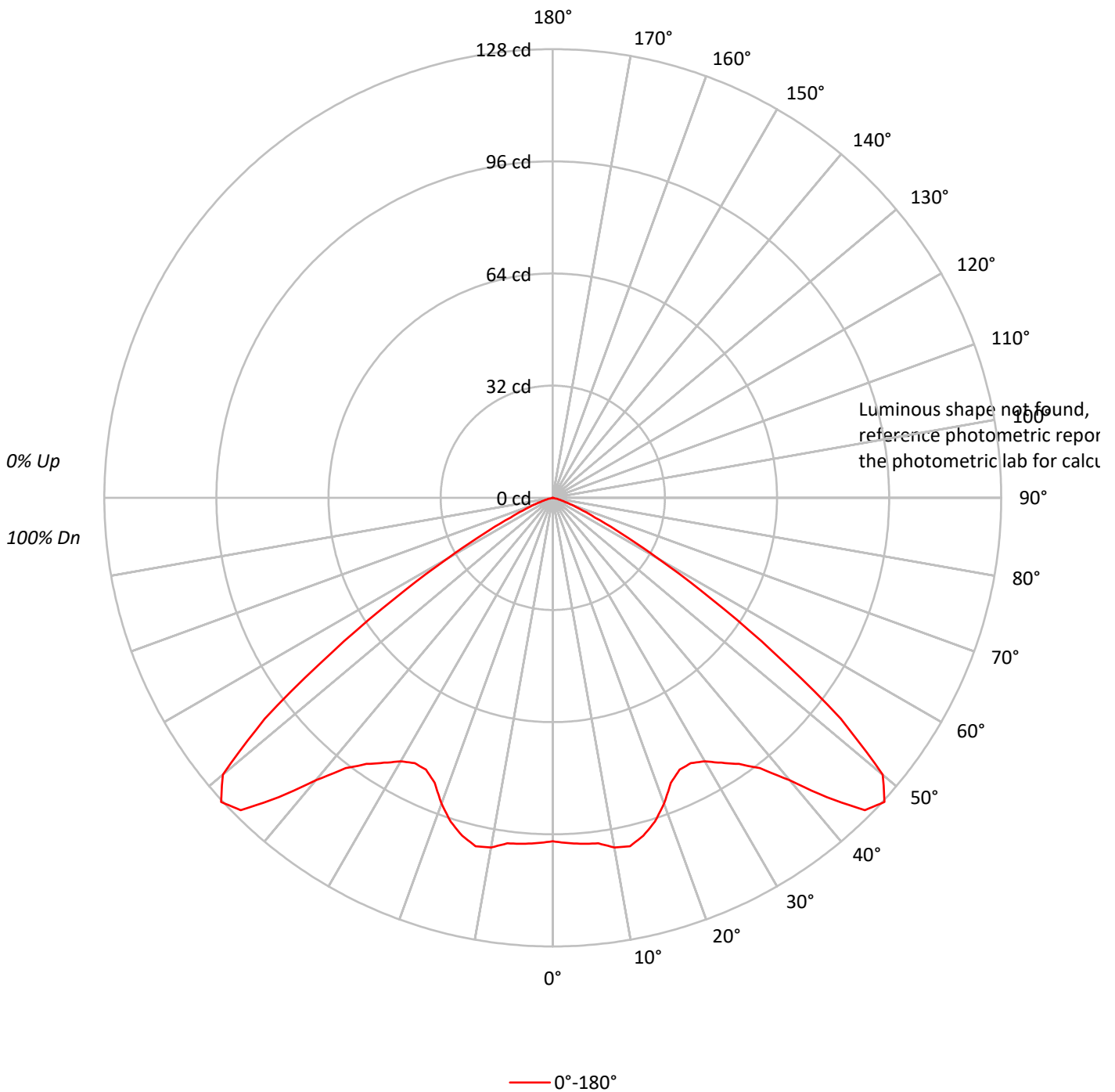
Lumens per Lamp: 495 (1 lamp)  
Luminaire Lumens: 317.9 lumens  
Efficiency: 64.2%  
Efficacy: 7.9 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.82  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 40  
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



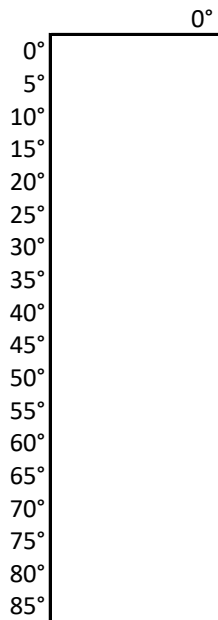


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	76	76	76	76	75	75	75	75	71	71	71		68	68	68		66	66	66	64
1	71	69	66	64	69	67	65	63	64	63	61		62	61	59		60	59	58	56
2	65	61	57	54	64	60	56	53	57	54	52		55	53	51		53	51	50	48
3	60	54	49	45	58	53	48	45	51	47	44		49	46	43		47	45	42	41
4	55	48	42	38	53	47	42	38	45	41	37		44	40	37		42	39	36	35
5	50	42	37	33	49	42	36	33	40	36	32		39	35	32		38	34	32	30
6	46	38	32	28	45	37	32	28	36	31	28		35	31	28		34	30	27	26
7	43	34	28	25	41	33	28	25	33	28	24		32	27	24		31	27	24	23
8	39	31	25	22	38	30	25	22	29	25	21		29	24	21		28	24	21	20
9	37	28	23	19	36	28	23	19	27	22	19		26	22	19		26	22	19	18
10	34	26	21	17	33	25	20	17	25	20	17		24	20	17		23	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.5	3.0	1.9
10°-20°	27.9	8.8	5.6
20°-30°	40.3	12.7	8.1
30°-40°	59.2	18.6	12.0
40°-50°	94.0	29.6	19.0
50°-60°	69.4	21.8	14.0
60°-70°	15.6	4.9	3.1
70°-80°	2.0	0.6	0.4
80°-90°	0.1	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°	77.7	24.4	15.7
0°-40°	136.9	43.1	27.6
0°-60°	300.2	94.4	60.6
0°-90°	317.9	100.0	64.2
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°	317.9	100.0	64.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	98	
5°	99	10
15°	100	28
25°	86	40
35°	93	59
45°	126	94
55°	77	69
65°	13	16
75°	2	2
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	98.0
2.5°	98.6
5°	99.1
7.5°	99.4
10°	101.3
12.5°	101.8
15°	99.8
17.5°	96.9
20°	92.8
22.5°	88.0
25°	85.6
27.5°	85.3
30°	86.8
32.5°	89.6
35°	92.7
37.5°	97.2
40°	105.1
42.5°	115.8
45°	126.0
47.5°	128.4
50°	122.9
52.5°	103.6
55°	76.9
57.5°	53.6
60°	34.8
62.5°	21.9
65°	13.3
67.5°	8.3
70°	5.2
72.5°	3.2
75°	1.5
77.5°	0.3
80°	0.2
82.5°	0.1
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)