

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: H35099

Luminaire Tested: **H7T-30PAT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H35099  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7T-30PAT  
Description: HALO 7" DIA RECESSED DOWNLIGHT  
SPECULAR REFLECTOR WITH BLACK BAFFLE  
Light Source: 100A19/IF 100 WATTS 1720 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

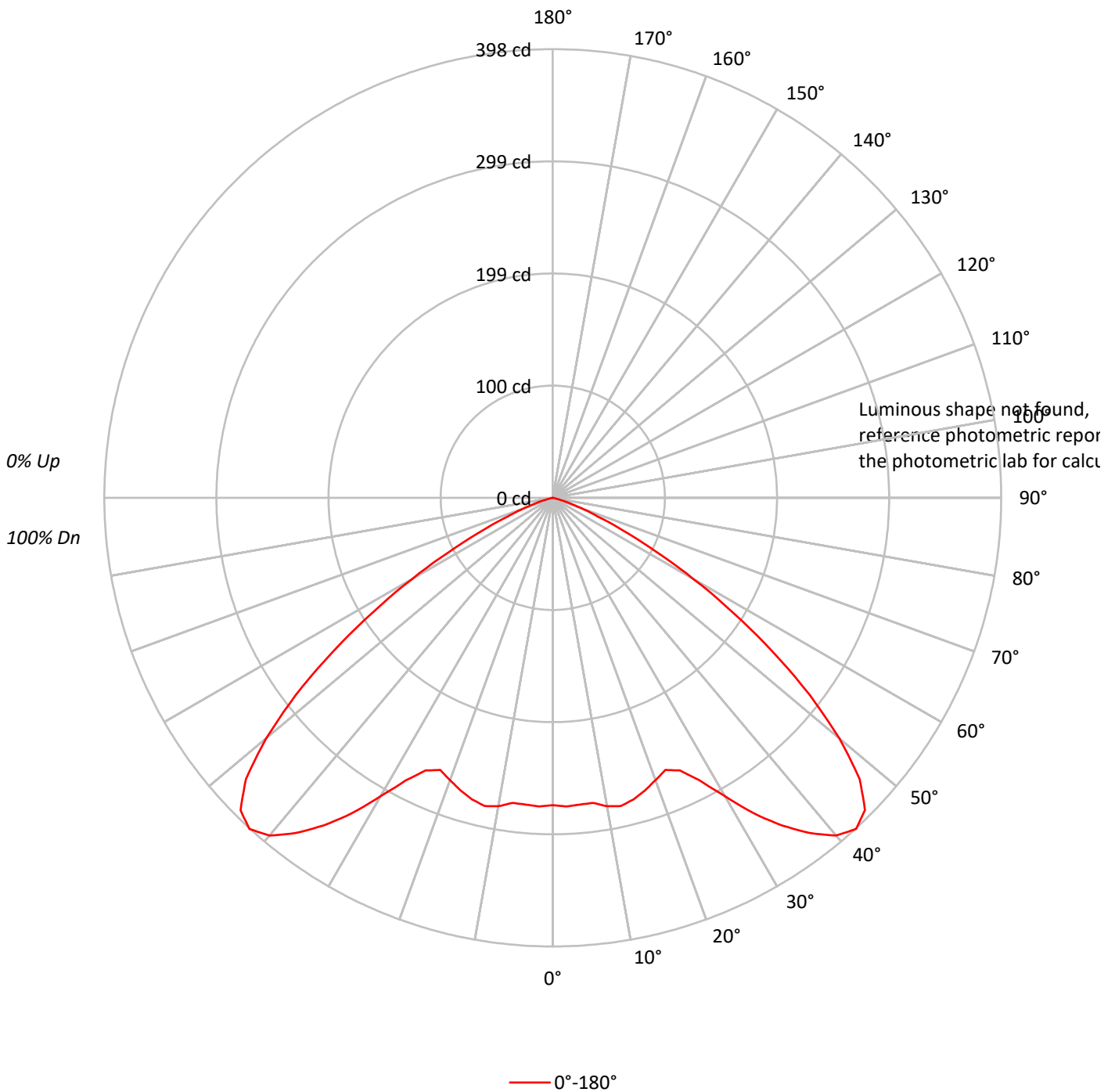
Lumens per Lamp: 1720 (1 lamp)  
Luminaire Lumens: 1043.9 lumens  
Efficiency: 60.7%  
Efficacy: 10.4 lumens/watt  
Spacing Criteria (0/90/45): 2.01 / 2.01 / 1.82  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 100  
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



