

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: H22550

Luminaire Tested: **H271ICAT-406 WB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H22550  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H271ICAT-406 WB  
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT  
WITH SELF FLANGED TRIM AND SOCKET BRACKET AS LOW AS TRIM WILL ALLOW  
LAMP TIP 2.5 INCHES FROM REFLECTOR OPENING  
Light Source: 4 PIN tTT COMPACT FLUORESCENT LAMP  
CF18DT/E/IN/827 18 WAT  
Ballast/Driver: -

**Summary**

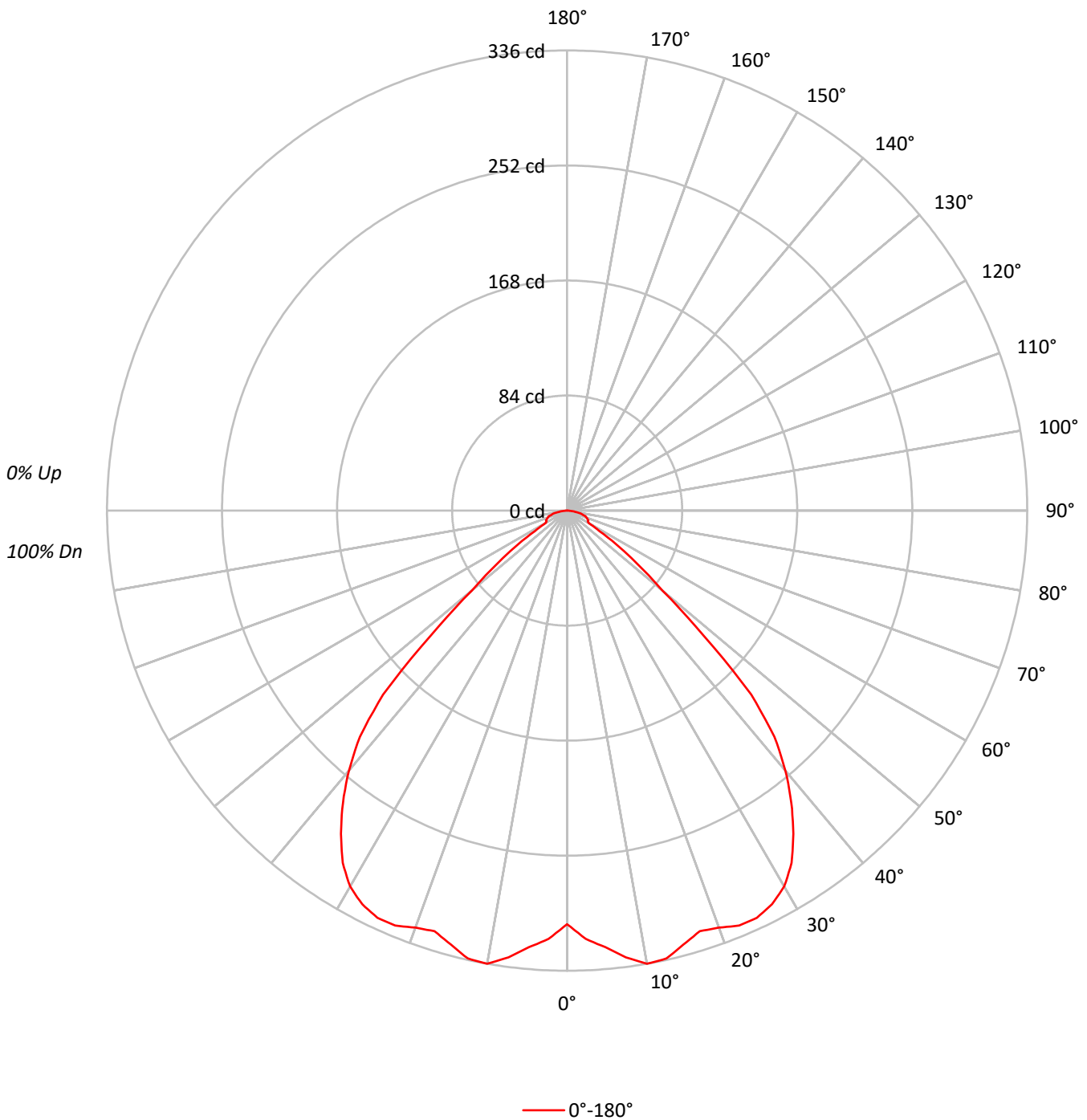
Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 665.9 lumens  
Efficiency: 55.5%  
Efficacy: 35.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.37  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	55
1	62	60	58	57	61	59	57	56	56	55	54	54	53	52	52	52	51	50
2	58	54	51	49	56	53	51	48	51	49	47	50	48	46	48	47	45	44
3	54	49	46	43	53	48	45	42	47	44	42	45	43	41	44	42	40	39
4	50	45	41	38	49	44	40	37	43	40	37	41	39	37	40	38	36	35
5	47	41	37	34	46	40	36	33	39	36	33	38	35	33	37	34	32	31
6	43	37	33	30	43	37	33	30	36	32	30	35	32	29	34	31	29	28
7	41	34	30	27	40	34	30	27	33	29	27	32	29	27	32	29	26	25
8	38	31	27	24	37	31	27	24	30	27	24	30	27	24	29	26	24	23
9	36	29	25	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21
10	34	27	23	20	33	27	23	20	26	23	20	26	22	20	25	22	20	19

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

	0°
0°	18027
5°	19174
10°	20365
15°	20269
20°	20581
25°	21603
30°	21849
35°	20986
40°	19324
45°	16039
50°	8450
55°	4891
60°	2149
65°	2401
70°	2618
75°	2768
80°	2406
85°	1370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.1	4.7	2.6
10°-20°	92.9	14.0	7.7
20°-30°	150.4	22.6	12.5
30°-40°	178.9	26.9	14.9
40°-50°	137.4	20.6	11.4
50°-60°	43.2	6.5	3.6
60°-70°	16.5	2.5	1.4
70°-80°	12.4	1.9	1.0
80°-90°	3.1	0.5	0.3
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°	274.4	41.2	22.9
0°-40°	453.3	68.1	37.8
0°-60°	633.9	95.2	52.8
0°-90°	665.9	100.0	55.5
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°	665.9	100.0	55.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	302	
5°	320	31
15°	328	93
25°	328	150
35°	288	179
45°	190	137
55°	47	43
65°	17	16
75°	12	12
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	302
2.5°	313
5°	320
7.5°	329
10°	336
12.5°	335
15°	328
17.5°	322
20°	324
22.5°	328
25°	328
27.5°	324
30°	317
32.5°	305
35°	288
37.5°	269
40°	248
42.5°	224
45°	190
47.5°	135
50°	91
52.5°	66
55°	47
57.5°	28
60°	18
62.5°	17
65°	17
67.5°	16
70°	15
72.5°	14
75°	12
77.5°	10
80°	7
82.5°	5
85°	2
87.5°	1
90°	0

(END OF REPORT)