

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: H35103

Luminaire Tested: **H7ICT-30RGAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H35103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7ICT-30RGAT
Description: HALO 7" DIA RECESSED DOWNLIGHT
RESIDENTIAL GOLD REFLECTOR
Light Source: 60A19/IF 60 WATTS 860 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

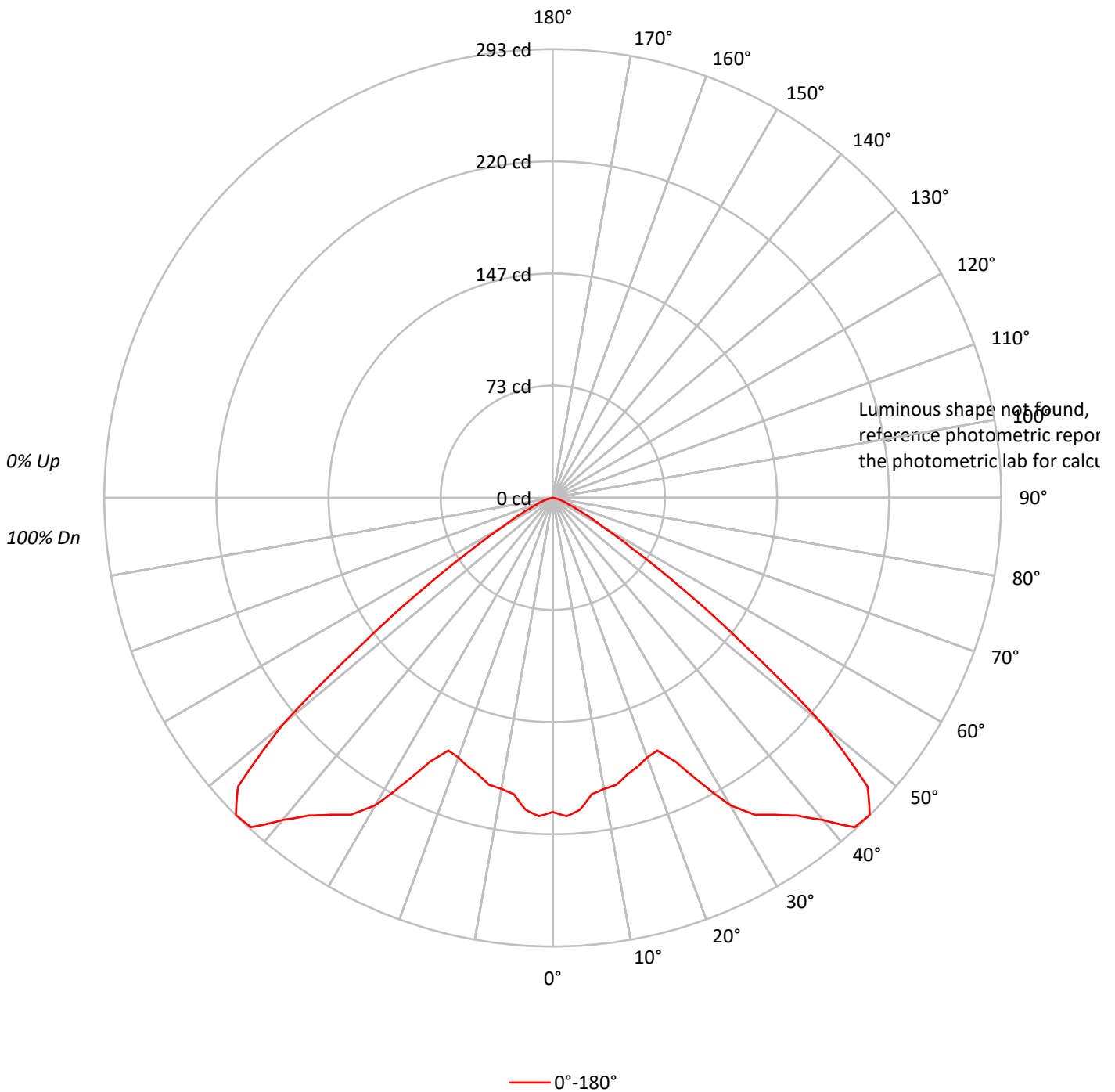
Lumens per Lamp: 860 (1 lamp)
Luminaire Lumens: 662.3 lumens
Efficiency: 77.0%
Efficacy: 11.0 lumens/watt
Spacing Criteria (0/90/45): 2.01 / 2.01 / 1.74
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 60
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: H35103
CATALOG NUMBER: H7ICT-30RGAT

Luminous Intensity Polar Plot





TEST NUMBER: H35103
 CATALOG NUMBER: H7ICT-30RGAT

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	92	92	92	92	90	90	90	90	86	86	86		82	82	82		79	79	79	77
1	86	83	80	78	84	81	79	76	78	76	74		75	73	72		72	71	70	68
2	79	74	69	66	77	72	68	65	70	66	63		67	64	62		65	63	61	59
3	73	66	60	56	71	64	59	55	62	58	54		60	56	53		58	55	52	51
4	67	58	52	48	65	57	52	47	56	51	47		54	50	46		52	49	46	44
5	61	52	46	41	60	51	45	41	50	44	40		48	44	40		47	43	40	38
6	56	47	40	36	55	46	40	36	45	39	35		43	39	35		42	38	35	33
7	52	42	36	31	51	42	35	31	40	35	31		39	34	31		38	34	30	29
8	48	38	32	27	47	38	32	27	37	31	27		36	31	27		35	30	27	26
9	45	35	29	24	44	34	28	24	33	28	24		33	28	24		32	27	24	23
10	42	32	26	22	41	31	26	22	31	25	22		30	25	22		29	25	21	20

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H35103
 CATALOG NUMBER: H7ICT-30RGAT

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.0	2.9	2.2
10°-20°	52.9	8.0	6.2
20°-30°	91.6	13.8	10.6
30°-40°	159.5	24.1	18.5
40°-50°	215.7	32.6	25.1
50°-60°	100.0	15.1	11.6
60°-70°	19.1	2.9	2.2
70°-80°	4.5	0.7	0.5
80°-90°	0.0	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°	163.5	24.7	19.0
0°-40°	323.0	48.8	37.6
0°-60°	638.7	96.4	74.3
0°-90°	662.3	100.0	77.0
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°	662.3	100.0	77.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	205	
5°	204	19
15°	187	53
25°	190	92
35°	253	160
45°	293	216
55°	101	100
65°	17	19
75°	4	4
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: H35103
CATALOG NUMBER: H7ICT-30RGAT

CANDELA DISTRIBUTION (FULL):

0°	
0°	205.2
2.5°	208.1
5°	204.5
7.5°	195.2
10°	193.0
12.5°	192.0
15°	187.2
17.5°	184.1
20°	180.4
22.5°	178.6
25°	190.2
27.5°	210.0
30°	231.7
32.5°	245.3
35°	252.6
37.5°	261.5
40°	274.7
42.5°	291.8
45°	292.8
47.5°	278.9
50°	230.3
52.5°	156.5
55°	101.4
57.5°	61.3
60°	37.5
62.5°	26.4
65°	16.9
67.5°	11.4
70°	8.5
72.5°	6.1
75°	4.1
77.5°	2.5
80°	0.1
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



TEST NUMBER: H35103
CATALOG NUMBER: H7ICT-30RGAT

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)