

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: 258p111

Luminaire Tested: **H571RICAT-18WCF-ERT513WHT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 258p111  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H571RICAT-18WCF-ERT513WHT  
Description: 5" OPEN RECESSED DOWNLIGHT, 18W CF, HIGH GLOSS APP. WHITE  
TRIM RING AND BAFFLE  
Light Source: ONE - GE - F18TBX/SPX27/4P - 1200 LUMENS - 18 WATTS  
Ballast/Driver: ADVANCE 2518-M1-LS-QS

**Summary**

Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 569.9 lumens  
Efficiency: 47.5%  
Efficacy: 28.5 lumens/watt  
Spacing Criteria (0/90/45): 1.46 / 1.46 / 1.41  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

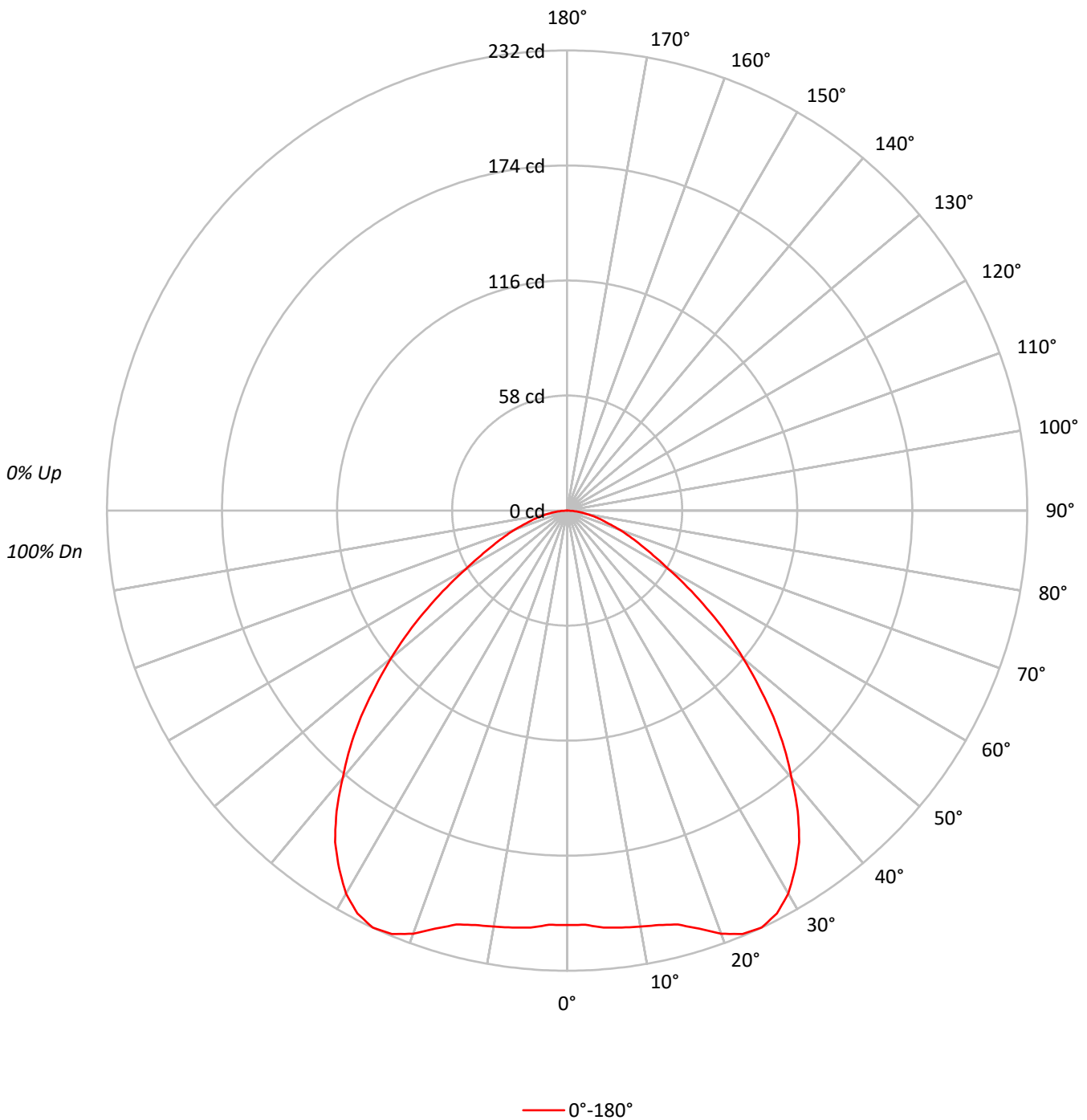
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	14965
5°	15166
10°	15486
15°	16012
20°	17297
25°	18329
30°	18437
35°	17832
40°	16451
45°	14885
50°	12922
55°	10736
60°	8449
65°	6946
70°	5862
75°	4980
80°	4123
85°	3286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.2	3.5	1.7
10°-20°	61.9	10.9	5.2
20°-30°	106.1	18.6	8.8
30°-40°	126.4	22.2	10.5
40°-50°	112.8	19.8	9.4
50°-60°	77.2	13.6	6.4
60°-70°	41.4	7.3	3.4
70°-80°	19.2	3.4	1.6
80°-90°	4.6	0.8	0.4
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°	188.2	33.0	15.7
0°-40°	314.6	55.2	26.2
0°-60°	504.6	88.6	42.1
0°-90°	569.9	100.0	47.5
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°	569.9	100.0	47.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	209	
5°	211	20
15°	216	62
25°	232	106
35°	204	126
45°	147	113
55°	86	77
65°	41	41
75°	18	19
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	209
2.5°	209
5°	211
7.5°	212
10°	213
12.5°	214
15°	216
17.5°	221
20°	227
22.5°	231
25°	232
27.5°	229
30°	223
32.5°	214
35°	204
37.5°	191
40°	176
42.5°	162
45°	147
47.5°	131
50°	116
52.5°	101
55°	86
57.5°	72
60°	59
62.5°	49
65°	41
67.5°	34
70°	28
72.5°	22
75°	18
77.5°	14
80°	10
82.5°	7
85°	4
87.5°	1
90°	0

(END OF REPORT)