

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: 267p114

Luminaire Tested: **H271ICAT-18TTT-370W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p114
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H271ICAT-18TTT-370W
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 18CF WITH REGRESSED
ALABALITE LENS WITH WHITE BAFFLE
Light Source: ONE - F18TBX/SPX27 - 1200 LUMENS - 18 WATTS
Ballast/Driver: CBT213L-120B

Summary

Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 370.2 lumens
Efficiency: 30.8%
Efficacy: 19.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

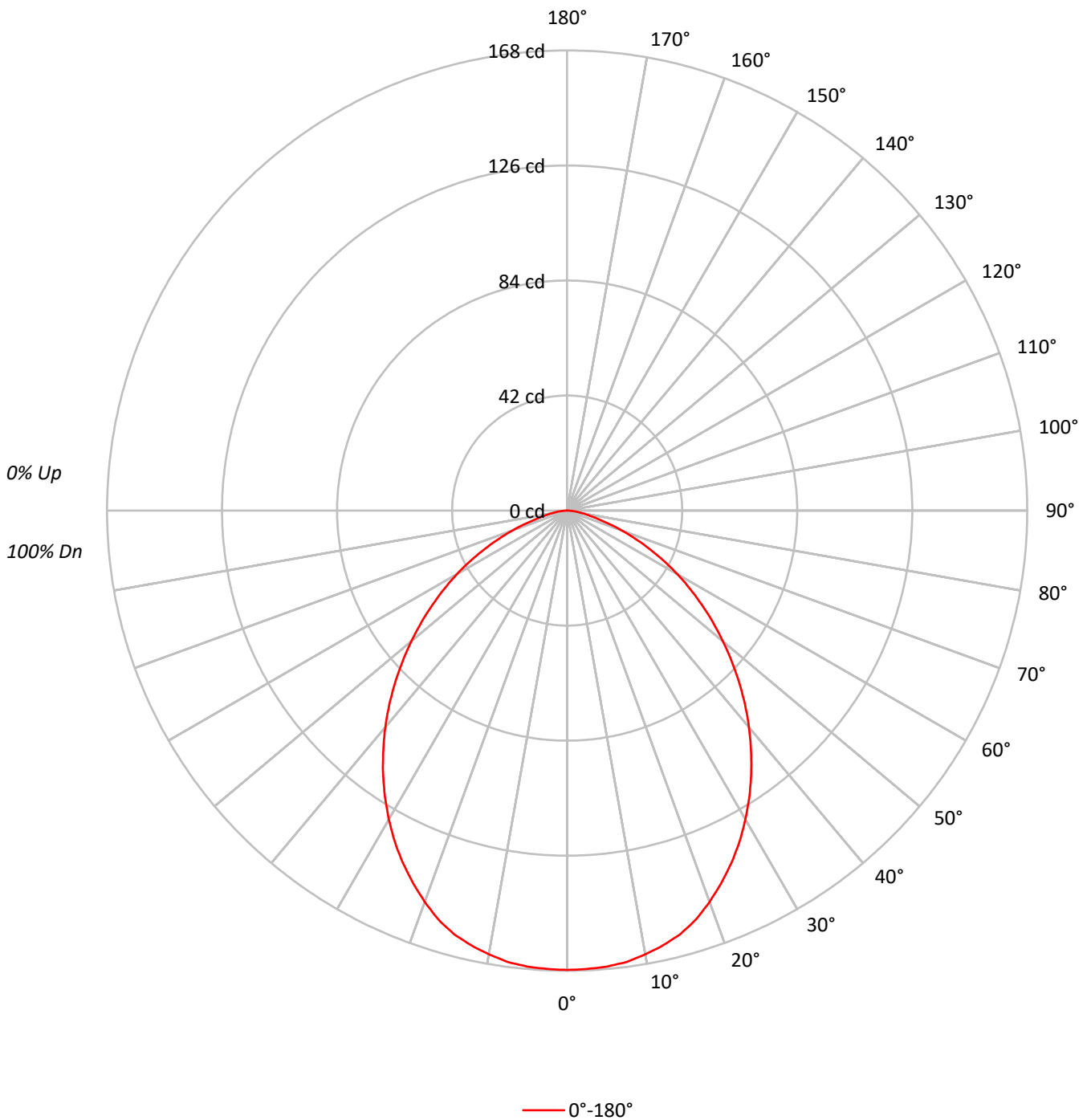
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: H2711CAT-18TTT-370W

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12008
5°	12010
10°	11960
15°	11860
20°	11582
25°	11211
30°	10765
35°	10244
40°	9655
45°	8992
50°	8265
55°	7503
60°	6659
65°	5642
70°	4459
75°	3126
80°	2433
85°	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	15.9	4.3	1.3
10°-20°	45.0	12.2	3.7
20°-30°	65.2	17.6	5.4
30°-40°	73.2	19.8	6.1
40°-50°	68.5	18.5	5.7
50°-60°	53.8	14.5	4.5
60°-70°	33.1	8.9	2.8
70°-80°	12.8	3.5	1.1
80°-90°	2.8	0.7	0.2
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°	126.1	34.1	10.5
0°-40°	199.3	53.8	16.6
0°-60°	321.5	86.8	26.8
0°-90°	370.2	100.0	30.8
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°	370.2	100.0	30.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	168	
5°	167	16
15°	160	45
25°	142	65
35°	117	73
45°	89	68
55°	60	54
65°	33	33
75°	11	13
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	167.7
2.5°	167.5
5°	167.1
7.5°	166.2
10°	164.5
12.5°	162.5
15°	160.0
17.5°	156.5
20°	152.0
22.5°	147.1
25°	141.9
27.5°	136.3
30°	130.2
32.5°	123.8
35°	117.2
37.5°	110.3
40°	103.3
42.5°	96.1
45°	88.8
47.5°	81.5
50°	74.2
52.5°	67.1
55°	60.1
57.5°	53.2
60°	46.5
62.5°	39.8
65°	33.3
67.5°	27.0
70°	21.3
72.5°	15.9
75°	11.3
77.5°	8.0
80°	5.9
82.5°	4.1
85°	2.3
87.5°	0.8
90°	0.0

(END OF REPORT)