

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: H35104

Luminaire Tested: **H7UICT-30RGAT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H35104  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H7UICT-30RGAT  
Description: HALO 7" DIA RECESSED DOWNLIGHT  
RESIDENTIAL GOLD REFLECTOR  
Light Source: 100A19/IF 100 WATTS 1720 LUMENS  
A19 INSIDE FROSTED  
Ballast/Driver: -

**Summary**

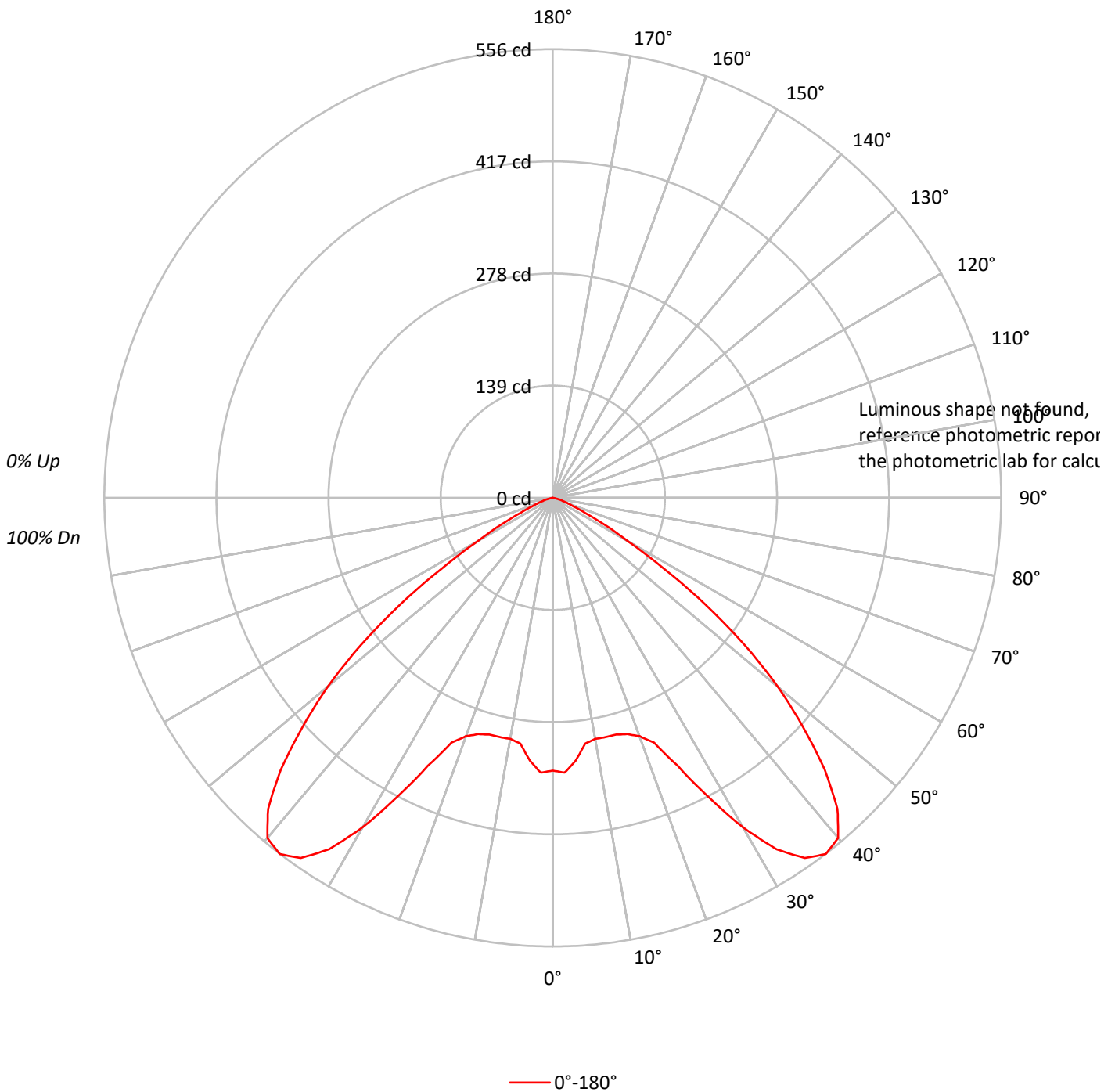
Lumens per Lamp: 1720 (1 lamp)  
Luminaire Lumens: 1257.9 lumens  
Efficiency: 73.1%  
Efficacy: 12.6 lumens/watt  
Spacing Criteria (0/90/45): 2 / 2 / 1.75  
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





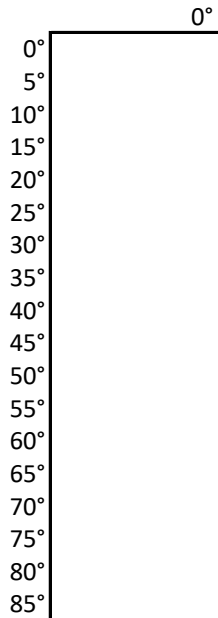
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	87	87	87	87	85	85	85	85	81	81	81		78	78	78		75	75	75	73
1	81	78	76	74	79	77	74	72	74	72	70		71	69	68		68	67	66	65
2	75	70	65	62	73	68	64	61	66	63	60		63	61	58		61	59	57	56
3	69	62	57	52	67	61	56	52	59	54	51		57	53	50		55	52	49	48
4	63	55	49	45	61	54	49	44	52	47	44		51	46	43		49	45	43	41
5	58	49	43	38	56	48	42	38	47	42	38		45	41	37		44	40	37	35
6	53	44	38	33	52	43	37	33	42	37	33		41	36	32		40	35	32	31
7	49	39	33	29	48	39	33	29	38	32	29		37	32	28		36	31	28	27
8	45	36	30	25	44	35	29	25	34	29	25		33	29	25		32	28	25	24
9	42	32	26	22	41	32	26	22	31	26	22		30	26	22		30	25	22	21
10	39	30	24	20	38	29	24	20	28	23	20		28	23	20		27	23	20	18

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.2	2.4	1.8
10°-20°	86.8	6.9	5.0
20°-30°	176.5	14.0	10.3
30°-40°	335.3	26.7	19.5
40°-50°	361.6	28.7	21.0
50°-60°	206.5	16.4	12.0
60°-70°	51.3	4.1	3.0
70°-80°	9.6	0.8	0.6
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°	293.5	23.3	17.1
0°-40°	628.8	50.0	36.6
0°-60°	1196.8	95.1	69.6
0°-90°	1257.9	100.0	73.1
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°	1257.9	100.0	73.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	338	
5°	327	30
15°	304	87
25°	367	176
35°	545	335
45°	477	362
55°	232	207
65°	44	51
75°	9	10
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°	338.0
2.5°	340.9
5°	326.8
7.5°	307.1
10°	303.3
12.5°	303.8
15°	303.7
17.5°	307.1
20°	314.3
22.5°	328.3
25°	366.6
27.5°	417.9
30°	471.5
32.5°	516.4
35°	544.9
37.5°	556.3
40°	550.3
42.5°	522.4
45°	476.9
47.5°	421.2
50°	364.5
52.5°	300.4
55°	231.6
57.5°	162.9
60°	107.5
62.5°	73.4
65°	44.0
67.5°	28.1
70°	19.2
72.5°	13.0
75°	8.7
77.5°	5.2
80°	0.4
82.5°	0.2
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)