

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: 258p110

Luminaire Tested: **H571ICAT-18WCF-5054PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 258p110  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H5711CAT-18WCF-5054PS  
Description: 5" RECESSED DOWNLIGHT, 18W CF, CONE WITH DROP GLASS FROSTED  
LENS, WHITE SPLAY  
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: 639.5 lumens  
Efficiency: 53.3%  
Efficacy: 32.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.4  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.17')  
CIE Type: Direct

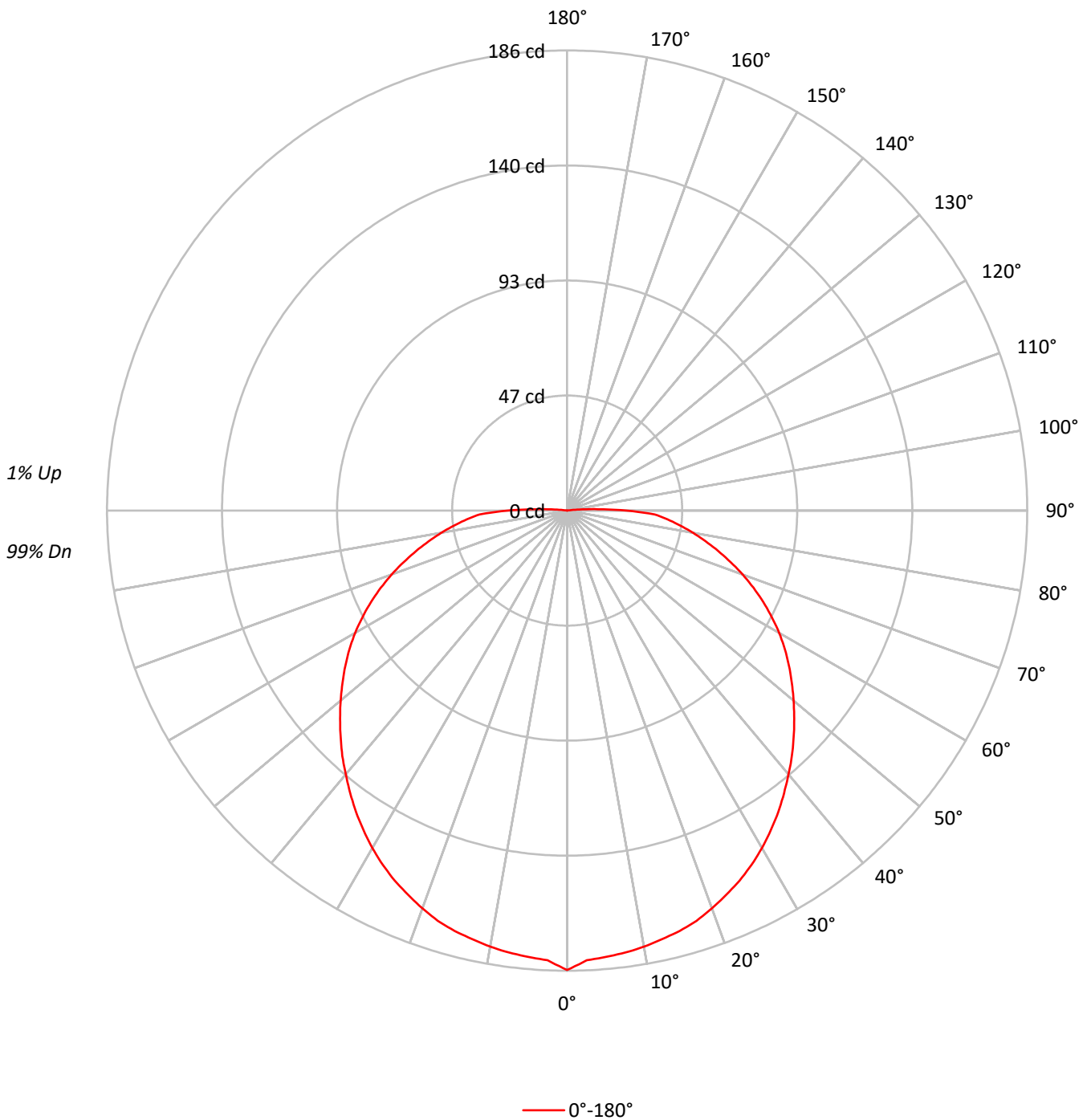
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	63	63	63	62	62	62	62	59	59	59	56	56	56	54	54	54	53
1	56	53	50	48	55	52	49	47	49	47	45	47	45	44	45	44	42	41
2	51	46	41	38	49	44	41	37	42	39	36	40	38	35	39	36	34	33
3	46	40	35	31	44	39	34	30	37	33	30	35	32	29	34	31	29	27
4	42	35	30	26	40	34	29	25	33	28	25	31	28	25	30	27	24	23
5	38	31	26	22	37	30	25	22	29	25	21	28	24	21	27	23	21	20
6	35	28	23	19	34	27	22	19	26	22	19	25	21	18	24	21	18	17
7	33	25	20	17	32	25	20	17	24	19	16	23	19	16	22	19	16	15
8	30	23	18	15	30	22	18	15	22	18	15	21	17	14	20	17	14	13
9	28	21	16	13	28	21	16	13	20	16	13	19	16	13	19	15	13	12
10	27	19	15	12	26	19	15	12	18	15	12	18	14	12	17	14	12	11

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

	0°
0°	21538
5°	20004
10°	19012
15°	18123
20°	17244
25°	16396
30°	15551
35°	14710
40°	13884
45°	13134
50°	12423
55°	11767
60°	11098
65°	10333
70°	9496
75°	8572
80°	7657
85°	6723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.2	2.7	1.4
10°-20°	49.7	7.8	4.1
20°-30°	76.1	11.9	6.3
30°-40°	93.1	14.6	7.8
40°-50°	100.1	15.6	8.3
50°-60°	98.0	15.3	8.2
60°-70°	86.6	13.5	7.2
70°-80°	66.9	10.5	5.6
80°-90°	43.6	6.8	3.6
90°-100°	8.3	1.3	0.7
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°	142.9	22.4	11.9
0°-40°	236.1	36.9	19.7
0°-60°	434.1	67.9	36.2
0°-90°	631.2	98.7	52.6
90°-120°	8.3	1.3	0.7
90°-150°	8.3	1.3	0.7
90°-180°	8.0	1.3	0.7
0°-180°	639.5	100.0	53.3

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	186	
5°	181	17
15°	176	50
25°	165	76
35°	149	93
45°	130	100
55°	110	98
65°	88	87
75°	63	67
85°	41	35
90°	24	13
95°	5	3
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	185.7
2.5°	181.9
5°	181.1
7.5°	180.2
10°	179.0
12.5°	177.4
15°	175.9
17.5°	173.9
20°	171.1
22.5°	168.1
25°	165.0
27.5°	161.4
30°	157.5
32.5°	153.2
35°	148.8
37.5°	144.0
40°	139.2
42.5°	134.5
45°	129.5
47.5°	124.5
50°	119.5
52.5°	114.5
55°	109.5
57.5°	104.4
60°	99.0
62.5°	93.3
65°	87.5
67.5°	81.5
70°	75.5
72.5°	69.3
75°	63.2
77.5°	57.3
80°	51.6
82.5°	46.0
85°	40.7
87.5°	35.4
90°	24.0
92.5°	12.5
95°	4.9
97.5°	0.9
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)