

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: 267p115

Luminaire Tested: **H271ICAT-18DTT-470SC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 267p115  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H2711CAT-18DTT-470SC  
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH SPECULAR CONE REFLECTOR  
Light Source: ONE -CF18DD/E/835 - 1250 LUMENS - 18 WATTS  
Ballast/Driver: CBT213L-120B

**Summary**

Lumens per Lamp: 1250 (1 lamp)  
Luminaire Lumens: 732.7 lumens  
Efficiency: 58.6%  
Efficacy: 38.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.24  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

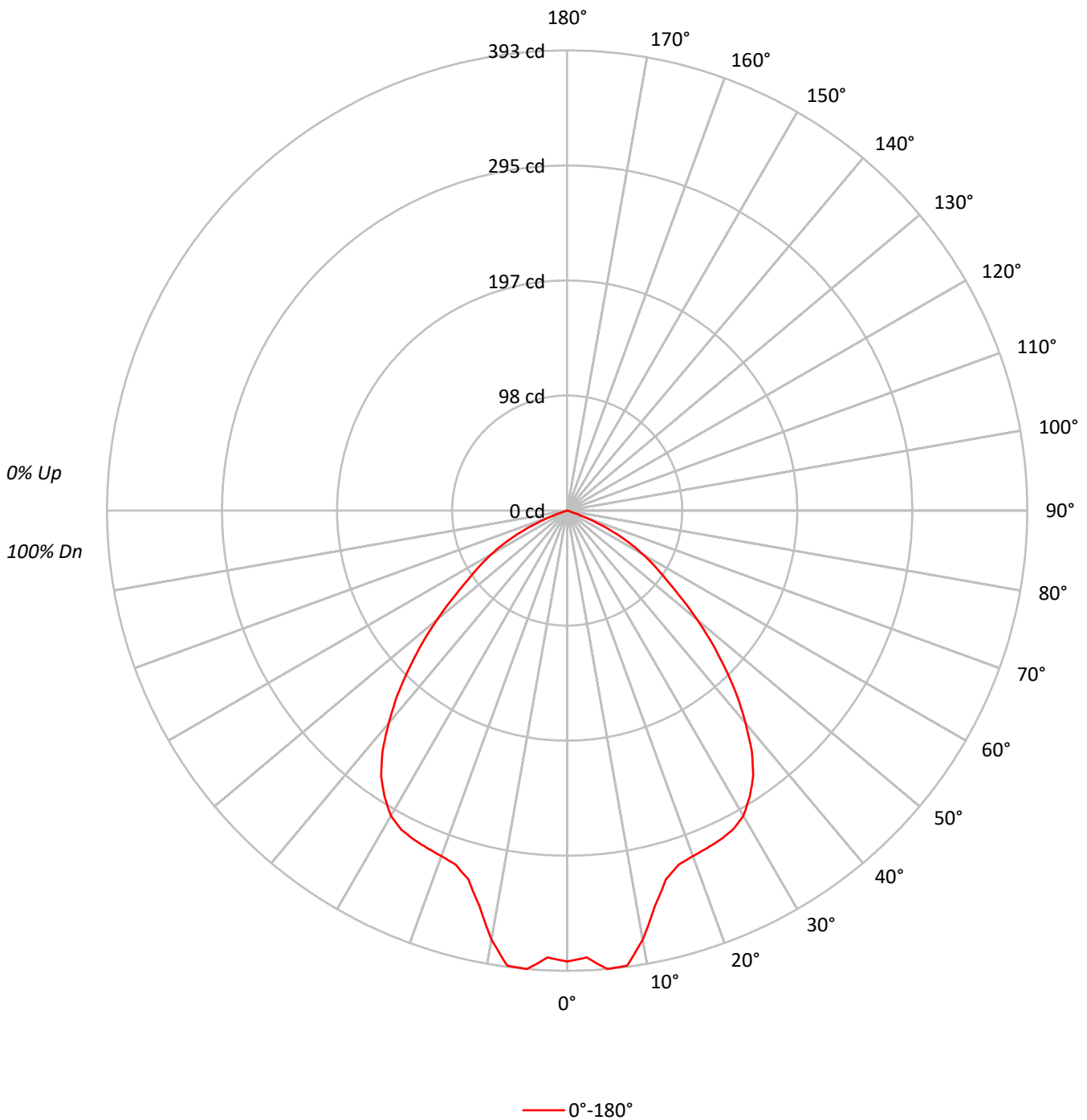
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	70	70	70	70	68	68	68	68	65	65	65		62	62	62		60	60	60	59
1	65	63	61	60	64	62	60	59	60	58	57		57	56	55		55	54	54	52
2	61	57	54	51	59	56	53	50	54	51	49		52	50	48		50	49	47	46
3	56	51	47	44	55	50	46	44	48	45	43		47	44	42		46	43	41	40
4	52	46	42	38	51	45	41	38	44	40	38		43	40	37		41	39	37	35
5	48	42	37	34	47	41	37	34	40	36	33		39	35	33		38	35	33	31
6	45	38	33	30	44	37	33	30	36	32	30		35	32	29		35	31	29	28
7	42	35	30	27	41	34	30	27	33	29	27		33	29	26		32	29	26	25
8	39	32	27	24	38	31	27	24	31	27	24		30	26	24		29	26	24	23
9	37	29	25	22	36	29	25	22	28	24	22		28	24	22		27	24	22	21
10	34	27	23	20	34	27	23	20	26	23	20		26	22	20		25	22	20	19

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

	0°
0°	27567
5°	28247
10°	27047
15°	24166
20°	23926
25°	24491
30°	24886
35°	24212
40°	22152
45°	19341
50°	16152
55°	12983
60°	10740
65°	7624
70°	2512
75°	277
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.9	5.0	3.0
10°-20°	93.6	12.8	7.5
20°-30°	142.9	19.5	11.4
30°-40°	171.2	23.4	13.7
40°-50°	147.1	20.1	11.8
50°-60°	95.0	13.0	7.6
60°-70°	43.4	5.9	3.5
70°-80°	2.6	0.4	0.2
80°-90°	0.0	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°	273.4	37.3	21.9
0°-40°	444.6	60.7	35.6
0°-60°	686.6	93.7	54.9
0°-90°	732.7	100.0	58.6
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°	732.7	100.0	58.6

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	385	
5°	393	37
15°	326	94
25°	310	143
35°	277	171
45°	191	147
55°	104	95
65°	45	43
75°	1	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	385
2.5°	382
5°	393
7.5°	392
10°	372
12.5°	346
15°	326
17.5°	317
20°	314
22.5°	312
25°	310
27.5°	307
30°	301
32.5°	290
35°	277
37.5°	259
40°	237
42.5°	215
45°	191
47.5°	168
50°	145
52.5°	123
55°	104
57.5°	89
60°	75
62.5°	60
65°	45
67.5°	28
70°	12
72.5°	3
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)