

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: 258p109

Luminaire Tested: **H571RICAT-18WCF-5051PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 258p109
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H571RICAT-18WCF-5051PS
Description: 5" RECESSED DOWNLIGHT, 18W CF, CONE WITH 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: 436.8 lumens
Efficiency: 36.4%
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

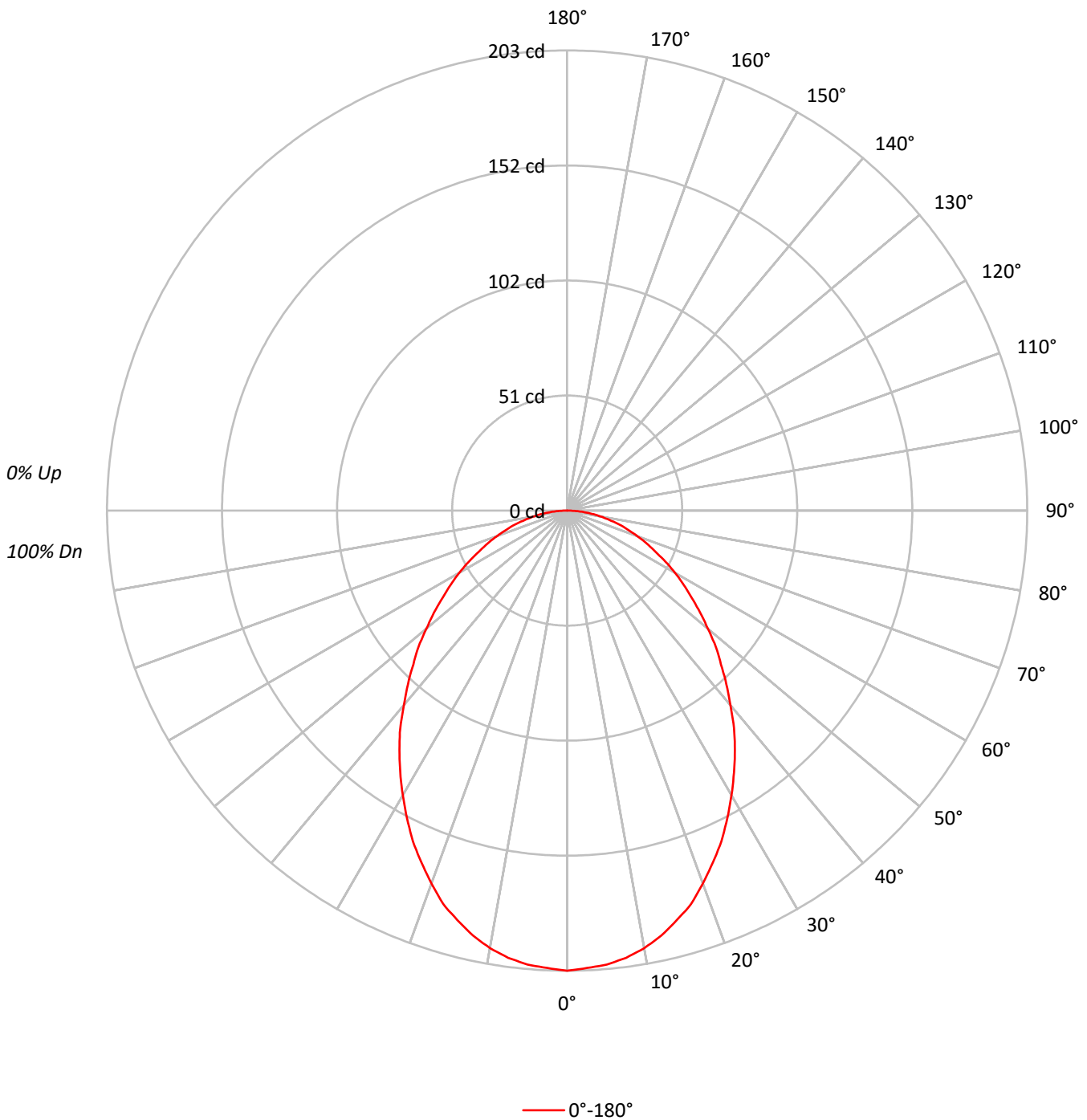
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	43	43	43	43	42	42	42	42	40	40	40	39	39	39	37	37	37	36
1	40	38	37	35	39	37	36	35	36	35	34	34	34	33	33	32	32	31
2	36	34	31	29	36	33	31	29	32	30	28	31	29	28	29	28	27	26
3	33	30	27	25	33	29	27	25	28	26	24	27	25	24	26	25	23	23
4	31	27	24	21	30	26	23	21	25	23	21	24	22	21	24	22	20	20
5	28	24	21	19	28	24	21	19	23	20	18	22	20	18	22	20	18	17
6	26	22	19	16	26	21	19	16	21	18	16	20	18	16	20	18	16	15
7	25	20	17	15	24	20	17	15	19	16	15	19	16	14	18	16	14	14
8	23	18	15	13	22	18	15	13	18	15	13	17	15	13	17	15	13	12
9	22	17	14	12	21	17	14	12	16	14	12	16	14	12	15	13	12	11
10	20	16	13	11	20	15	13	11	15	13	11	15	12	11	14	12	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17756
5°	17649
10°	17408
15°	16934
20°	16290
25°	15538
30°	14645
35°	13775
40°	12789
45°	11875
50°	11022
55°	10217
60°	9622
65°	8900
70°	8440
75°	8111
80°	7556
85°	7025



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.0	4.4	1.6
10°-20°	52.6	12.0	4.4
20°-30°	73.9	16.9	6.2
30°-40°	80.6	18.4	6.7
40°-50°	74.3	17.0	6.2
50°-60°	60.3	13.8	5.0
60°-70°	43.0	9.9	3.6
70°-80°	25.1	5.7	2.1
80°-90°	8.0	1.8	0.7
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°	145.5	33.3	12.1
0°-40°	226.1	51.8	18.8
0°-60°	360.7	82.6	30.1
0°-90°	436.8	100.0	36.4
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°	436.8	100.0	36.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	203	
5°	201	19
15°	187	53
25°	161	74
35°	129	81
45°	96	74
55°	67	60
65°	43	43
75°	24	25
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	203
2.5°	202
5°	201
7.5°	199
10°	196
12.5°	192
15°	187
17.5°	182
20°	175
22.5°	168
25°	161
27.5°	153
30°	145
32.5°	137
35°	129
37.5°	121
40°	112
42.5°	104
45°	96
47.5°	89
50°	81
52.5°	74
55°	67
57.5°	61
60°	55
62.5°	49
65°	43
67.5°	38
70°	33
72.5°	28
75°	24
77.5°	19
80°	15
82.5°	11
85°	7
87.5°	4
90°	0

(END OF REPORT)