

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: H22556

Luminaire Tested: **H272ICAT-406 WB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H22556  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H272ICAT-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 INCHES FROM REFLECTOR OPENING.  
Light Source: 4 PIN TTT COMPACT FLUORESCENT LAMP  
CF26DT/E/IN/827 26 WATTS  
Ballast/Driver: -

**Summary**

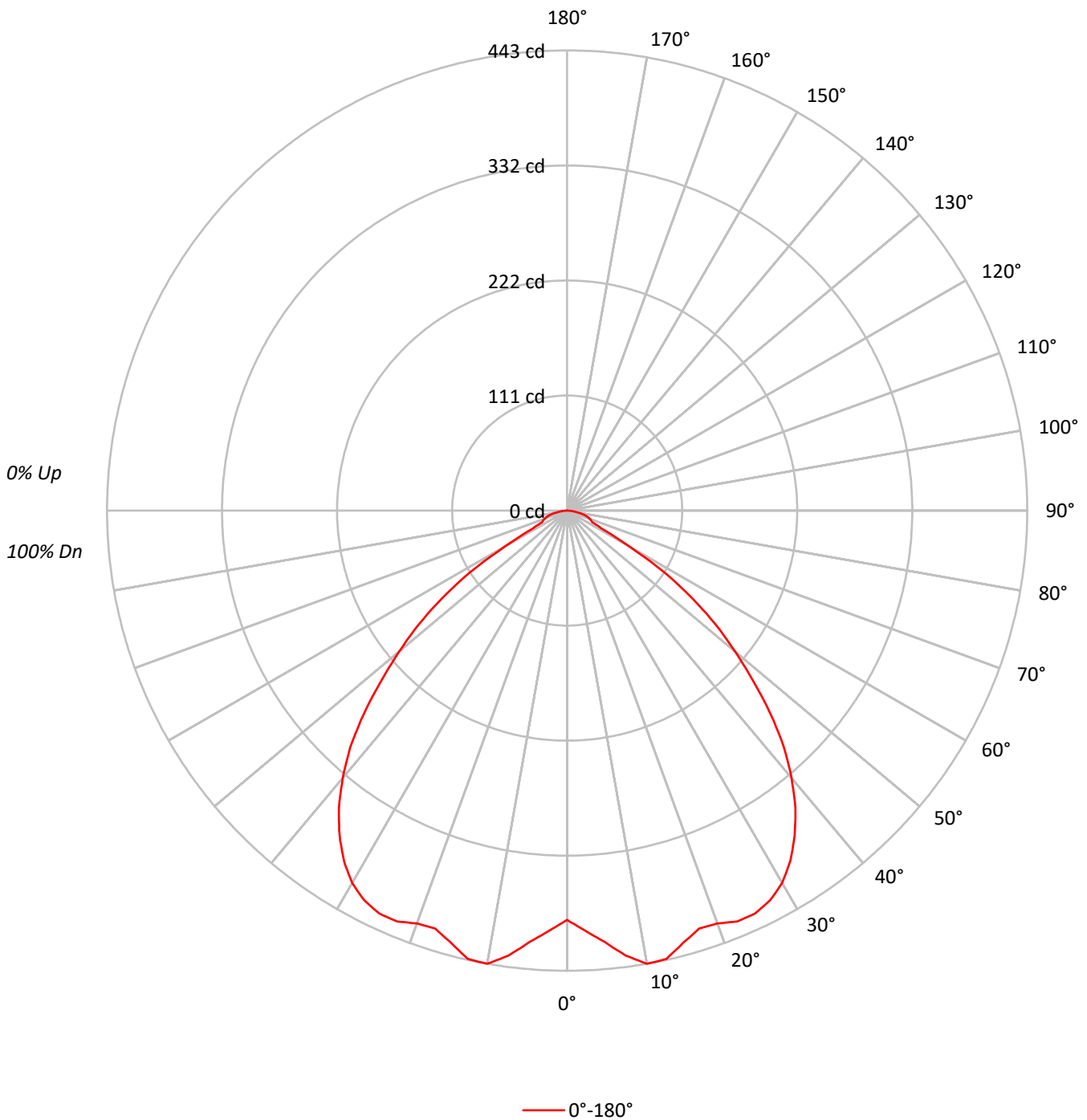
Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 993.2 lumens  
Efficiency: 55.2%  
Efficacy: 38.2 lumens/watt  
Spacing Criteria (0/90/45): 1.46 / 1.46 / 1.41  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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	64	64	64	64	61	61	61		59	59	59		56	56	56	55
1	61	59	57	56	60	58	56	55	56	54	53		54	53	52		52	51	50	49
2	57	53	50	48	56	52	49	47	50	48	46		49	47	45		47	45	44	43
3	53	48	44	41	51	47	43	41	45	42	40		44	41	39		43	40	39	38
4	49	43	39	36	48	42	38	35	41	38	35		40	37	35		39	36	34	33
5	45	39	35	31	44	38	34	31	37	34	31		36	33	31		35	33	30	29
6	42	35	31	28	41	35	31	28	34	30	27		33	30	27		32	29	27	26
7	39	32	28	25	38	32	28	25	31	27	25		30	27	24		30	27	24	23
8	36	30	25	22	36	29	25	22	29	25	22		28	25	22		27	24	22	21
9	34	27	23	20	33	27	23	20	26	23	20		26	22	20		25	22	20	19
10	32	25	21	18	31	25	21	18	24	21	18		24	21	18		23	20	18	17

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

	0°
0°	23518
5°	24986
10°	26851
15°	26634
20°	26870
25°	28189
30°	28535
35°	27836
40°	26181
45°	23383
50°	19594
55°	15298
60°	8118
65°	3813
70°	4014
75°	4151
80°	3437
85°	2739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.7	4.1	2.3
10°-20°	122.1	12.3	6.8
20°-30°	196.3	19.8	10.9
30°-40°	237.4	23.9	13.2
40°-50°	212.1	21.4	11.8
50°-60°	128.6	12.9	7.1
60°-70°	33.1	3.3	1.8
70°-80°	18.3	1.8	1.0
80°-90°	4.6	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°	359.0	36.1	19.9
0°-40°	596.5	60.1	33.1
0°-60°	937.1	94.4	52.1
0°-90°	993.2	100.0	55.2
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°	993.2	100.0	55.2

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	394	
5°	417	41
15°	431	122
25°	428	196
35°	382	237
45°	277	212
55°	147	129
65°	27	33
75°	18	18
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	394
2.5°	405
5°	417
7.5°	432
10°	443
12.5°	442
15°	431
17.5°	422
20°	423
22.5°	428
25°	428
27.5°	423
30°	414
32.5°	400
35°	382
37.5°	361
40°	336
42.5°	309
45°	277
47.5°	243
50°	211
52.5°	180
55°	147
57.5°	112
60°	68
62.5°	37
65°	27
67.5°	25
70°	23
72.5°	21
75°	18
77.5°	14
80°	10
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)