TEST NUMBER: H35099  
CATALOG NUMBER: H7T-30PAT

### Luminous Intensity Polar Plot



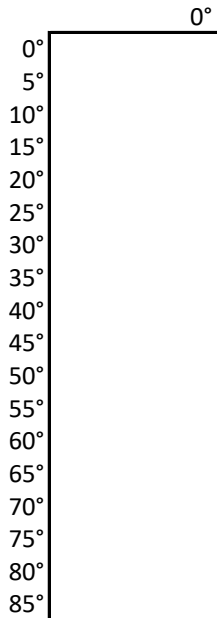


TEST NUMBER: H35099  
 CATALOG NUMBER: H7T-30PAT

**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	72	72	72	72	71	71	71	71	67	67	67	65	65	65	62	62	62	61
1	67	65	62	60	65	63	61	59	61	59	58	58	57	56	56	55	54	53
2	61	57	53	50	60	56	53	50	54	51	48	52	49	47	50	48	46	45
3	56	50	46	42	55	49	45	42	48	44	41	46	43	40	44	42	40	38
4	51	44	39	35	50	44	39	35	42	38	35	41	37	34	39	36	34	33
5	47	39	34	30	46	39	34	30	37	33	30	36	32	29	35	32	29	28
6	43	35	30	26	42	35	30	26	34	29	26	33	28	25	32	28	25	24
7	40	32	26	23	39	31	26	23	30	26	22	29	25	22	28	25	22	21
8	37	29	23	20	36	28	23	20	27	23	20	27	22	19	26	22	19	18
9	34	26	21	17	33	26	21	17	25	20	17	24	20	17	24	20	17	16
10	32	24	19	16	31	23	19	16	23	18	15	22	18	15	22	18	15	14

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





TEST NUMBER: H35099  
 CATALOG NUMBER: H7T-30PAT

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.2	2.5	1.5
10°-20°	77.8	7.5	4.5
20°-30°	127.4	12.2	7.4
30°-40°	222.4	21.3	12.9
40°-50°	293.9	28.2	17.1
50°-60°	212.5	20.4	12.4
60°-70°	74.0	7.1	4.3
70°-80°	9.5	0.9	0.6
80°-90°	0.2	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°	231.4	22.2	13.5
0°-40°	453.9	43.5	26.4
0°-60°	960.3	92.0	55.8
0°-90°	1043.9	100.0	60.7
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°	1043.9	100.0	60.7

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	273	
5°	273	26
15°	277	78
25°	267	127
35°	355	222
45°	392	294
55°	239	213
65°	69	74
75°	7	9
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



TEST NUMBER: H35099  
CATALOG NUMBER: H7T-30PAT

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	272.6
2.5°	274.0
5°	273.2
7.5°	272.9
10°	277.8
12.5°	280.0
15°	276.9
17.5°	272.1
20°	266.5
22.5°	261.2
25°	266.8
27.5°	282.5
30°	305.5
32.5°	331.8
35°	354.8
37.5°	374.8
40°	391.1
42.5°	398.4
45°	391.8
47.5°	369.3
50°	332.0
52.5°	287.4
55°	238.9
57.5°	190.1
60°	144.7
62.5°	103.3
65°	69.0
67.5°	43.3
70°	26.3
72.5°	14.9
75°	6.6
77.5°	1.3
80°	0.7
82.5°	0.4
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



TEST NUMBER: H35099  
CATALOG NUMBER: H7T-30PAT

**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)