

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: 267p150

Luminaire Tested: **H471ICAT-18CF-999P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p150  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H4711CAT-18CF-999P  
Description: 4" OPEN RECESSED WITH SPECULAR CONE REFLECTOR AND WHITE TRIM RING  
Light Source: ONE COMPACT FLUORESCENT TRIPLE TUBE LAMP  
F18TBX/SPX27 18 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 648.4 lumens  
Efficiency: 54.0%  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 2.01 / 2.01 / 1.87  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

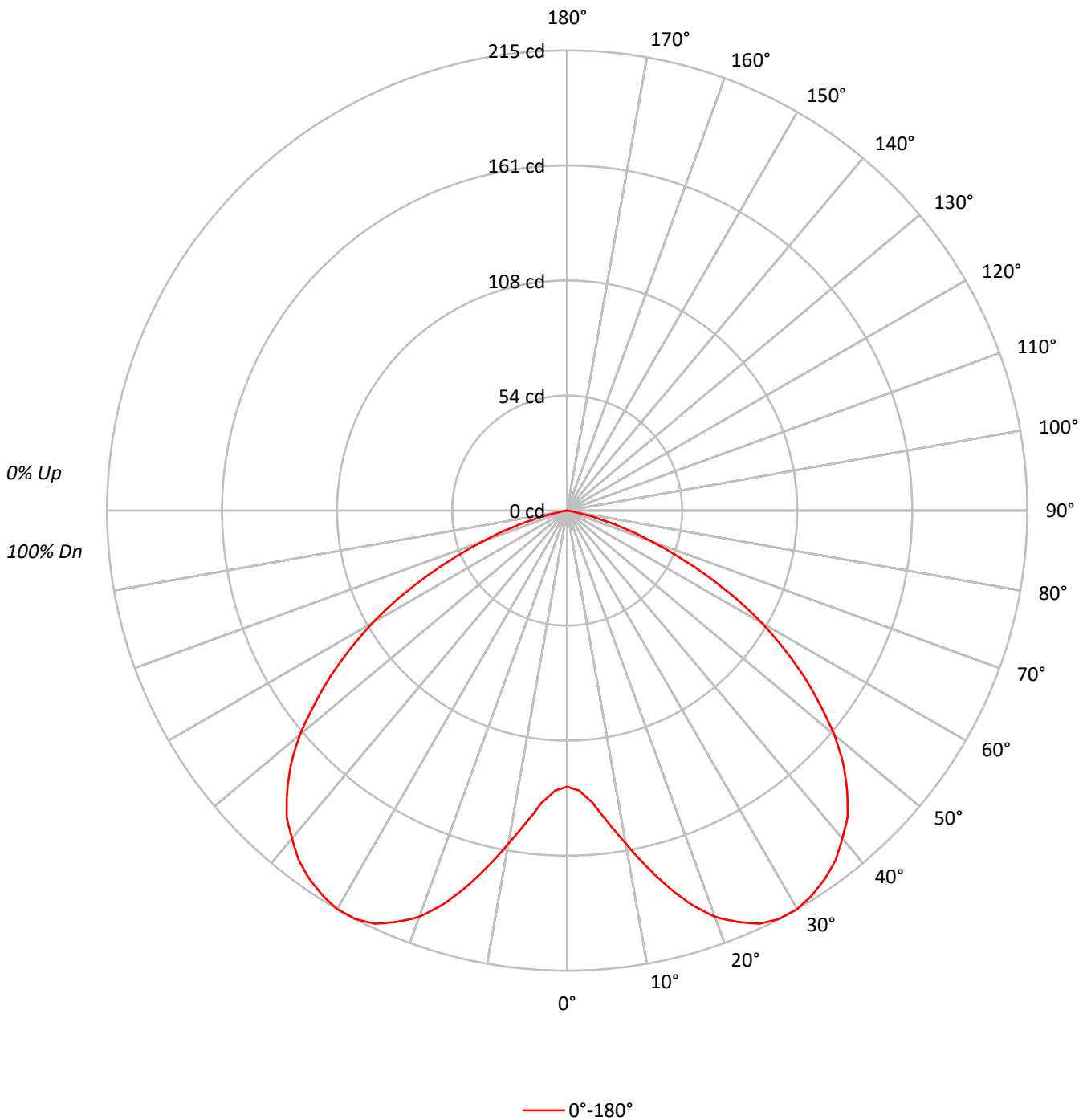
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	64	64	64	64	63	63	63	63	60	60	60		57	57	57		55	55	55	54
1	59	57	55	53	58	56	54	52	54	52	51		52	50	49		50	49	48	47
2	54	50	47	44	53	49	46	43	47	45	42		45	43	41		44	42	40	39
3	49	44	40	36	48	43	39	36	42	38	36		40	37	35		39	36	34	33
4	45	39	34	31	44	38	34	31	37	33	30		36	32	30		34	32	29	28
5	41	35	30	26	40	34	29	26	33	29	26		32	28	26		31	28	25	24
6	38	31	26	23	37	30	26	23	29	25	22		29	25	22		28	25	22	21
7	35	28	23	20	34	27	23	20	27	23	20		26	22	19		25	22	19	18
8	33	25	21	17	32	25	21	17	24	20	17		24	20	17		23	20	17	16
9	30	23	19	16	30	23	18	16	22	18	15		22	18	15		21	18	15	14
10	28	21	17	14	28	21	17	14	20	16	14		20	16	14		19	16	14	13

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

	0°
0°	15912
5°	16963
10°	19789
15°	23241
20°	26515
25°	28989
30°	30622
35°	31621
40°	32203
45°	32271
50°	31278
55°	29031
60°	25903
65°	21014
70°	15147
75°	8102
80°	710
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.8	2.1	1.1
10°-20°	52.0	8.0	4.3
20°-30°	97.9	15.1	8.2
30°-40°	131.2	20.2	10.9
40°-50°	142.0	21.9	11.8
50°-60°	120.2	18.5	10.0
60°-70°	71.7	11.1	6.0
70°-80°	19.5	3.0	1.6
80°-90°	0.1	0.0	0.0
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°	163.7	25.2	13.6
0°-40°	294.9	45.5	24.6
0°-60°	557.1	85.9	46.4
0°-90°	648.4	100.0	54.0
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°	648.4	100.0	54.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	129	
5°	137	14
15°	182	52
25°	213	98
35°	210	131
45°	185	142
55°	135	120
65°	72	72
75°	17	20
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	129
2.5°	131
5°	137
7.5°	147
10°	158
12.5°	170
15°	182
17.5°	193
20°	202
22.5°	208
25°	213
27.5°	215
30°	215
32.5°	213
35°	210
37.5°	206
40°	200
42.5°	194
45°	185
47.5°	175
50°	163
52.5°	149
55°	135
57.5°	120
60°	105
62.5°	89
65°	72
67.5°	56
70°	42
72.5°	29
75°	17
77.5°	7
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)