

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: H35044

Luminaire Tested: **H7T-30RGAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H35044
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7T-30RGAT
Description: HALO 7" DIA RECESSED DOWNLIGHT
RESIDENTIAL GOLD REFLECTOR
Light Source: 150A21 150 WATTS 2850 LUMENS
A21 INSIDE FROSTED
Ballast/Driver: -

Summary

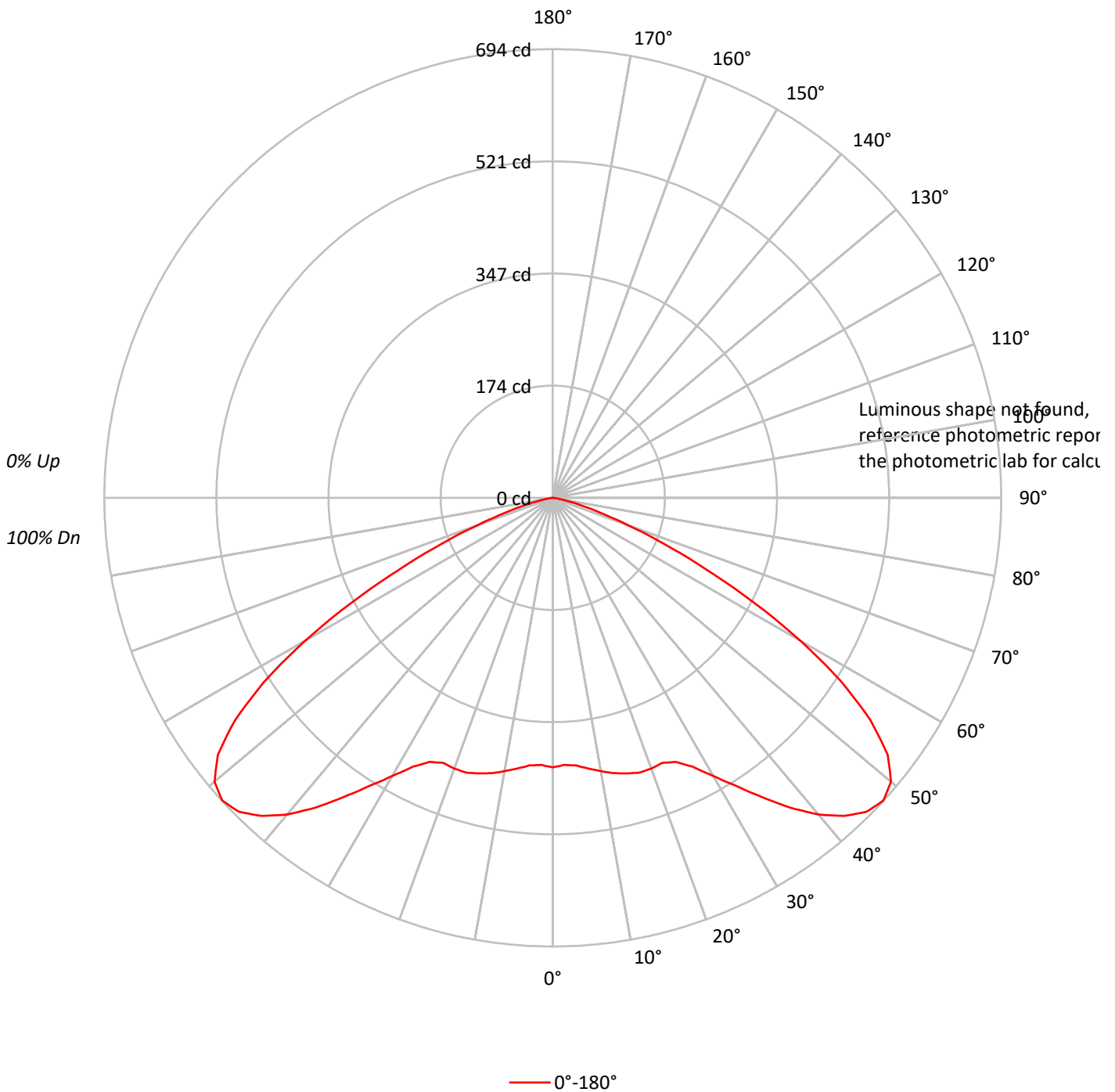
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2110.7 lumens
Efficiency: 74.1%
Efficacy: 14.1 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 2.21 / 2.07
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): 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	88	88	88	88	86	86	86	86	82	82	82		79	79	79		76	76	76	74
1	81	78	75	72	79	76	73	71	73	71	69		70	68	67		67	66	65	63
2	74	67	63	58	72	66	62	58	63	60	56		61	58	55		59	56	54	52
3	67	59	52	48	65	57	52	47	55	50	46		53	49	45		51	48	45	43
4	60	51	44	39	59	50	44	39	48	43	38		46	42	38		45	41	37	36
5	55	45	38	33	53	44	38	33	42	37	32		41	36	32		40	35	32	30
6	50	40	33	28	49	39	33	28	38	32	27		36	31	27		35	31	27	25
7	46	35	29	24	45	35	28	24	34	28	24		33	27	23		32	27	23	22
8	42	32	25	21	41	31	25	21	30	25	20		29	24	20		29	24	20	19
9	39	29	22	18	38	28	22	18	28	22	18		27	22	18		26	21	18	16
10	37	26	20	16	36	26	20	16	25	20	16		24	19	16		24	19	16	14

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.2	1.9	1.4
10°-20°	125.0	5.9	4.4
20°-30°	213.0	10.1	7.5
30°-40°	357.6	16.9	12.5
40°-50°	525.0	24.9	18.4
50°-60°	524.2	24.8	18.4
60°-70°	266.2	12.6	9.3
70°-80°	56.9	2.7	2.0
80°-90°	2.7	0.1	0.1
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°	378.2	17.9	13.3
0°-40°	735.7	34.9	25.8
0°-60°	1784.9	84.6	62.6
0°-90°	2110.7	100.0	74.1
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°	2110.7	100.0	74.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	417	
5°	416	40
15°	441	125
25°	451	213
35°	565	358
45°	687	525
55°	601	524
65°	261	266
75°	47	57
85°	1	3
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°	417.0
2.5°	413.6
5°	415.6
7.5°	422.4
10°	429.3
12.5°	436.2
15°	441.3
17.5°	445.6
20°	445.6
22.5°	443.6
25°	450.8
27.5°	468.9
30°	496.6
32.5°	528.3
35°	565.1
37.5°	604.0
40°	639.3
42.5°	667.3
45°	686.7
47.5°	693.7
50°	683.2
52.5°	653.3
55°	600.6
57.5°	529.4
60°	443.2
62.5°	350.6
65°	260.7
67.5°	186.3
70°	123.5
72.5°	77.6
75°	47.4
77.5°	24.8
80°	10.4
82.5°	3.7
85°	0.7
87.5°	0.2
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)