

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: 267p127

Luminaire Tested: **H270ICAT-13TTT-370W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p127  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H270ICAT-13TTT-370W  
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 13CF WITH REGRESSED  
ALBALITE LENS, WHITE BAFFLE  
Light Source: ONE - F13TBX/SPX27/4P - 900 LUMENS - 13 WATTS  
Ballast/Driver: CBT113L-120B

**Summary**

Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 302.5 lumens  
Efficiency: 33.6%  
Efficacy: 21.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

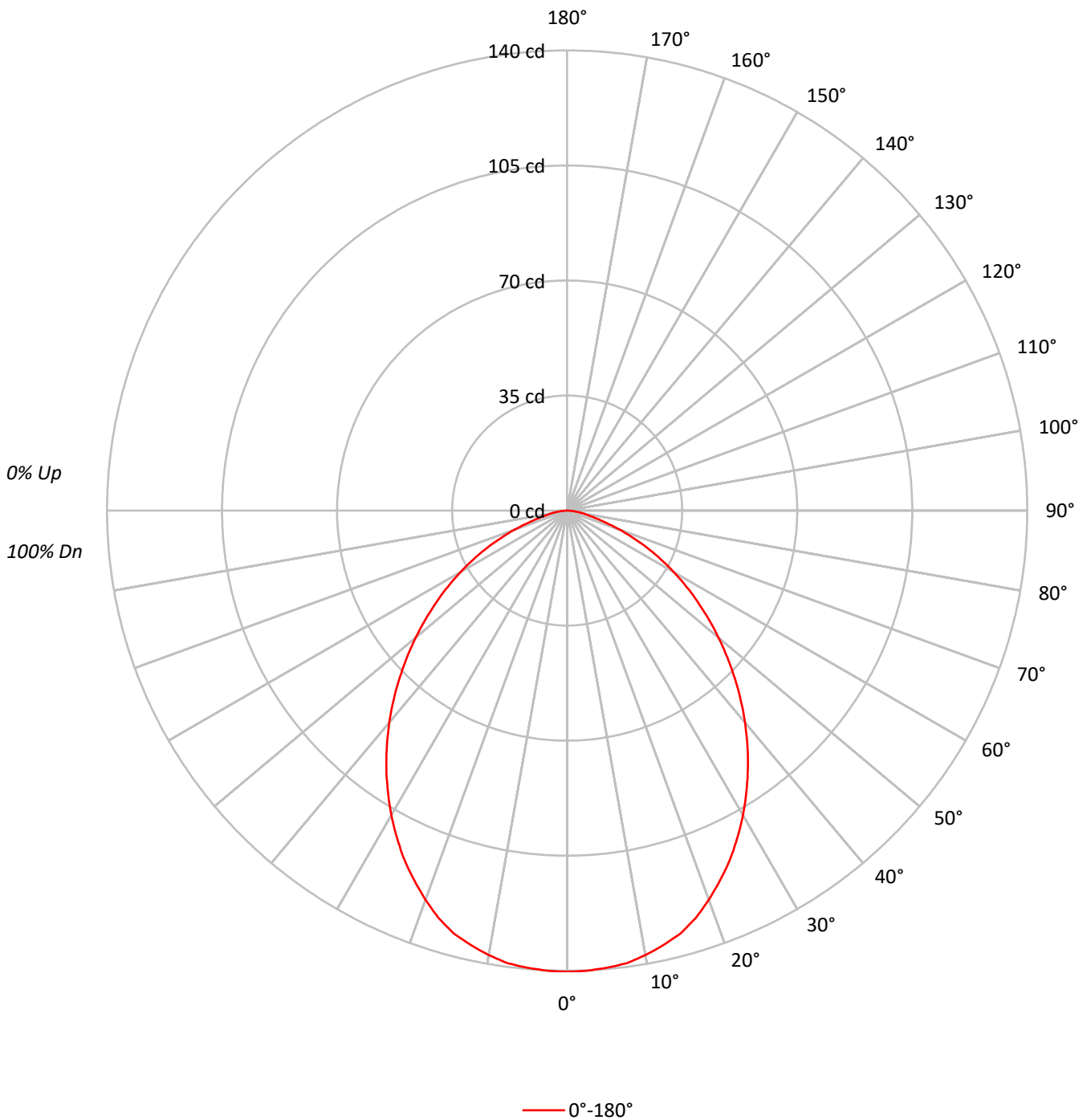
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	40	40	40	40	39	39	39	39	37	37	37	36	36	36	34	34	34	34
1	37	36	34	33	36	35	34	33	34	33	32	32	32	31	31	30	30	29
2	34	32	30	28	33	31	29	28	30	28	27	29	28	26	28	27	26	25
3	31	28	26	24	31	28	25	24	27	25	23	26	24	23	25	24	22	22
4	29	25	23	21	28	25	22	20	24	22	20	23	21	20	23	21	20	19
5	27	23	20	18	26	22	20	18	22	19	18	21	19	17	20	19	17	17
6	25	21	18	16	24	20	18	16	20	17	16	19	17	16	19	17	15	15
7	23	19	16	14	23	19	16	14	18	16	14	18	15	14	17	15	14	13
8	22	17	15	13	21	17	14	13	17	14	13	16	14	13	16	14	12	12
9	20	16	13	12	20	16	13	12	15	13	11	15	13	11	15	13	11	11
10	19	15	12	11	19	15	12	11	14	12	10	14	12	10	14	12	10	10

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

	0°
0°	9153
5°	9142
10°	9096
15°	8997
20°	8748
25°	8437
30°	8061
35°	7638
40°	7171
45°	6652
50°	6100
55°	5517
60°	4893
65°	4153
70°	3243
75°	2269
80°	1766
85°	1273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.3	4.4	1.5
10°-20°	37.4	12.4	4.2
20°-30°	53.9	17.8	6.0
30°-40°	59.9	19.8	6.7
40°-50°	55.6	18.4	6.2
50°-60°	43.4	14.4	4.8
60°-70°	26.7	8.8	3.0
70°-80°	10.2	3.4	1.1
80°-90°	2.1	0.7	0.2
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°	104.5	34.6	11.6
0°-40°	164.4	54.4	18.3
0°-60°	263.5	87.1	29.3
0°-90°	302.5	100.0	33.6
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°	302.5	100.0	33.6

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	140	
5°	140	13
15°	133	37
25°	117	54
35°	96	60
45°	72	56
55°	48	43
65°	27	27
75°	9	10
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	140.3
2.5°	140.1
5°	139.6
7.5°	138.9
10°	137.3
12.5°	135.4
15°	133.2
17.5°	130.0
20°	126.0
22.5°	121.7
25°	117.2
27.5°	112.2
30°	107.0
32.5°	101.5
35°	95.9
37.5°	90.1
40°	84.2
42.5°	78.2
45°	72.1
47.5°	66.1
50°	60.1
52.5°	54.2
55°	48.5
57.5°	43.0
60°	37.5
62.5°	32.1
65°	26.9
67.5°	21.8
70°	17.0
72.5°	12.7
75°	9.0
77.5°	6.3
80°	4.7
82.5°	3.1
85°	1.7
87.5°	0.6
90°	0.0

(END OF REPORT)