

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: H35045

Luminaire Tested: **H7T-30CAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H35045
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7T-30CAT
Description: HALO 7" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
Light Source: 150A21 150 WATTS 2850 LUMENS
A21 INSIDE FROSTED
Ballast/Driver: -

Summary

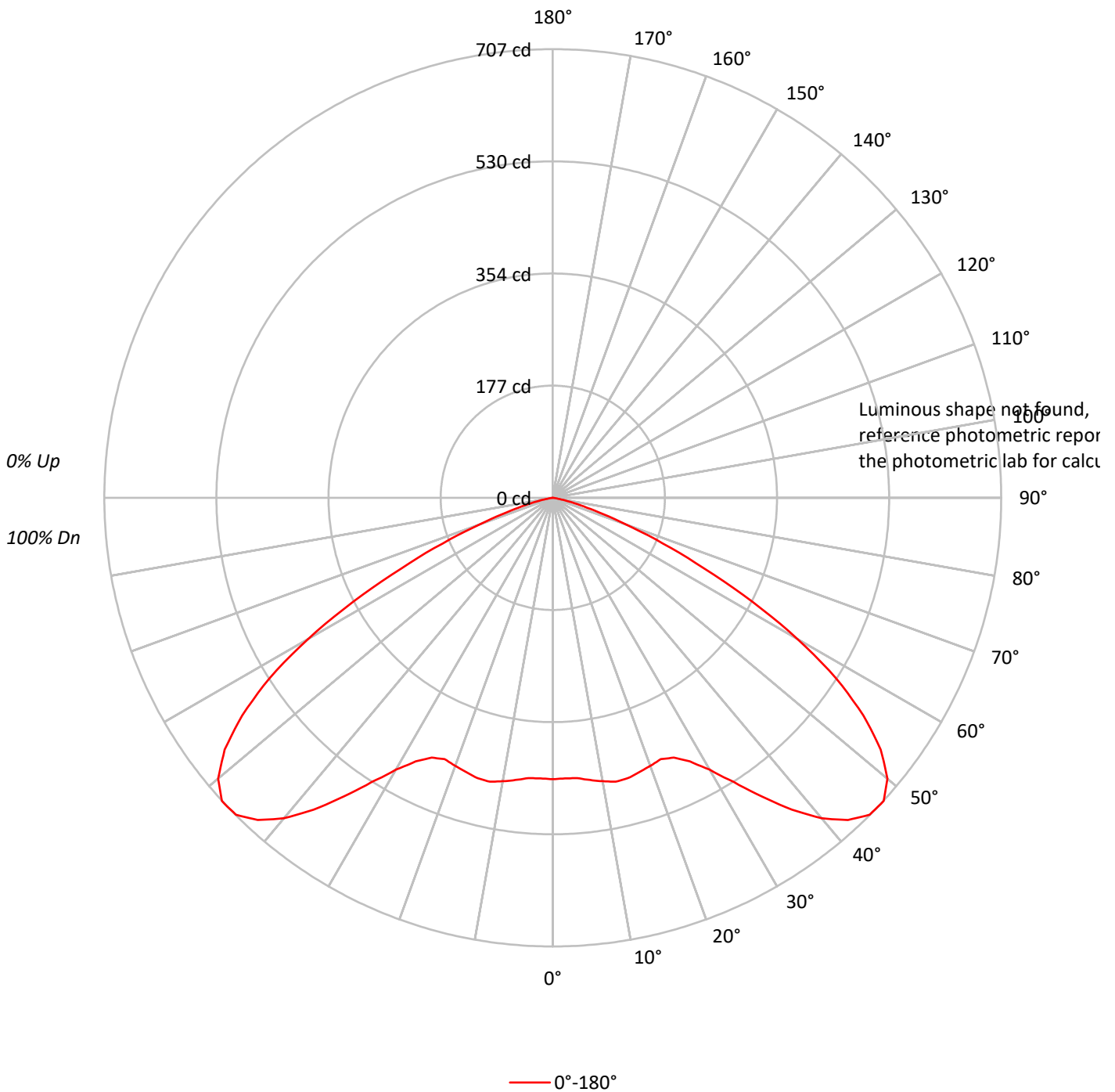
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2135.5 lumens
Efficiency: 74.9%
Efficacy: 14.2 lumens/watt
Spacing Criteria (0/90/45): 2.16 / 2.16 / 2.03
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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



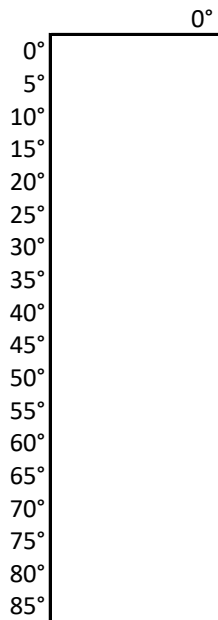


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	89	89	89	89	87	87	87	87	83	83	83		80	80	80		76	76	76	75
1	82	79	76	73	80	77	74	72	74	72	70		71	69	67		68	67	65	64
2	74	68	63	59	72	67	62	58	64	60	57		62	59	56		60	57	55	53
3	67	59	53	48	66	58	52	48	56	51	47		54	50	46		52	48	45	44
4	61	52	45	40	59	51	45	40	49	43	39		47	42	39		46	41	38	36
5	56	46	39	33	54	45	38	33	43	37	33		42	36	32		40	36	32	30
6	51	40	33	28	49	40	33	28	38	32	28		37	32	28		36	31	27	26
7	47	36	29	24	45	35	29	24	34	28	24		33	28	24		32	27	24	22
8	43	32	26	21	42	32	25	21	31	25	21		30	25	21		29	24	21	19
9	40	29	23	19	39	29	23	18	28	22	18		27	22	18		26	22	18	17
10	37	27	21	16	36	26	20	16	26	20	16		25	20	16		24	19	16	15

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	42.7	2.0	1.5
10°-20°	128.9	6.0	4.5
20°-30°	213.2	10.0	7.5
30°-40°	363.6	17.0	12.8
40°-50°	537.8	25.2	18.9
50°-60°	524.5	24.6	18.4
60°-70°	268.5	12.6	9.4
70°-80°	54.3	2.5	1.9
80°-90°	1.9	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°	384.9	18.0	13.5
0°-40°	748.4	35.0	26.3
0°-60°	1810.8	84.8	63.5
0°-90°	2135.5	100.0	74.9
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°	2135.5	100.0	74.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	443	
5°	443	43
15°	458	129
25°	452	213
35°	574	364
45°	706	538
55°	598	524
65°	263	269
75°	44	54
85°	0	2
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°	443.4
2.5°	442.4
5°	443.3
7.5°	448.5
10°	453.5
12.5°	458.2
15°	457.5
17.5°	453.3
20°	449.6
22.5°	445.6
25°	451.7
27.5°	468.0
30°	494.7
32.5°	531.0
35°	574.4
37.5°	619.5
40°	659.0
42.5°	688.7
45°	706.3
47.5°	707.3
50°	688.7
52.5°	651.8
55°	598.0
57.5°	530.2
60°	446.6
62.5°	354.8
65°	263.1
67.5°	188.3
70°	121.8
72.5°	75.2
75°	44.3
77.5°	22.1
80°	8.7
82.5°	2.8
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)