

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: H22544

Luminaire Tested: **H270ICAT-406 WB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: H22544  
Test Lab: Peachtree City  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H270ICAT-406 WB  
Description: HALO 6 IN RECESSED FLUORESCENT DOWNLIGHT  
WITH SELF FLANGED TRIM AND SOCKET BRACKET AS LOW AS TRIM WILL ALLOW  
Light Source: 4 PIN TTT COMPACT FLUORESCENT LAMP  
CF13DT/E/827 13 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 900 (1 lamp)  
Luminaire Lumens: 468.4 lumens  
Efficiency: 52.0%  
Efficacy: 33.5 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.28  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

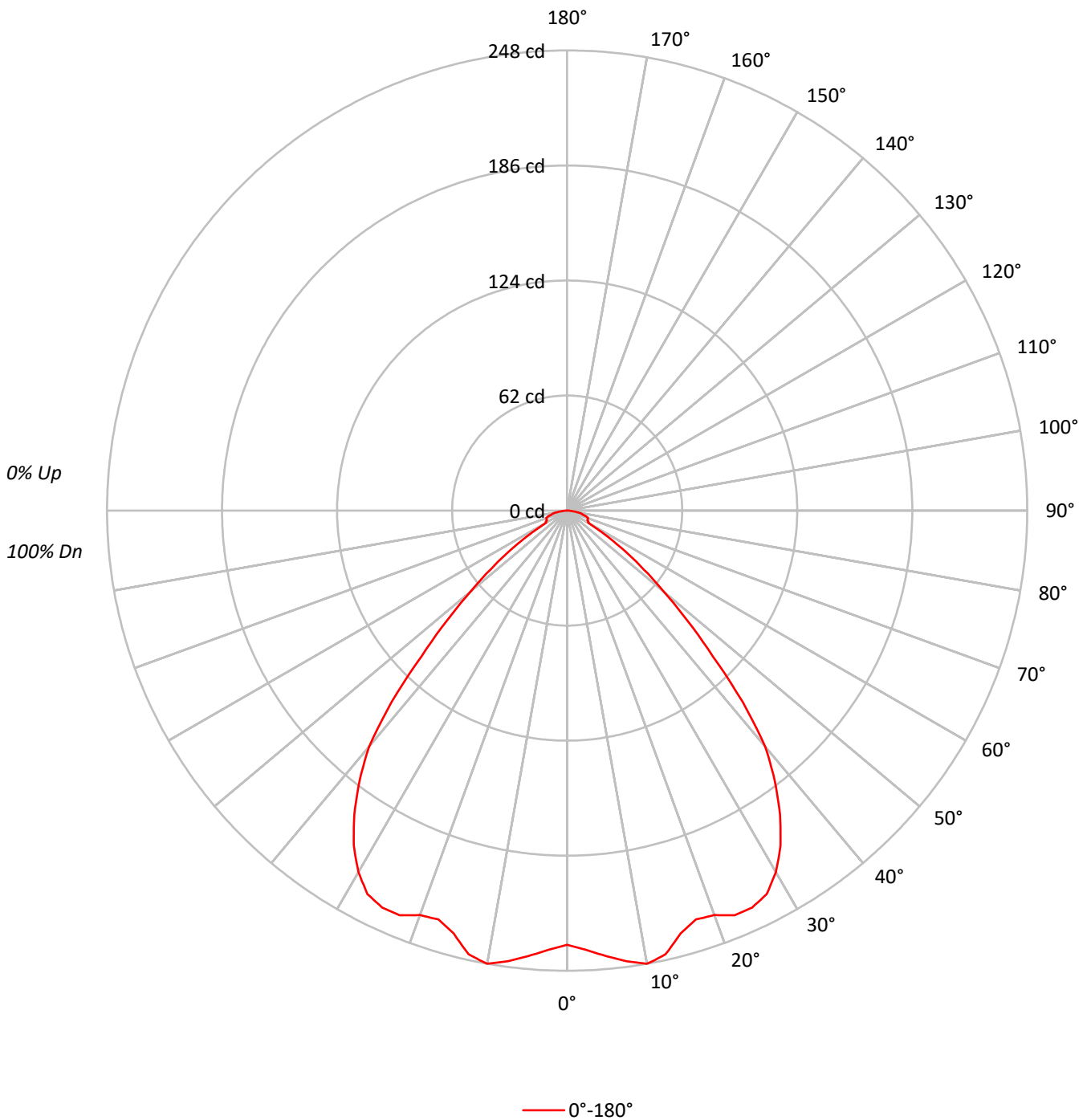
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	62	62	62	61	61	61	61	58	58	58		55	55	55		53	53	53	52
1	58	56	55	53	57	55	54	52	53	52	51		51	50	49		49	48	48	47
2	54	51	48	46	53	50	47	45	48	46	44		47	45	43		45	44	42	41
3	50	46	43	40	49	45	42	40	44	41	39		42	40	38		41	39	38	37
4	47	42	38	35	46	41	38	35	40	37	35		39	36	34		38	36	34	33
5	44	38	34	31	43	38	34	31	37	33	31		36	33	31		35	32	30	29
6	41	35	31	28	40	35	31	28	34	30	28		33	30	28		32	30	27	27
7	38	32	28	25	37	32	28	25	31	28	25		30	27	25		30	27	25	24
8	36	30	26	23	35	29	26	23	29	25	23		28	25	23		27	25	23	22
9	34	27	24	21	33	27	24	21	27	23	21		26	23	21		26	23	21	20
10	32	25	22	19	31	25	22	19	25	21	19		24	21	19		24	21	19	18

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

	0°
0°	13968
5°	14440
10°	15032
15°	14584
20°	14737
25°	15543
30°	15508
35°	14574
40°	12935
45°	9370
50°	6315
55°	3955
60°	1552
65°	1695
70°	2094
75°	2076
80°	2062
85°	1370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.2	5.0	2.6
10°-20°	67.2	14.3	7.5
20°-30°	107.9	23.0	12.0
30°-40°	123.9	26.5	13.8
40°-50°	87.2	18.6	9.7
50°-60°	34.2	7.3	3.8
60°-70°	12.3	2.6	1.4
70°-80°	9.8	2.1	1.1
80°-90°	2.7	0.6	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°	198.3	42.3	22.0
0°-40°	322.2	68.8	35.8
0°-60°	443.6	94.7	49.3
0°-90°	468.4	100.0	52.0
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°	468.4	100.0	52.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	234	
5°	241	23
15°	236	67
25°	236	108
35°	200	124
45°	111	87
55°	38	34
65°	12	12
75°	9	10
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	234
2.5°	237
5°	241
7.5°	245
10°	248
12.5°	245
15°	236
17.5°	231
20°	232
22.5°	236
25°	236
27.5°	233
30°	225
32.5°	214
35°	200
37.5°	184
40°	166
42.5°	140
45°	111
47.5°	88
50°	68
52.5°	52
55°	38
57.5°	24
60°	13
62.5°	13
65°	12
67.5°	12
70°	12
72.5°	11
75°	9
77.5°	8
80°	6
82.5°	4
85°	2
87.5°	1
90°	0

(END OF REPORT)